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Fulton, Elora A.	97	57 00 57 06	Curry, Alice B.	20	19 00
Fulton, Mary E.	84	49 40	Dennis, Agnes M.	44	45 00
Gates, Lena M.	102	60 00	Douglas, Fred A.	102	$\begin{array}{c} 45 & 00 \\ 45 & 82 \\ 8 & 80 \\ 45 & 00 \\ 45 & 00 \\ 15 & 00 \end{array}$
Gillis, Simon P.	101	59 41	Douglas, Havelock G.	102	5 00
Goode, Myrtle M.	97	57 06	Downing, Florence C.	$\begin{array}{c} 20 \\ 102 \end{array}$	40 00
Grant, Jessie M.	101	59 41	Doyle, Ágnes C. M.	102	40 18
Gray, Gracie L. Greenwell, Bertha L.	97	$57 \ 06$	Fox, Édith I.	97	42 56
Gunn, Annie.	$\begin{array}{c} 102 \\ 102 \end{array}$	60 00	Fraser, Lulu F.	101	45 25 00 78 65 78 00 78 65 78 60 78 65 78 66 78 66 78 66 78 70 78 66 78 70 78
Haverstock, Alice M.	102	$\begin{array}{ccc} 60 & 00 \\ 60 & 00 \end{array}$	Fife, Magdalen M.	102	42 56
Hawkins, Viola S.	102	60 00	Gillis, Jennie M.	97	44 78
Herdman, William C.	102	60 00	Gillis, Margaret.	101	42 00
Kerr, Mary E.	97	57 06	Graham, Bessie F.	97	40 78
Kilpatrick, Hattie.	102	60 00	Grattan, A. Myrtle. Greig, Ida H.	$102 \\ 07$	4. 78
Xinley, Florence.	102	60 00	Hamilton, Agnes E.	97 97	42 78 42 00
Anickle, Charles.	102	60 00	Harris, Gladys E.	102	45 00
Lawley, James H.	102	60 00	Hartigan, Katherine.	102	44455000058811600118
ewis, Florence O.	102	$60 \ 00$	Johnston, Mary C.	102	$ \begin{array}{r} 45 \\ 36 \\ 38 \\ 42 \\ 44 \\ 96 \\ 44 \\ 96 \\ \hline 78 \\ 44 \\ 96 \\ 78 \\ 44 \\ 96 \\ 78 \\ $
facdougall, Jean.	.97	57 06	Kelly, Amy R.	87	42 11
facdougall, Jessie L.	$102 \\ 0.2$	60 00	nowlton, Edith.	97	44 06
IcDougall, John.	97 97	57 06	McCabe, Georgie.	100	33 00
Iacintosh, Anna B.	97 07	57 06	MCCarthy M Kilell	77	45 11
IcKay, Katherine.	97 97	57 06	McCormack Katherine	102	44 78
lacKinnon, Mary. IcLean, Christena.	97 102	57 06		100	42
IcLean, Tina.	23	60 00	Macdonald, Daisy F. Macdonald, Daisy F.	97	
	~,	13 53	Macdonald, Ethel M.		

	5000		He o chi i o i i.		-
MacDonald, Jean F. MacDonald, Lola					
MacDonald, Jean F. MacDonald, Lola. MacDonald, Nellia	07	49 70			07 65
JacDonald, Jean F. Jacdonald, Lola. MacDonald, Nellie Macdonald, Sadie F	97	$\begin{array}{c}42&78\\45&00\end{array}$	Campbell, Florence M.	94	27 65
Man Mald NT III	$102 \\ 07$	$43 \ 00 \ 42 \ 78$	Campbell, Maude L.	7	206
Macdonnell, Sadie E. McInnis, Dorothea J	97	$\frac{42}{45} \frac{78}{00}$	Carlin, Mary M.	97	28 53
McInninell, Thereas	102	44 56	Carmichael, Jessie	102	30 00
ant to how the out	101	45 00	Coady, Margaret A.	-90	26 47
dial. Stil. Ma	102	43 66	Crewe, Myra A.	102	30 00
MAL WE SHOULD	99	44 56	Dillon, Agnes W.	102	30 00
	101	42 78	Downing, L. Minnie Egan, Carlotta	82	24 12
	97	44 11	*Farrell, Hugh	$99\frac{1}{2}$	29 26
	$100 \\ 07$	42 78	Francis, Hildred O.	$\frac{102}{102}$	$\begin{array}{c} 40 & 00 \\ 30 & 00 \end{array}$
	97	45 00	Gannon, Mary	97	$\frac{30}{28}$ $\frac{50}{53}$
	.102	45 00	*Gillis, Rose A.	102	40 00
McLean Christing V		44 56	Gouthro, Veronica	83	$\frac{40}{24}$ $\frac{00}{41}$
	101	$\frac{14}{44}$ 56	Granger, Catherine I.		$\frac{24}{1}\frac{41}{47}$
	101	45 00	Horton, Annie	102	30 00
	102	44 11	Kerr, Annie	102	
MacLeod, S. Agnes. MacLeod, Cecilia I. MacLeod, Tena H. MacNeil, Alexander. McPhee, Annie L. Merhee, Annie	100	41 45	Kerr, Annie F.	102	30 00
	94	41 40 42 78	Kerr, Flora	91	$ \begin{array}{r} 30 & 00 \\ 26 & 77 \end{array} $
Well, Annie L. Mephee, Annie L. Merritt, Mary. Milburn, Verna	97	$42 73 \\ 45 00$	MacCormick, Mary	80	23 53
Milburn, Verna. Moore, Elizabeth	102	$45 \ 00 \\ 45 \ 00$	McDonald, Anna F.	76	$\frac{23}{22}$ $\frac{35}{35}$
March Hitter and	102	$45 00 \\ 45 00$	Macdonald, Cassie	100	$22 \ 33 \ 29 \ 41$
Morrison	102	$45 \ 00 \\ 45 \ 00$	Macdonald, Elizabeth	102	30 00
	$102 \\ -50$	$\frac{45}{34}$ $\frac{00}{84}$	MacDonald, Mary C.	102	30 00
Wusher, Margaret. Muscah, Margaret. Nicholson, M. Vance. Philipe, Katie E.	79	45 00	McDonald, Mary J.	102	30 00
Philolaon	102	$43 \\ 42 \\ 78$	MacDonald, Minnie F.	85	25 00
Philips P. M. Vanas	97		McDonald, Sarah	$96\frac{1}{2}$	$28 \ 38$
Pillan Alatie F	101	$\begin{array}{c} 44 & 56 \\ 42 & 78 \end{array}$	McDougall, Mabel	91^{-1}	26 77
Bride, Caller,	97	42 10 45 00	MacGillivray, Jessie	68	20 00
Rol, Maneste.	102	$45 00 \\ 45 00$	*McGlashen, Nan	75	$\frac{1}{29}$ $\frac{1}{41}$
	102	$\begin{array}{c} 45 & 00 \\ 44 & 56 \end{array}$	*MeInnis, Maggie	20	7 84
J	101	44 50 45 00	*MacInnis, Margaret M.	93	36 47
Robinson, Hattie L. Rose, Lenora. Suppo, May	102	$45 \ 00 \ 45 \ 00$	MeIntvre, Mary L.	91	2677
Kose, E. May. Stass, E. May. Simpson, Margaret J. "Francis Leon "Marcis Leon	102	$43 \ 00 \ 42 \ 78$	McIsaac, Margaret	97	$\frac{1}{28}$ 53
1 Am "Karot T	97		McIver, Lizzie	102	$\frac{20}{30}$ 00
Francis Leon.	102	$\begin{array}{c} 45 & 00 \\ 44 & 56 \end{array}$	McKenzie, John K.	$1\bar{3}$	3 82
M. Ambrose.	101	$44 50 \\ 45 00$	Mackenzie, Katherine	100	29 41
(mbr	102	45 00	MacKenzie, Lottie	102	30 00
" " Angelorum.	102	44 56	Mackenzie, Margaret	102	30 00
" " Annina.	101	45 00	*McKenzie, Teresa	101	39 61
	102	44 56	MacKinnon, Jessie M.	96	28 24
" " Eulalia.	101	44 56	*McKinnon, Martin W.	52	20 39
	101	44 11	MacKiunon, Sadie M.	97	$28 \ 53$
	$100 \\ 48$	21 16	MacLean, Myrtle L.	69	20 29
" "Leonard.	101	44 56	Maclean, Rachael	85	$25 \ 00$
Leonard.	101	45 00	McLellan, Mary	61	17 94
" " Lucina.	102	45 00	McLellan, Mary A.	$10\overline{2}$	30 00
" Stand.	102	45 00	McLeod, Margaret	100	$29 \ 41$
Verhen.	101	44 56	McLeod, Sarah	$\tilde{102}$	30 00
WinettCa	100	44 11	McMaster, John	97	$\frac{30}{28}$ 53
St	102	45 00	East Bay Consolidation		20 00
Alexadric.	97	42 78	3 D.	97	85 59
	102	45 00	*MacMillan, Malcolm		29 80
Hor va.	93	41 01	MacMillan, Victoria K.	76	$29 80 \\ 26 47$
" "Henedine.	102	45 00	McNeil, Katie J.	90 98	28 83
Ster S. Mars V.	102	45 00	MacVicar, Annie	98 88	25 89
Stetter Recella.	97	42 78	Madower, Henrietta J.	84 84	2471
Salker, Appinald.	97	42 78	*Matheson, Flora C.	88	34 51
	12	5 29	Mattatall, Florence	87	25 59
b. well y welling well 1	102	45 00	Morrison, Jessie A.	96	28 24
Bayene, Elizabeth J. Batene, Maude A. Bren, Margaret M. Broden, Maude E. Browner, Flore	43	18 96	Morrison, Lottie M.	79	$23 \ 23$
	47	13 82	Morrison, Margaret M.	66	19 41
TOWNER, Ande E.	74	$ \begin{array}{c} 13 & 82 \\ 21 & 76 \end{array} $	Munn, Ella M.	100	$29 \ 41$
Brotenian, Margaret M. Broterick, Anude E. The Meadowner, Florence V	91	26 77	Nickerson, Margaret J.	82	$24 \ 12$
1 Dadowa Cover V	86	$20 71 \\ 25 30$	Nicoll, Pearl W.	42	$12 \ 35$
orodenic, Mande E. Browner, Annie The Meadows Consolidat	ion	20 00	O'Handley, Joanna	97	28 53
	129	37 94		88	25 89
		01 01			

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				102	60 00 60 00
Ross, Margaret M.	102	30 00	Smith, Margaret J.	102	60 00 60 00
Sampson, Clara M.	102	30.00	Walker, Jean R.	102	
Scott, Mary A.	102	$30_{-}00_{-}$	Young, Nellie B.	$102 \\ 102$	15.0%
Sister M. Thomas	101	29.71	Archibald, Janet	102	50
1 10, 23,1111	97	$\frac{28}{53}$	Archibald, Jessie D.	102	45 00 45 00
	93	27/36	Archibald, Maynard B.	$102 \\ 102$	
r rances	97	28 53	Brown, Bertha M.	102	
(TRODV)	97	28 53	Clarke, Janet G.	102	
mary	.97	28.53	Cox, Janet R.	102	
Smith, Christena	100	29 41	Crowe, Bella	102	45 00 45 00
Stuart, John M.	.88	25/89	Davis, D. G.	102	
Sullivan, Marie	102	30 00	Dawson, Agnes E.	83	30 00 45 00
Sullivan, Martha		27.65	Dickie, David L.	102	43 °.a
VanTassell, Bertha S.	102	30 00	Drysdale, Carrie M.	102	
*Walker, Sarah B. Wallace, Jean		26 27	Fox, Bertha	95	15 00
*Way, Henrietta F.	$rac{102}{75rac{1}{2}}$	$\frac{30}{20}$ $\frac{00}{61}$	Fulinore, Della M.	102	45 00 43 01 41 00
*Wilmot, Mary		29 61	Gammell, Janet	- 98	11 03
· winnoo, mary	76	29/80	Graham, Ida	93	11 (N) 13 30 14 30
1			Guild, Jean	102	11 50
ANNUITAN	NTS.		Hutchinson, Grace	101	11
M-Theory II T			Logan, Jessie B.	101	++ 50 ++ 50 00
McDonald, Joseph		$60 \ 00$	Miller, Agnes	101	15 00
Garrett, Charles V.		$45 \ 00$	Meadows, Pearl	102	16 V.
McDougall, Philip		45 00	Mellish, Mary	102	36 10
McMillan, Fanny		30,00	McIntosh, Agnes	82	
			McKay, A. Olivia	100	34 8
Assistan	TS.		McKay, Beatrice	79	43 4
			O'Brien, Maggie	98	23 81
Macdonald, Joanna	97	$19 \ 02$	Pearson, Mary G.	54	29 41
			Turner, Josephine	100	30 (1)
	-		Archibald, Bertha J.	102	29 7
			Brentoń, Mabel	101	20 1
COLCHE	STER.		Bryson, Ethel	68	434229070100
A			Chisholm, Agnes	87	17 00
South Colch	ESTER.		*Davis, Mabel L.	58	0300700311776474070047 1943029388429982982982985
	. –		Christie, Stella	10^{2}	21 00
Archibald, G. G.	97	85 59	Crowe, Tressie M.	62	30 10
Creelman, W. A.	$102 \\ 07$	90.00	*Fulton, Sarah M.	102	20 1
England, Harry E.	97	85 59	Gordon, Evelyn	68	29 00
Richardson, Lophemia	$\frac{96}{100}$	84 72	Gourley, Mary Jane	101	30 00
Mosher, Amy	102	$60 \ 00$	Higgins, J. Etta	102	30 53
Barteaux, J. E.	102	$60 \ 00$	Higgins, Mabel J.	102	20 11
Beckwith, Florence	101	59/41	Johnson, Frank M.	97	39 11
Colter, Christina S.	102	60,00	Kavanah, Cecilia	87	29 11
Dickson, Hattie D.	97	$57 \ 06$	*Leek, Nina H.	101	29 61
Edwards, Elizabeth	102	60 00	Lynds, Adelaide	101	39 15
Fitzrandolph, Mary F.	101	59 41		101	2071
Fulton, Lillian M. Henry, Ella K.	102	60 00	*Mingo, Myrtle	70	29 61
Hill, Annie L.	14	$\frac{8}{23}$	*Moore, Bertha L.	101	39 00
Hunter, Jennie A.	101	$59 \ 41$	Morgan, Lizzie	101	30 71
Lavers, Josephine	$102 \\ 109$	60 00	*Murray, Alexandra	102	29 00
Lindsay, Olla M.	102	60 00	McLeod, Susie	101	30 64
Logan, Margaret	101	$59 \ 41$	McLeod, Jennie	102	37 53
MaCundar Buth	102	60 00	Parker, Laura D. B.	96	28 04 38 04 38 11
McCurdy, Ruth	48	$28 \ 23$	TPRALE LE FL.	97	38 41 29 89 25 00 30 00 30
McCleave, R. D.	102	60,00	Rutherford, Julia J.	97	25 84
McKenzie, Agnes	97	57/06	*Sibley, Harriet M.	75	20 00
McKenzie, Georgie	102	$60 \ 00$	*Vance, Flora B.	88	30 00
McLennan, Jennie	102	$60 \ 00$	White J Mabel	102	20
McNutt, Bessie	102	60 00	Whidden Carlotta	102	
McNeil, Bessie J.	102	60 00	Wright, Bertha A.		
McPherson, Margaret	98	-57 65	``		
Nelson, Eda	98	57/65	ANNUITANTS	3.	75 ⁰⁰
Nichols, Harriet	102	-60,00	ANNUTTIN		10
Parker, Helen G.	102	60-00			
Purdy, Pearle	-1	2 35	Calkin, J. B.		

WEST COLCHE	STER.		Murdock, Ethel	102	30 00
United Charles			Murdoek, Ethel McEachern, Lydia McEachern, Janie Mckay, Lena	102	30 00
C ^{valeron} , Guy E. Davidson, Amelia Fulton, Beatrice O	102	60 00	McEachern, Janie	98	28.83
Full abon. I hours	102	60 00	Mckay, Lena	87	$25 \ 59$
Liter Book	102	60 00	Mckay, Lena McLeod, Janie McLanders, Minnie Sutherland, Christie	102	30 00
McLean, Pearl O'Brien, Appi-	102	60 00	McLanders, Minnie	102	30 00
UNDER PARA	$102 \\ 102 $	60 00	Sutherland, Christie	100	29 41
Ster, Appl	102	60 00	* I nompson, Libble May	76	29 80
Therens, Goa	102	60 00	Waugh, Harry H. S.	981	$28 \ 97$
	102	60 00	Weatherby, Stella	102	$30 \ 00$
Will 5 W 12 ~~~	101	$59 \ 41$			
	102	60 00			
Robibald, Ethel Cooke, Agnes P	102	60 00	CUMBERLAN		
Charler (A reader	102	45 00	COMBERLAN	ND.	
Ann Ann	97	42 78	Lay, E. J.	100	
Cowe, Maude Fulton, Elsie L	102	45 00	Morehouse, F. G.	102	$105 \ 00$
քիի, ՝) ՅՈդեսո՞	102	45 00	Smith, Elizabeth	$\frac{102}{102}$	105 00
Johnson, Elsie L. Lightbody, I.izzie M. Morash, Y. Ina B	102	45 00	Tanche, Jos. H.	102	90 00
	102	45 00	Barnes, Blanche	102	90 00
Worash y, Ina D	102	45 00	Blanche, Julia	99	$\begin{array}{c} 60 \\ 58 \\ 23 \end{array}$
	102	45 00	Chapman, Myra	102	60 00
Worash, Jazzie M. Worash, Jabel L. Morrison, Ida M. O'Chrosh, Laura B. Robinell, E. Grace	102	45 00	Charman, Mary E.	101	$59 \ 41$
	102	45 00	Chesley, Carrie	102	60 00
Robbins, Violet Rught, Lulu B	102	45 00	Craig, Jean E.	102	60 00
Reen I, Violet	101	44 56	Crawford, R. D.	99	58 23
Treen, Lulu B. Johnson, Amy	102	45 00	Elliott, Minnie	102	60 00
	102	45 00	Glennie, Emma	102	60 00
	102	30 00	Hall, Georgie	102	60 00
Can' Main	102	$\begin{array}{c} 30 & 00 \\ 30 & 00 \end{array}$	Hill Alice	102	60 00
	102	30 00	Jonks, Winnifred	101	$59 \ 41$
	102	30 00	Lawrence, Jennie	-98	57 65
M. Caller Partie B	102	$\frac{30}{27}$ $\frac{00}{17}$	Lont Irene	97	57 06
Weis, Hattie B. McLaughlin, Nellie O'Brighlin, Erma Ret. O'Brien, Martha S. Stevens, Jennie E.	$\frac{72}{100}$	$\frac{21}{30}$ 00	Lockhart, Lillian	102	60 00
OBrien, Kerna Reta OBrien, Martha S. Stevens, Minerva *Vape, Flore	• •	30 00	McKenzie, Annie J.	102	60 00
Marten Anartha a well	9	$36 \ 47$	MePherson, Laura	102	60 00
Veyen, Jennie E. Stoena, Minerva *Vance, Florence Whyte, Fuby A		30 00	McWilliams, Jessie	102	60 00
TO MA TO MARK	$102 \\ 102$	30 00	Mitchell, Jennie	102	60 00
Vance, Florence Whyte, Ruby A. Great Village C	$102 \\ 102$	30-00	Murray, Annie	102	60 00
Great Early A.	102	36 47	O'Brien, Della	102	60 00
Village	102	30 00	O'Brien, Bertha	102	$60 \ 00$
Indre, Ruby A. Great Village Consolidati	n102	30 00	Ogilvie, Estella M.	102	$60 \ 00$
b	011102		Roney, Effie	102	$60 \ 00$
Faulkener, Nina Ethel Reid, Alice Cairns Craig, Laggie J	1 L		Russel, Jean	102	$60 \ 00$
aulkener, Nina Ethel Beid, Alice Cairns Craig, Jean Drys, Jean			Shortliffe, D. L.	98	$57 \ 65$
Gyers Mice Coin Ethel	46	27 05	Smith, Mamie K.	99	58/23
Taig Laggie I	44	25 88	Stewart, Martha	102	60 - 00
k.yedal	94	$41 \ 45 \ 45 \ 45 \ 45 \ 45 \ 45 \ 45 \ $	Swift, Alice	102	60-00
a ned anet T	102	45 00	Watt, Beatrice	102	60-00
Lassille, Lizzia H.	102	45 00	Baird, Jean F.	$96\frac{1}{2}$	42 56
	82	$\frac{36}{10}$	Beaton, Mary	99	$43 \ 66$
	102	$\begin{array}{c} 45 & 00 \\ 45 & 00 \\ 45 & 00 \end{array}$	Bent, LeReta	102	$45 \ 00$
	102	45 00	Bigney, Bessie	102	45 00
	102	10 00		102	45 00
N. 36. D. 341D	102	$45 \ 00$	Brundage, Kate	102	45 00
proper suppo	92	40 57	Butler, Mamie	101	44 56
*Currie, Maud *Currie, Mariorie Forbes, Olive T	99	43 66	Cameron, Blanche	101	44 56
Forde Men C	102	30 00	Cameron, Donnie	102	$\begin{array}{c} 45 & 00 \\ 45 & 00 \end{array}$
Lances Olioria	102	30 00	Chandler, Isabella	102	45 00
Markille, Juve T	91	35 68	Charman, Eliza G.	102	$43 \ 00 \ 42 \ 34$
Curit, Ellen C. Porbes, Marjorie Langelle, Jive T. Matheson, H	87	34 11	Clarke, Agnes	96 102	45 00
Millall, Henry	102	30 00	Craig, Muriel E.	$\frac{102}{102}$	45 00
Miner, Lill: Maura Ma	90	26 47	Creelman, Jean	102	45 00
To, Editan G.	90	26 47	Currie, Helen S.	102	45 00
Forbes, Marjorie Langes, Olive T. Maghes, Jennie May Mathaon, Henry Mittatall, Laura May Mingo, Edith	73	$ \begin{array}{ccccccccccccccccccccccccccccccccccc$	Dimock, Imogene. Elliott, Ida W.	102	38 80
	101	$29 \ 71$	Ention, rua W.	2. see	00 00

	J				
		•	1		28 53 28 53 23 53 30 00 30 00
Embree, Sara	102	45 00	Dobson, Blanche	97	28 5
Falconer, Jean	102	$45 \ 00$	Dwyer, Ella	97	23 0
Frame, Annie	102	$45 \ 00$	Edgett, Minnie	$\begin{array}{c} 80\\ 102 \end{array}$	30 00
Fraser, Ella J.	67	29 54	Farrell, Annie	102	30 00
Fullerton, Eva L	102	45 00	Fiske, Lalia E.	102	30 53
Fulton, S. J.	102	45 00	Grant, Sadie	80	30 90 30 53 23 00 30 00
Gallager, Adelaide Gates, Gertrude	$101 \\ 92$	44 56	Harrison, Maude	102	
Gibson, Florence E.	100	$\begin{array}{c} 40 \hspace{0.1in} 57 \\ 44 \hspace{0.1in} 11 \end{array}$	Harrison, Evelyn R.	102	30 77 71 29 20 20 20 20 20 20 20 20 20 20 20 20 20
Hanna, Mabel	100	45 00	Hawkins, Emma Hayward, Inez	101	29 2
Harris, Mattie T.	102	45 00	Hennesey, Elva	101	20 00
Harrison, Ermina	102	45 00	Hickey, Lizzie E.	71	30 00
Healey, Teressa	102	45 00	Hunter, Minnie E.	102	30 18
Hall, Mabel	102	45 00	Jameson, Bertha	102	20 0
Hill, Ruby	102	$45 \ 00$	Jeffers, Myrtle	89	30 01
Hunter, Augusta	78	34 40	Johnson, Susie W.	$102 \\ 78$	20 00
Hunter, Lillian	102	$45 \ 00$	Johnson, Edna C.	78 68	20 71
Marchant, Abbie J.	95	41 90	Kleiber, Jessie	101	20 00
McCabe, V. Pearl McDonald, Cross M.	$\frac{102}{70}$	45 00	Kelley, Vera M.	102	30 00
McDonald, Grace Mc. McIntosh, Bella J.	72	31 75	Lamb, Leah M.	102	25 5
Melvor, Ethel	102	45 00	Lindsay, Susie	87	30 00 30 59 25 71 29 00 30 12
McLeod, Georgiana	102	45 00	Leonard, Eliza M.	101	30 12
McPhee, Teressa	100	44 11	Locke, Gladys I.	102	$ \begin{array}{c} 30 \\ 39 \\ 29 \\ 12 \\ 20 \\ 00 \end{array} $
Moreash, Georgina	$102 \\ 81$	· 45 00	Mattinson, Ivey	99	40 00
Morris, Edith L.	1014	$\begin{array}{c} 35 \hspace{0.1cm} 72 \\ 44 \hspace{0.1cm} 78 \end{array}$	McCullum, Alberta M.	10^{2}	$\begin{array}{c} 40 & 00 \\ 30 & 00 \\ 40 & 71 \end{array}$
O'Brien, Fannie	101_{102}^{2}	45 00	*McCully, Florence McDonald, Eileen	102	40 11
O'Brien, Agnes	93	41 01	*McEachren, Margaret	102	29 85
Oxley, Annie	102	45 00	McKay, Ida	101	40 71 29 85 29 00 30 53
Patton, Mary E.	82	36 16	McKay, Margaret	101	18 53
Prowse, Lillian	102	45 00	McKeil, Linda B.	$102 \\ 63$	29 11
Pugsley, Chester	102	45 00	McLaughlin, Verna	101	30 0
Ripley, Ethel	6	264	McLaughlin, Kathleen	10^{-1}	21 .0
Ripley, Daisy	102	45 00	McLean, Pamela	73	27 3
Roach, Bessie	100	44 11	Mitchell, Gertrude	93]	28 00
Robertson, Annie Shipley, Ethel M.	102	45 00	Morrison, Kathleen H.	72	30 00
Smith, Bella A.	$\frac{102}{102}$	45 00	*O'Connell, Irene	102	30 53
Spearing, Alice M.	$102 \\ 102$	$\begin{array}{c c} 45 & 00 \\ \hline 45 & 00 \end{array}$	Oulton, Christena	102	20 00
Sproule, Essic	$102 \\ 102$	$45 00 \\ 45 00$	Patton, Annie Porter, Mary	97	30 00
Sproule, Mabel	102	45 00 45 00	Purdy, Sara A.	102	22 35
Taylor, Arabella	100	44 11	Purdy, Agnes L.	92 76	23 23
Thompson, Fannie J.	97	42 78	Reid, Mae I.	79	30 .0
Trerice, Ruth	102	45 00	Ripley, Russel E.	102	30 00
Baird, Alda C.	102	30 00	Ripley, Jennie	102	30 16
Baker, Sadie G.	102	30 00	Robinson, Margaret M.	102	27 22
Beattie, Jamie Betts, Mina R.	88	25 89	Ross, Jennie	69	23 11
Bird, Elsie	$\frac{102}{53\frac{1}{2}}$	$\frac{30}{15}$ $\frac{00}{70}$	*Ross, Birdie	81	29 53
Bradshaw, Georgina	93^{2}	$egin{array}{cccc} 15 & 72 \ 27 & 36 \end{array}$	Ryan, Beulah M.	101	10 59
Brown, Delia I.	102	30 00	Salter, Josephine M.	63	20 11
*Brownell, Myrtle	$\overline{59}$	$23 \ 13$	Schurman, Nellie	87	20 00
Cameron, Jennie B	102	30 00	Smith, Jennie J.	101	30 53
Campbell, Helen	93	$27 \ 36$	Somers, Lorelei D.	$102 \\ 78$	28 1
Campbell, Annie	102	30 00	Stewart, Lizzie F. *Stromberg, Annie	98	29 03
Carter, Olive	56	16 46	Sutherland, John D.	101	18 00
Chapman, Margaret J.	100	29 41	Sutherland, Katharine	62	30 04
Chapman, May E.	102	30 00	Laggert Lilv W.	102	17 10
*Coulter, Gladys	67	26 27	Taylor, Florence	61	31 00
Creelman, Dean	95	27 94		81	80 83
Crowe, Grace	102	30 00	Thomas Clarker	102	20 50
Davis, Sadie	102	30 00	anduskirk, mark	98 5 5	22 10
Davison, Bertha	102	30 00	willis, Jennie	55	317978789958983399888478919332739847888499 317978789988883399888848878919332738847888499
Dench, Susie Dickinson, Carrie E	97 102	28 53	*Wilson, Annie	$\frac{82}{102}$	J.
Dyas, Mary	102	30 00		100	
June, marry	38]	11 32	Wood, Ruby I: Woodland, Hattie E.		

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PARRSBORO Swanson, Peter J.	•		Hicks, Blanche G.	102	60 00
and I a		107 00	Hogg, Nathaniel W.	102	90 00
Atkinson, Peter I. Boss, Maud V.	102	105 00	Longley, Annie M.	72	$42 \ 35$
	97	$57 \ 06 \\ 60 \ 00$	Longley, Reginald A.	30	17 64
Doss, Maud V. Blanche Cameron, Wyman Hiltz, Aabel	102	60 00	Outhouse, Eva C.	102	60 00
Doyle, Mabel Hiltz, Adels: 1	102	57 65	Ritcey, Mae T. Sister Baptista Maria	102	$\begin{array}{c} 60 & 00 \\ 55 & 20 \end{array}$
Hitz, Mabel Henmeon, Elizabet	98 102	60 00	" M. Madeline	$\begin{array}{c} 94 \\ 102 \end{array}$	$55 \ 30 \\ 60 \ 00$
Henmeon, Elizabeth O'Mullen Wolly	$\frac{102}{102}$	60 00	Troop, Alice M.	49	28 82
UN S Holl "ADOT	102	$59 \ 41$	Turnbull, Bessie B.	102	60 00
	101	60 00	Whitman, Jean E.	102	60 00
Brod Ada II F.	102	60 00	Wilson, Flora E.	102	$60 \ 00$
	102	60-00	Wolfe, Hattie F.	102	$60 \ 00$
Webb Lillian	102	60,00	Baker, Ermina M.	102	$45 \ 00$
ALP 1 419445 -	102	60 00	Baker, Kathleen A.	102	45 00
Atkinson, Jennie	102	60 00	Belliveau, Antoinette Belliveau, Marie A.	102	45 00
Atkinson, Jennie Brownell, Ruby Callage, Mayroc	88	-38 80 $^{\circ}$	Comeau, Amy	$\begin{array}{c} 102 \\ 102 \end{array}$	45 00
bathson', Jennie Brownell, Mayme Callaghan, Lena : Fullerto, Minnie O	102	45 00	Comeau, M. Eugenie	102	$\begin{array}{c} 45 & 00 \\ 45 & 00 \end{array}$
Challen, Mayme Sallen, Lena; Fullerton, Minnie O. Len; Minnie Tu	102	45 00	Crocker, Eva M.	95	41 90
Reletton minnie O	98	$\begin{array}{c} 43 \ 22 \\ 45 \ 00 \end{array}$	Doucet, Adele	102	45 00
Aller, Minnie O. Klerton, Marion T. Lockhart, Annie Pipes, Aamie	$102 \\ 102$	45 00	Doucet Enzabeth	102	45 00
Vuttal, Manie Reid, Augusto	$\frac{102}{102}$	45 00 45 00	Doucet, Jos. P.	102	45 00
be well is annie	102	44 56	Dugus, Aggle	102	45 00
	102	45 00	Gibbons, Grace L.	102	45 00
Way and way	86 1	38 14	Harris, Nellie M.	$\begin{array}{c} 102 \\ 39 \end{array}$	$\begin{array}{c} 45 \\ 17 \\ 19 \end{array}$
	102^{2}	45 00	Harrison, A. Frances	102	45 00
Vaning, Helen B. Vaning, Helen B. Vlorence LeRoy Fraser, Story	102	$45 \ 00$	Hutchinson, Nina B.	102	$45 00 \\ 45 00$
Vannis, Helen B. Norence, Minnie Fraser, Stanley Fulsor, Stanley	98	28 83	LeBlanc, Daniel Letteney, Edith P.	101	$43 \ 00$ $44 \ 56$
A der a enov	97	38 04	Melancon, Rose A.	97	42 78
Galley N anley	29	8 52	Peters, E. Gertrude	102	45 00
raser LeRoy Fulton, Stanley Gallagher, Nellie P Gibert, Perle E. Mott, Perle E. Mott, Wm.	78	30 59	Dothier, Adalline U.	102	45 00
Levert, P. Violet T.	101	29 71	Sonford S. Dery	53	23 37
Lavert, Perle E. Ayton, Wm. Hott, Effic T. Roberts, Jan:	102	$\begin{array}{c} 30 \hspace{0.1cm} 00 \\ 29 \hspace{0.1cm} 71 \end{array}$	Saulnier, Uatherme	102	45 00
H. 1 1 H'00 44.	101	8 23	Shortliffe, Nilla M.	101	44 56
Aberta, Janie M. Roberta, Janie M. Shipte, Mamie E. Spicer, Jessie H.	$\frac{28}{102}$	30 00	Simpson, Florence E.	102	45 00
hiples, Mars.	69	20 29	Simpson, Lulu A.	102	$45 \ 00$
picer, Jessie E.	101	29 71	Sister M. Anthony """ Norbert	102	45 00
Welsh Lydia H.	102	30 00	" " Modesta	29 109	12 79
Royce A	54	15 87	" " Virginia	$\begin{array}{c} 102 \\ 102 \end{array}$	$\begin{array}{c} 45 & 00 \\ 45 & 00 \end{array}$
doberta, Janie M. Shipley, Jassie H. Spicer, Jessie H. Welsh, Royce A.	68	26 67	Stevens, Eudora M.	97	40 00
Bister Mary Ann			Taylor, Addie D.	56	$\frac{12}{24}$ 69
Cister Mare	rs.		Thibault, M. Alma	102	$\frac{21}{45}$ 00
-y Ann		60 00	Thibault, M. Monique	102	45 00
h Con			Thimot, M. Elina	102	45 00
Wentworth	CHOOLS.		Trevoy, Archie H.	102	45 00
Adence	(100=		Walsh, Grace B.	44	19 40
Reatworth Spencer's Island	101	29 71	Young, Agnes M.	102	$45 \ 00$
Dr. Br.	101	29 71	Amirault, Edith S.	102	30 00
	102	$30 \ 00$	Blackford, Lillie D.	102	30 00
			Brown, Vernon E.	102	30 00
>			*Calnek, Anna A.	102	40 00
			Campbell, Lola B.	101	29 85 35 29
Atterson, Mabel G. Belliveau, Catherine Belliveau, Willie J.	•		*Churchill, Allie M. Comeau, Marie Ann	90	30 00
Belliveau, Mabel G. Belliveau, Catherine Carry, Ruperta L. Bett, A. Willie J. Bett, A. W.	102	90 00	Comeau, Marie Rose	$\begin{array}{c} 102 \\ 102 \end{array}$	30 00
	102	60 00	*Cook, Hattie A.	82	32 15
Selfiveau, Catherine Beriveau, Willie J. Caux, Ruperta J. Neet, Sarah J. Hang C. Leon Barta C. Leon	102	60 00	Crocker, Nina B.	102	30 00
Cost of A te L.	97	57 06	Dakin, Guy A.	102	30 00
Bararah J	102	60 00	Denton, Helen A	102	30 00
Geot Sarah J Geot Sarah J Harris, C. Leonard Baylord, Albert C	102	60 00	*Doty, Floris G.	102	40 00
Mord An M.	102	60 00	Doty, Lytna M.	102	30 00
" Albert C	102	60 00	Dugas, Francoise	$\begin{array}{c} 102 \\ 102 \end{array}$	30 00 30 00
Baylord, Albert C.	102	60 00	Franklyn, Alma M.	102	00 00

14	JUUR	NAL OF	EDUCATION.	_	
Combon N. H.	100		T I. Tott inc	102	00700000000000000000000000000000000000
Goreham, Nettie A.	102	30 00	Leydon, Katherine	97	29 90
Gower, Edna E. *Grant, Estella V.	$\frac{102}{102}$	$\begin{array}{c} 30 & 00 \\ 40 & 00 \end{array}$	Munro, Cleophas McNaughton, D. P.	68	45 00
Hersey, Laura B.	$102 \\ 102$	$\frac{40}{30}\frac{00}{00}$	Nash, Gertrude M.	102	45 0
Hiltz, Elizabeth B.	102	30 00	Shanahan, L. J.	$102 \\ 102$	40 60
*Hutchinson, Mary J.	92	36 08	Scott, Catherine L.	$\frac{102}{83}$	30 (1.50
Hutchinson, Maud D.	102	$30 \ 00$	Taylor, Mabel C.	101	41 S
*Jones, M. Eleanor	49	19 21	Walsh, Helen B.	71	21 4
Lambertson, Myrtle F.	49	14 40	Brown, Sadie M.	73	25 0
*Lambertson, Pearl E. Lawrence, Charlotte P.	$102 \\ 54$	$\begin{array}{c} 40 \hspace{0.1cm} 00 \\ 15 \hspace{0.1cm} 87 \end{array}$	Boyd, Elfreda Callahan, Maud H.	86	29
*LeBlanc, Sarah	102	40 00	Forrestall, Mary	100	
LeBlanc, Symphorien	102	30 00	Fraser, William	$\frac{32}{102}$	$ 30 s^{-1}_{30} $
*Lewis, Jessie M.	98	38 43	Grant, Jennetta M.	102 90	30 00
Lombard, Marie A.	102	30 00	Girrior, Beatrice E.	102	20
Mack, Annie L. *Marshall, Annie M.	$102 \\ 83$	$\begin{array}{c} 30 & 00 \\ 32 & 55 \end{array}$	Goodwin, Leda M.	69	26
Melancon, Leonie A.	101	$\frac{32}{29} \frac{33}{71}$	Gillis, Minnie Howard, Ruth W.	90	30 2 26 2 19 5 30 0
*Mullen, Annie L.	1013	$\frac{29}{39}$ 81	*Howard, Mrs. Sadie	49	25 00
Prime, Lenetta	102	30 00	Hurst, Lila M.	88 102	
Rice, Olive A.	73	$21 \ 47$	Jones, Clara M.	$\begin{array}{c} 102 \\ 102 \end{array}$	30 55 32 00
Ring, Viva M.	102	$30 \ 00$	Jameson, Bessie G.	83	32 00 40 00
Robichaud, Emily	$102 \\ 100$	30 00	*Johnson, Agatha	102	30 10
Robichaud, Eveline Robichaud, Marie M.	$102 \\ 102$	$\frac{30}{20}$	*Kelly, Mary	102	$\begin{array}{ccc} 30 & 00 \\ 30 & 00 \\ 40 & 00 \\ 10 & 00 \end{array}$
Sister M. Gonzaga	$\frac{102}{102}$	$\begin{array}{c} 30 & 00 \\ 30 & 00 \end{array}$	Kennedy, Lena C. Kennedy, Mary T.	102	
" F. Paula	73	$\frac{30}{21}$ $\frac{00}{47}$	*Morgan, Kate L.	$102 \\ 102$	30 7
Snow, Lennie M.	102	30 00	Morgan, Emma	101	39 21
*Surette, Mary M.	99 1	39-02	Meagher, Stella M.	100	33 1
Suthern, Lois B.	102	30 00	*Malloy, Orries B.	86	24 58
Taylor, Sophia M. Theriault, Symphorien	$\frac{102}{102}$	$\begin{array}{c} 30 & 00 \\ 30 & 00 \end{array}$	*Murphy, Annie Mugon Emma	83	19 39
*Trask, Lizzie B.	91	35 68	Mason, Emma Macdonald, Angus B.	53 93	97977788888777888 97977788888777888
Thurber, Bessie G.	102	30 00	McGregor, Anna R.	102	39 6
Wetmore, Flora E.	102	30 00	O'Hara, Alice	101	36
Young, Ermina V.	102	30 00	*Purcell, Jennie A.	93	26 00
1			*Rogers, Mary Ellen	91	30 00
ANNUITANT	ю.		Strahan, Mary A. Spanks, Elora J.	$\begin{array}{c} 102 \\ 102 \end{array}$	$30 \\ 30 \\ 30 \\ 35 \\ 35 \\ 35 \\ 35 \\ 35 \\ $
Goodwin, Emma M.		45 00	Worth, Marion S.	102	35 27
Sister M. Ursula		45 00	Worth, Josie Laura	90	C C
Smallie, Mary		30 00	*Worth, Anna Belle		
		l	ANNUITAN	TS.	20 00
		ļ			30 00 30 00
GUYSBOR	2 0 .		Hanifen, Maggie Taylor, Mrs. Anne		
Beattie, Frank H.	100	102 93		r'S.	00 00
Evans, Laura F. Brown, Mabel	$\frac{102}{102}$	75 00	ST. MARY		60 00 NA 10
Carmichael, D. E.	102	60 00		$\begin{array}{c} 102 \\ 102 \end{array}$	60 00 45 00 45 38
Courteen, Violet	96	$\begin{array}{c c} 60 & 00 \\ 56 & 47 \end{array}$	Aikens, Charles E. Bont Loure F	$102 \\ 102$	45 06
Cousins, Leah	102	60 00	Bent, Laura F. Bent, Georgina F.	10^{2}	38 00
Dillon, Eva	102	60 00	Balcombe, Florence	87	45 00
Dennison, Gertrude Alice Hadley, Marion S.	102	60 00	Corneally, Lottie G.	102	40 18
Hurst, Blanche	102	60 00	Hattie, John D.	102 97	12 70
Kavanagh, Florence E.	$102 \\ 102$	$\begin{array}{c c} 60 & 00 \\ 60 & 00 \end{array}$	Hewitt, Martha	97 97	29 4
McGillivray, Amelia	$\frac{102}{101}$	$\begin{array}{c} 60 & 00 \\ 59 & 41 \end{array}$	Jenkins, Georgina C.	68	45 58
McMillan, Janet C.	101	60 00	Park Marion	102	15 00
Ross, Katherine J.	102	60 00	Stewart, Robert A. S.	53	30 19
Brown, Mary	102	45 00	Archibald James	102	14 4
Fraser, Ida J.	102	45 00	Ashton, Maud E. W.	77 50	38 50 00 76 76 50 0 58 00 19 76 50 0 58 00 19 76 50 00 58 00 19 76 50 00 14 12 12 12 12 12 12 12 12 12 12 12 12 12
Hanifen, Margaret M. Hadley, Agatha A.	94	41 45	*Balcombe, Lucy	55	-
Kennedy, Annie M.	$102 \\ 69$	$\begin{array}{c c} 45 & 00 \\ 30 & 42 \end{array}$	Cameron, John A. *Chisholm, Jessie M.		
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Caper -	·····				
raser, Rosie E. unn, John S. H. artling, Jamon W.	34	10.00			e0 0
artling, James H. CQuarrie, Sadio E.		10 00 18 99	Flowers, H. L.	102	-60.0
CQuarrie, Sadie E. Smith, Mabel	$\frac{62}{102}$	$\begin{array}{c}18&23\\-30&00\end{array}$	Frances, Sr.	102	-60.0
Cephie, Sadie E. Smith, Eve			Frye, B. E.	102	60 0
Wrhie, Wabel Smith, Eva Isabel Wilson, Nellie	102	$\frac{30}{20}$ 00	Gaul, R. E.	102	60 0
IN I TWO T	97	$\frac{28}{24}$ 53	Gervase, Sr.	102	-60.0
Wilson, Hannah F.	88	$\frac{34}{30}$ $\frac{51}{30}$	Grant, M. L.	102	60-0
Higon, Hanning	102	30 00	Greig, G. S.	102	60 0
-unnah F.	90	35 29	Harlow, A. C.	102	60 0
			Harlow, A. O.	20	11.7
	_		Hazle, E. M.	102	60 0
			Kelly, J. M.	102 -	60 0
HALIF	ΔX		Kelly, Mme.	102	60 0
	1		Laracy, A. X.	102	60 0
CITY.			Leontine, Sr.	102	- 60 õ
CKav , CITY.			Maria, Sr.	102	-60.0
CITY. orton, S. A. ogan, J. W	60	94 70	Marshall, L. E.	102	-60.0
	92		Mason, B. E.		
gan, J. W. ackintosh, S. K. angros, J. H.	97	85 59	Mortimer, J. W.	102	60 0
	97	85 - 59	MORTHER, 5. W.	102	60 0
ano, J. H. K.	97	85 59	O'Brien, M. A.	102	60 0
	97	85 59	Phelan, M. F.	102	60 0
erry, J. H. ancroit, G. R. ghers, F. A. acDonald T.	97	$57 \ 06$	Pius, Sr.	102	60 0
over P	97	57 06	Publicover, L. D.	102	60 0
U ODAL	39	22 93	Rankine, A. B.	102	60 0
Ney, G D, E. M.		42 78	Richardson, R.	102	60 0
	97	42 10	Ross, E. D.	82	48 2
Ney, G. B. Jolg, H. H. uther, G. K. varistus, E. upp: upp:	58	90 00	Ross, E. J.	102	-60.0
mmine K.	102		Sanders, A. K.	78	45 8
unmings, E. Varistus, Sr. Ugging, G. M	102	90 00	Sanders, K. O.	102	60 0
URPINS, Sr.	102	75 00	Saunders. A. C.	102	60 0
varistus, E. uggins, Sr. arshall, G. M. urray, G. P.	97	85 59	Shields, E. G.	$102 \\ 102$	-60.0
Urall, G. D	102	$75 \ 00$	Smelus, 12. Cl.	$102 \\ 102$	
ACAV 16 146.	102	90,00	Shields, S. W.		= 60.0
N 1410 N 101	102	$75 \ 00$	Sims, S. A.	102	60-0
N 14. S.	$102 \\ 102$	90-00	Spencer, A.	102	60 0
seaire, Sr. Rnes, Sr. Rnita, Sr.	97	85 59	Spencer, E. M.	102	60 0
enes, Sr. Enita, Sr. Len, M. F.	102	60 00	Sullivan, Mme.	102	60 0
He. TINE		60 00	Theakston, 11. S. F.	102	60 0
	$102 \\ 102$	60 00	Tullock, M. E.	102	60 0
mand D	102		Thompson, F.	102	60 0
chibald.	102	60 00	Tynan, J. C.	102	60 0
nand, E. rchibald, E. mitage, F. M.	102	60 00 co 00	Wakely, A. C.	102	60 0
ever E. F. M	102	60 00	Whalen, A. T.	$102 \\ 102$	60 G
erchroff. M.	102	60 00	Wiswell, I. M.	$102 \\ 102$	
"chibald, S. M. maitage, S. M. ayer, H. M. erchmans, Sr. owden, I. M	102	60 00	Woolrich, M. E.		60 0
	102	60 00		$102 \\ 102$	60 0
	102	60 00	Xavier, Sr.	102	60 0
	102	60 00	Ackhurst, M. L	102	45 G
a 10 D	10^{-1}	60 00	Ancient, F. S.	102	45-0
rodie, I.	102	$60 \ 00$	Baker, G. H.	102	45 0
codie, 1. D. cown, 1. cown, E. R. coutil: M. T.	102	60,00	Bayer, A. L.	102	45 (
N 740 DN	102	60 + 00	Blois, E. H.	102	45 (
Outor M T	$102 \\ 102$	60 00	Broadhurst, M. E.	102	
	102	60 00	Catherine, Sr.		45 (
144 Q 14, I	102	60 00		102	45 (
calia, Sr. Japman, E. L. Incepta, Sr. echnigham			Christina, Sr.	102	45 (
heepta, E. L	$102 \\ 102$	60.00	Clark, E. M.	102	45 (
ncepta, E. L. unningham, Sr. eChantal, Sr. elahantal, Sr. M. empagy, K.	102	60 00	Clement, Sr.	102	45 0
whanten, A	102	60 00	Conrad, E. M.	102	45 0
Mante Sr M.	102	60 00	Cunningham, E. S.	102	45 0
A 1 180 1 1 A	97	$57 \ 06$	Curren, E. M.	102	45 0
	102	60 00	Dechantal, Sr. F.	$\tilde{102}$	45 0
oloroa, Sr.	102	60 00	DePazzi, Sr.	102	45 0
elantal, Sr. M. empsey, K. olorita, Sr. B. olorosa, Sr. wyer, Sr. maes: M. E	102	60 00	Delphine, Sr.	102	45 0
Men M. F	102		Devine, M. E.	102	45 0
			$\mathbf{D}_{\mathbf{e}}$ $\mathbf{V}_{\mathbf{H}}$ $\mathbf{U}_{\mathbf{e}}$ $\mathbf{U}_{\mathbf{e}}$ $\mathbf{U}_{\mathbf{e}}$	102	45 0
longerald br	$102 \\ 102$	60 00	Ead, M. J.	102	45 0
meatine, M. E. itagerald, Mine. lowerg, Sr. lowerg, E. M	$102 \\ 75$	60 00	Ethelbert, Sr.	$102 \\ 102$	45 0
WAR	75	44 11	Evangelista, Sr.	102	45 0
18. L			L DI The Man	104	- 40 U
lowers, E. M.	$\frac{102}{102}$	$60 \ 00$	Felix, Sr. Finn, Mme.	$\overline{102}$	45 0

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			1		30 00
Greig, L. C.	88	38 80	Gossip, C. M.		30 60 00
Grierson, F.	102	$45 \ 00$	Creighton, I. M.		
Grierson, M. H.	102	` 45 00			
Hamilton, H. H.	102	$45 \ 00$	Count	Υ.	99 ⁸⁵
Hartigan, Sr.	102	$45 \ 00$		97	99 ^{p.}
Healy, K. E.	102	$45 \ 00$	Stapleton, W. C.	-	- 06
Henrion, C. E.	102	45 00	Stapleton, W. C. evenin	g 12	- 00
James, C. A.	102	45 00	school)	97	20
Jamieson, H. J.	82	36 16	Allen, Christina	102	58 57 57 00
J. Baptist, Sr.	102	45 00	Bell, Mary F.	100	00 57 00
Johns, M: A.	$102 \\ 102$	45 00	Corkum, Clara	97	
Johnson, I J.	102	45 00	Corkum, Ethel	97	c0 V.
Joseph, Sr. Kennedy, M. C.	102	45 00	Creighton, Frances G. Grant, Ethel M.	102	5/ 6
Leo, Sr.	$\begin{array}{c} 102 \\ 102 \end{array}$	$\begin{array}{c} 45 & 00 \\ 45 & 00 \end{array}$	Hamilton, Mary A.	97	27 V
Leocadia, Sr.	· 102	45 00	Hiltz, Ethel M.	97	
Logan, A.	102	45 00	Miller, Florence	97	00 VV
Longeuil, E.	79	34 84	Moore, Jamesina	102	
Lyall,B. H	102	45 00	Moseley, Mabel C.	102	-0 P
Lyons, M.	$102 \\ 102$	45 00	Munro, Mary E.	102	60
McArthur, J. R.	102	45 00	McDonald, Victoria	102	57 06 57 06 57 00
McDonell, Mme.	102	45 00	McLeod, Beatrice	97	57 00
McGregor, A.	$102 \\ 102$	45 00	Prescott, Alice	97	
McLean, A.	102	45 00 45 00	Pye, Eva C.	102	60 41 59 00
Maria, Sr.	$102 \\ 102$	45 00	Shaw, Fenwick L.	101	60 11
Martin, M. J.	$102 \\ 102$	45 00	Settle, Gertrude	102	59 .0
Mary, Sr.	102	45 00	Tupper, Inez	101	40 00
Mitchell, L. E. J.	$102 \\ 102$	45 00	Archibald, Irene	102	45 56
Mooney, E. M.	102	45 00	Archibald, Gertrude J.	102	44 01
O'Donoghue, M. T. T.	102	45 00	Auld, Margaret E.	101	45 55 44 59 3 97 45 00
Perpetua, Sr.	102	45 00	Balcombe, Florence	9	40 00
Phalen, F. J.	102	45 00	Brown, Grace A.	102	40 66
Phinney, E. C.	102	45 00	Cameron, Sadie E.	$102 \\ 99$	444405000877802036
Putnam, A. F.	102	45 00	Coleman, Hannah E.	99 102	10 57
Remigius, Bro.	102	$45 \ 00$	Cooke, Mary L.	102 92	15 00
Rita, Sr.	102	$45 \ 00$	DeVau, Nana	10^{92}	15 00
Rockett, M. M.	102	$45 \ 00$	DeVau, Eileen	102	12 7
Ross, Carrie E.	102	$45 \ 00$	Dickie, Gertrude H.	97	14 1
Strattan, E.	102	45 00	Ellis, Nina M.	331	42 0
Sullivan, M.	102	$45 \ 00$	Erskine, Jennie B.	97	45 0
Sullivan, M. I.	102	45 00	Fahie, Annie M.	102	5 0
Sullivan, M. T. R.	102	45 00	Findlay, Sadie	12	45 56
Theakston, S. E.	102	45 00	Findlay, Sadie	102	45 56 44 00 45 00 45 11 44 00
Travis, A. A.	102	45 00	Foley, Ethel	101	45 00
Trivett, M. E.	102	45 00	Freeman, Nellie B.	102	45 11
Vaughan, K. A. Vincent, Sr. M.	49	21 60	Gallagher, Mildred	102	44 00
Vincent, Sr. F.	$\begin{array}{c} 102 \\ 102 \end{array}$	45 00	Graham, Myrtle E.	100	av 11
Walsh, A. M.	102	$\begin{array}{c} 45 & 00 \\ 45 & 00 \end{array}$	Gourley, Catherine I.	102	97 18
Warner, M. F.	102	45 00	Hanna, Grace	100	44 04
Wells, Ć.	102	45 00	Hartling, Nettie J.	101	31 00
Wells, M. H.	102	45 00	Harvey, Jessie	84	44 04 37 00 45 00 45 00
Willis, E. J.	102	45 00	Heisler, Arthur J.	102	45 00
Jemmott, M. F.	102	30 00	Higgins, Emma A.	102	4º 00
Patrick, Bro.	102	30 00	Hiltz, Lizzy B.	102	12 54
	102	00 00	Hume, Bessie W.	102	15 00
EVENING SCHOOLS		l l	Hume, Mary E.	$\frac{96}{102}$	15 00
			Jackson, Henrietta Jewers, Beatrice	102	15 0
Huggins, G. M.	21	12 35	Laidlaw, Elizabeth	102	42 5
Mackasey, W. P.	37	16 31	Langille, Jessie E.	96	45 .0
Titus, R. L.	33	19 40	Lawrance, Gladys	102	45 -8
			MacGillivray, Flora	102	42 0
ANNUITANTS.				97	452500034007800 45245500034007800
			MacKay, Isabel MacKenzie, Margaret A.	102	45 0
Hall, H. McG.		60 00		102	
Torrey, E. C.		45 00	Myers, Jeanetta A.		
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Myers, Tillie A. Nicholson, Mole					
Vicholson, Malcolm Parke, Nellie L.					
Parke, Nellie L. Rocker, January Janua	101	44 56	Josey, Izetta	102	30 00
Publicover, Jennie E. Roche, Mary	102	45 00	Julien, Emma B.	102	30 00
GOOL WER T.	102	$45 \ 00$	Kennedy, Winifred M.	$102 \\ 102$	30 00
Shute, Marrie E.	102	45 00	Landry, Evelyn M.	93	27 36
	102	45 00	LaPierre, Matilda		
Smith, Anna M. E. Smith, Isabella Smith, Male Addition	97	42 78	*Leslie, Robert	102	30 00
Smith Isat M. E.	102	45 00	Marryat, Ethel L.	30	11 76
Smith, Isabella Smith, Male Addie Strachu, Pearl M.	75	33 08	*Morrow, Stella A.	102	30 00
Smith, Male Addie Strachan, Pearl M. Tays, Kather		33 96	Moshon Ellen S	70	27 45
Tays, (iertrude H. Tays, Hatter Thys, Hatter Thys, Hatter Thys, Hatter Thys, Hatter Thys, Hatter	77	45 00	Mosher, Ellen S.	102	30 00
	102		Murray, Mary I.	73	$21 \ 47$
Taya, Giertrude H. Taya, Hattie S.	96	42 34	McKay, Violet K.	101	29 71
hom attie S	1011	44 78	MacKenzie, Elsie C.	102	30 00
	78	34 40	Naylor, Kate	102	30 00
Ve USOn Since	102	$45 \ 00$	Nicforth, Mabel J.	102	30 00
V. Y. Nutray M	102	45 00	Parlee, Alvida M.	43	12 64
Walker, Bettie E. Adden, Gladys F	101}	44 78	Perry, Eva M.	102	$\frac{12}{30} \frac{04}{00}$
	101_{2}^{3}	45 00	Prest, Mary M.	68	
		45 00	Richardson, Edith M.	102	20 00
Aderson and ys E	102		*Richardson, Mildred	$102 \\ 101 \\ \frac{1}{2}$	30 00
Andrew, Arthur T	48	21 16	Ritcy, Augusta O.		39 80
	78	30 59	Catagorial Logia M	102	30 00
Anderson, Arthur J. Anderson, Arthur J. Archibald, Edward Baker, Winsie	59	23 13	Sedgewick, Jessie M.	84	24 71
Audrews, Arthur J. Archibald, Maggie E. Baker, Windward Boyle, Katie A. Coreast A.	59	17 35	Shaw, Selena E.	91	26 77
Boyle, Katie A. Rokenshire, America	19	5 59	*Skerry, Emma	87	34 11
	64	18 82	Smith, Alice M.	97	28 53
Brokenshire, Amelia Caroli, Adelle Coline, Bernico	$\tilde{15}$	4 41	Smith, Edna R.	773	22 80
	102	30 00	Spanks, Margaret E.	101	$29 \ 71$
Collis, Bernie	102	30 00	Stoddard, Lena S.	102	30 00
12 YOB D YOB		30 00	Stoddard, Robert H.	102	30 00
	102	30 00 oc 01	Stoddard, Sabina B.	102	30 00
IL TOP A THUNG	$91\frac{1}{2}$	26 91	Sullivan, Rose M.	102	$30 \ 00$
Dephine R	$101\frac{1}{2}$	29 85	*Upshaw, Ethel I.	100	
omeau, Fearl Daupei, Anna R. Daupei, Anna R. Dechman, Elizabeth J. Pickie, Mabel B. Flather, Annie J	73	21 47	* Upshaw, Ether I.		39 21
Nickie z Elizal	102	30 00	Urquhart, Nellie	102	30 00
oryadale, Annie J. Ratham, Gertrude Rakine, Alizabeth	102	30 00	Warner, Mary B.	102	30,00
Death, Ann. B.	77	30 19	Watt, Bridget G.	102	30 00
	88	25 89	Voodon, Ida M.	82	$24 \ 12$
bakin Vera Di	102	40 00	McPhail, Annie L.	102	30 00
Ale Lizabeth		29 71	Bates, Edwina M.	101	29 71
	101	24 41		-01	20 11
	83	28 38	ANNUITAN	rs.	
K. N. L. WOIN T.	$96\frac{1}{2}$	30 00			
Portos, Marie G. Rox, Alice O. Gaetz, Mina	102	30 00	Gibbons, John		00.00
12. 3 Al: 2900 A	102	27 36	Bacon, Amelia A.		30 00
Gawson, Ethel May	93	30 00	Bacon, milena M.		$30 \ 00$
	102	30 00			
Guawaco, Anno T	102	30 00	· · · · · · · · · · · · · · · · · · ·		
Wild E. Ether E.	48	18 82			
	111	4 3 52	HANTS.		
Cuild' Elizat	78	22 94			
Build Fifther beth B.	81	31 76	WEST.		
Auld, Ethe Jane Hall, Ethel G. Hanna, Will:	79	30.98	11001.		
Hall, Harry Hanna, William Fielding Harpell, Amanda Flartin, Margaret To Particle	102	30 00	Dill, George W.	017	
Hanna, William Fielding Rarpell, Ananda Rartison, Margaret H Partison, Margaret H	20	5 88	Koulbook T	97	99 85
tapell Anam Field:	102	30 00	Kaulbach, Lenore	97	85 59
Harpel, Amanda Harbel, Amanda Harting, Evgaret H. Harting, Evgaret H. Heteleg, Minnie F. Henry, Nellie H.	102	$30 \ 00 \ 39 \ 61$	Smith, J. A.	100	$102 \ 93$
Harding Margarot	$101 \\ 07$	08 01	Coldwell, Lewis H.	102	60 00
Heining HVA CH.	87	25 59	English, Mabel I.	99	58 23
Rener, Minnis atherine	91	35 68	Foote, Reca K.	102	60 00
Dur tielling H	102	30 00	Fulmore, A. Maude	93	54 71
Harding, Manda Harding, Eva Catherine Heilerg, Minnie F. Henry, Nellie M. Highr, Leah M. Highre, Lida M. Highre, Lida M. Highre, Lidie M. Hopkie, Stella B. Hughe, Stella B.	84	$24 \ 71$	Lavers, Winnifred M. G.		60 00
*Kine Cah M	102	30 00	Lewis, Lena L.	$102 \\ 102$	60 00
	101	29 71	Lockhart, Bessie B.	102	60 00
N MIA A MILLA ST	741	23 91 21 91	LOCKHARD, DESSIE D.	102	60 00
Bopki, Stell, M.	60	41 VI 99 #0	Lockhart, Lena L.	102	60 00
Lutchia Man B.	· · -	23 53	McLellan, Mary	102	
	102	30 00	Pentz, Bertha E,	95	55 88
WWW CON Anging	102	30 00	Scott, Agnes B.	102	60 00
Hopkins, Stella B. Butchinson, Angua Jector, Cora B. Jewers, M. Annie	38	11 17	Webster, Elsie E.	4	235
aiQuar	76	$22 \ 35$	White, Jennie M	102	60 0 0
2	91	26 77		102	45 00

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			1		37 48 44 56 44 00
Bennett, Hannah	102	$45 \ 00$	Campbell, Lena B.	85	44 00
Bissett, Amy R.	102	$45 \ 00$	Campbell, Margaret B.	101	45 00 44 56 45 00 4 41 4 00
Boyle, Harriet M.	102	$45 \ 00$	Densmore, Agnes McH.	102	44 00
Brison, Maud L.	93	$41 \ 01$	Dowell, Helen G.	101	45 11
Burgoyne, N. A.	102	$45 \ 00$	Ferguson, Janie A.	102	45 00
Caldwell, Winnie B.	102	$45 \ 00$	Fraser, Ella J.	10 102	
Davies, Kathleen	102	45 00	Graham, Addie R.	102	45 00 45 00
Dimock, Annie	102	45 00	Graham, Alice E.	102	15 00
Dimock, Jessie	102	45 00	Graham, Julia M.	102	2 63
Fraser, Daisy R.	102	45 00	Hamilton, Mildred	74	45 00
Goudy, Emily F. Harvey, Alice A.	102	45 00	Hartling, Mabel E.	102	45 00
	$\frac{102}{101}$	$\begin{array}{c} 45 & 00 \\ 44 & 56 \end{array}$	Homans, Estella M. Kent, M. Lillian	102	44
Harvey, Arabella Kelley, Minnie A.	101	44 00	Lewis, Sadie R.	100	45 16
King, Mildred E.	97	42 78	MacLeod, Margaret	102	44 .00
Lawrence, Harriet E.	102	45 00	*McGill, Frances	101	45
Lawrence, Lily M.	97	$42 \ 78$	Mariette, Emma M.	102	84 -0
Lockhart, E. Bessie	102	$45 \ 00$	Moreash, Sara M.	102	AU _0
Lynch, Jessie A.	102	$45 \ 00$	Salter, Hattie M.	102	AU -C
McCurdy, Helen	102	$45 \ 00$	Simm, Ada A.	$102 \\ 53$	20 0
McLearn, Gertrude E.	102	45 00	*Brown, Helen F.	97	al V.
Moore, Jennie	102	45 00	*Coldwell, Alice B.	102	of *
Mosher, Idella P.	101	44 56	Cole, Lydia	93	
North, Marjorie D.	99	43 66	*Coudrane, Ethel B.	33	22 35 20 85
Palmer, Gladys L.	97	42 78	Dowell, Vera	57	22 85 29 85 36 41
Palmeter, Nora A. Parker, Prudence E.	102	$ 45 00 \\ 45 00 $	*Etter, A. Gorden	1013	36 1
*Parsons, Hattie A.	$\frac{102}{99}$	43 66	Faulkner, C. Benjamin	93	30 00 30 00
Roach, Lena L.	99 75	33 08	*Goff, Flora M. Hale, Sadie E.	102	$ \begin{array}{c} 30 & 0 \\ 40 $
Rogers, Sadie	$101\frac{1}{2}$	44 78	*Hamilton, Olivia A.	102	40 50
Sanford, Alida R.	102	45 00	*Harvey, Florence	102	30 53
Sexton, Verna	86	37 92	Horne, May E.	102 97	23 82
Shaw, Mildred L.	102	$45 \ 00$	Isenor, Lena M.	81	29 12
Spencer, Fred L.	102	$45 \ 00$	Logan, John S.	99	838138871848881488018 8883881988748881488018
Tuttle, Florence L.	9	3 97	Logan, Katie L.	102	25 1
*Archibald, Mary McKa	y 96	37 64	MacDougall, Merle R.	188	19 11
*Barnaby, Elsie M.	98	38 43	MacPhee, Rose	67	29 10
Carter, Medora	100_{-02}	$\begin{array}{ccc} 29 & 41 \\ 36 & 47 \end{array}$	MacLean, Katherine	101	30 41
*Chase, Gertrude M.	93 05	$\frac{30}{27}$ 94	McLellan, Annie	102	29 00
Cochrane, Madge I. Davidson, Rebecca	$\frac{95}{102}$	$\frac{27}{30} \frac{54}{00}$	McLeod, Elsie McLeod, Laura G.	100	40 00
Laws, Lillian	102	30 00	*Mason, Sarah J.	102	30 89
*McClair, Leslie R.	73	$\frac{30}{28}$ 63	O'Brien, Janie L.	$102 \\ 88$	20 71
Quinn, Dora M.	102	$\frac{20}{30}$ 00	O'Brien, Miles A.	101	22 .0
*Rose, Anna M.	20	7 84	Parker, Alice B.	78	30 00
Simm, Jennie P.	102	30 00	Parker, Winifred E.	102	30 01
*Smith, Nellie A.	67	$26 \ 27$	Stillman, Flora B.	102	29 00
Underwood, Janie	100	29 41	Sutherland, Jessie C.	101	30 0.
Vaughan, Bertha L. *Vaughan, Alice G.	72	$21 \ 17$	Wickwire, Margaret A.	102	
Withrow, Blanche H.	$\frac{102}{102}$	40 00	Williams, Reta H.		
i ionicon, isanche II.	102	30 00	ANNUITAN	rs.	60 00
EAST.			ANNUITZ		60 00
			South Tille A		0-
Baltzer, Ivy M.	102	60 00	Scott, Lily A.	14 - C	
Crossley, Nellie B.	102	60 00	Smith, Letson M.		
Holesworth, Mabel C.	101	59 41			
Macdonald, Ruby	$\overline{102}$	60 00	INVERNE	SS.	
McKenzie, Florence H.	102	60 00	INVERNE		
Ogilvie, Estey M.	101	59 41			
Oxley, Gertrude O.	102	60 00	SOUTH.		100 66
Ritcey, Adelaide M.	102	60 00		101	03 58
Scothorn, Priscilla	102	60 00	Tompkins, Ida	98	$\begin{array}{c}103\\57\\65\\23\\60\\0\end{array}$
Strong, May S.	102	60 00	Chisholm, Jennie,	40	0.
Blois, Josephine C.	101	44 56	Gillis, James D.	102	
Burgess, Bertha L.	102	45 00	Johnson, Harriet		
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McDougall, Jessie A McInnis, Duncan			1		
Melnnis, Duncan MacMaster, Annie	102	80.00	*0"	~ ~	
MacMaster Duncan	+ 44	60 00	*Gibson, Emmett E.	82	32 15
Ment doler An-	102	$\begin{array}{c} 25 \\ 60 \\ 00 \end{array}$	*McDonald, Mary A.	20	7 84
Stater St. Wm. H	102	60 00	*Maclachlan, Minnie G.	78	30 59
	102	60 00	*McLellan, M. Catharine		29 02
Woodbury, Harold C. Beaton, Margaret	102	60 00	*McMaster, Mamie	102	40 00
	98	57 65	*McPhail, Ellen Sophia	86	33 72
	102	45 00	*Matheson, Katie Sophia Graham, Katie M.	93	36 47
	102	45 00	Granam, Katle M.	49	14 40
Hume, Florence MacDonald, Marrie D.	102	45 00	ANNUITANI	101	
McDonald, Mary B. McDonald, Mary B. McDonald, James B.	102	$45 \ 00$			
kacDonald, Mary B. keDonald, James R. keDonnell, Christina E.		$45 \ 00$	McQuarrie, Angus		30 00
AcDonald, James R. MacIsaac, Mary Agnes RacKay, D. Mary Agnes	$102 \\ 102$	45 00	Chisholm, Duncan		60 00
Lasaac Maristina E	102	$45 \ 00$			00 00
Forkay, Dary Agnes	59	26 01	NORTH.		
Jaclasac, James R. Maclasac, Mary Agnes For Evening School McLean, Edgar H. Metellan, Florence C	⊯ 102	45 00			
Marean, F. School	8	3 52	Boudreau, Anselm C.	102	60 00
Melellan, Figar H.	$10\overline{2}$	45 00	Chisholm, Janie A.	102	60 00
	102	45 00	Collins, Daniel	78	45 88
Meleod, Mary M. Meleod, Mary M. Medaster, D. B. MacQueen, Katherine (JBriay, Winnifred Sister, D. C.	102	$45 \ 00$	Cormier, Wm. E.	102	60 00
	102	$45 \ 00$	Gillis, Malcolm H.	95	55 88
	10^{-102}	45 00	Kennedy, Christie B.	102	60 00
Sinter, Rufe	- <u>0</u> -	$41 \ 45$	McDermid, Donald		5 29
	97	4278	MacInnis, Charles J.	29	17 05
	102	45 00	MacRae, Agnes	34	19 99
Beat, Beatrip of J.	102	45 00	MacRae, Agnes	20	11 76
Beaton, Cathorice	102	$45 \ 00$	Tompkins, Matthew	98	57 65
Den of M. Touringe H	102	30 00	Sister Mary St. Stephen	102	60 00
Beaton, Mary Agnes Ceaton, Sarah Ann Cameron, Sarah Ann Campbell Janet Frances	100	30 00	Arseneadlt, Mary B.	102	45 00
Caneron, Janet Frances Cameron, Janet Frances Campbell, Margaret M.	84	24 71	Austen, Kenneth J.	102	45 00
	102	30 00	Boudreau, Placide C.	92	40 57
Chishol, Marces	88	25 89	Chiasson, Ephraim Chisholm, Arch. A.	101	44 56
Campon, Janet Ann Campon, Janet Frances Chighell, Margaret M. Currie, Manie Grant, Jessie	87	25 59	Chisnoini, Arch. A.	59	26 01
Rorbes, Jessie A. Grant, Cassie J.	93	$27 \ 36$	Coady, Sarah J. Daigle, Annie M.	102	45 00
	90	26 47	Dimock, Clarence	102	45 00
Grant, Cassie A. Grant, Edith E. James, Bertha	102	30 00	Finn, Violet	26	11 47
	86	25 30	Gray, Jennie Vivien	62 109	27 34
	102	30 00	LeBlanc, John P.	$\frac{102}{102}$	45 00
Luneson, Ona Alice Jeonard, Dollie McDonald, Mary B. McDonald, Mary Jappe	102	30 00 30 00	McDaniel, Annie E.	102 97	45 00
Mannaisollie	102	24 41	McKinnon, Mary C.	102	42 78
M. Onald, Marry D.	83	$\frac{24}{30}$ $\frac{41}{00}$	McLean, L. E.	102	$\begin{array}{c} 45 & 00 \\ 45 & 00 \end{array}$
Menonald, Mary Is-	$102 \\ 07$	28 53	McLellan, A. N.	$102 \\ 102$	45 00
M. Obali, Mammer	97	30 00	McLellan, Mary C.	102	30 00
	102	26 47	MacMillan, Duncan A.	41	18 08
	90 01	26 77	Sister St. Andrew	102	
Conaid, Mary Jane MacFadye, Jora Bell MacFadye, Jora Bell MacFadyen, Barbara R. MacIntyre, Catharine I. MacKeigan, Margaret McKeigan, Margaret McLeod, Catharine I. MacMillan, Catharine	$91 \\ 82$	24 12	" " Genevieve	$\frac{102}{35}$	$45 \ 00$
Mank San Latharing T	100	29 41	" " Zephyrin	- 	15 43
all	129	3794	Arceneau, Florence		$ \begin{array}{c} 2 20 \\ 24 71 \end{array} $
	83	$24 \ 41$	*Cameron, Christina	84 76	24 71
MacNail, Catharine MacNail, Katie MacNeil, Mary A. MacQueen ary File	78	22 94	*Coady Rehages F	76	29 80
	102	30 00	*Coady, Rebecca E Coady, Francis P.	91	35 68
M. HAIL ALBINA	$10^{-10^{-10^{-10^{-10^{-10^{-10^{-10^{-$	30 00	*Delaney, Matilda	91	26 77
MacQueen, Mary A. MacQueen, Alice Rose, John A. Smith, Danial	58	17 05	DesVaux, Adele D.	82	32 15
Rose, John A. Blinner, Daniel A.	88	25 89	Desvaux, Adele D. Doucet, Adele Sophia	102	30 00
She 2 (a) 2 (Date a	81	$\tilde{23}$ 82	Gillis, John	100	$\begin{array}{c} 29 \hspace{0.1cm} 41 \\ 6 \hspace{0.1cm} 76 \end{array}$
maith Dan	$\overline{27}$	7 94	Hawley, Maude	23	5 88
	102	30 00	*Kennedy, Murdoch D.	20 10	3 92
Wryuh, Harver	$\tilde{102}$	30 00	LeBlanc, Judith	102	30 00
Patte Mey Richard	76	22 35	MacDaniel, Sadie B.	102	30 00
Watta, Ada Murit	76	$\frac{22}{22}$ 35	McDonald, Annie M.	102	30 00
Beave Ada M	78	22 94	Macdonald, Mary S.	83	24 41
waite, is vy Richard Watte, Harold *Bts, Ada Myrtle Daver, Lena May Vis, Mrs. Mary For 1907	101	2971	*MacDonald, Angus A.	101	39 61
For Mrs. May	87	$\frac{33}{34}$ 11	MacDonell, Katie J.	87	25 5 9
Ceaver, Lena Myrtle Vavis, Mrs. Mary For 1907	122	47 84	McDougall, Maggie	102	30 00
•		17 09		102	30 00
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				100	60 00
McDougall, Agnes	73	$21 \ 47$	Dow, Jessie M.	$102 \\ 102$	60 00 60 41
McGregor, Dan E.	78	22 94	Durling, Ina	$102 \\ 101$	
MacIntosh, Sophie	102	30 00	Elliott, S. E. Primrose	$\begin{array}{c} 101 \\ 102 \end{array}$	59 00 60 00
*McKay, Dan P. MacKinnon	102	40 00	Gilliatt, Ruth E.	102	60 00 60 00 60 17
MacKinnon, Annie	88	25 89	Graves, Laura H.	102	
MacKinnon, Christena MacKinnon, Eva	67	19 70	Hamilton, Helena H.	87	51 00 60 00
*McLean, Geo. M. G.	15	4 41	Landels, Ermina G.	102	60 09 60 09
*McLean, Libby D.	42	16 47	Lee, Minnie M.	$102 \\ 102$	60 00 60 00
*Maal allan Annia M	49	19 21	Loomer, Estella J.	102	60 00 60 04
*MacLellan, Annie M.	41	16 08	Margeson, Susie M.	102	60 94 2 94
McLellan, J. Ronald McLennan, Katie B.	102	30 00	Marshall, Gertrude L.	5	
MacLennan, Charles R. I	102	30 00	McDonell, Margaret	102	60 00 60 00
McLennan, Mary A.		$\begin{array}{c} 125 89 \\ 21 17 \end{array}$	Miner, Bertha	102	$\begin{array}{c} 60 \\ 60 \\ 0 \\ 70 \end{array}$
MacLeod, Norman	72 58	17 05	Morse, Elizabeth G.	102	$\begin{array}{c} 60 \\ 59 \\ 70 \\ 59 \\ 00 \end{array}$
McLeod, Francis P.	102	30 00	Morse, Florence B. Moses, Etta F.	1011	611 * 4
MacLeod, Maggie C.	102	30 00	Munro, Lizzie B.	102	
MacLeod, Norman	73	$21 \ 47$	O'Brien, Greta F.	101	-0.12
MacMillan, Daniel	102	30 00	Parker, Lucia M.	102	
*MacMillan, Louis A.	83	32 55	Rinog Magnin T	102	60 00 60 00
MacQuarrie, Annie		25 89	Rines, Maggie L.	102	60 00 60 00
Martin, Mabel B.	102	30 00	Sexton, Thelma	102	60 00 60 00
Matheson, John D.	102	30 00	Smith, Verna M.	102	
Morrison, James H.	68		Starratt, Hattie B.	102	60 65 57 65
Murphy, Mary R.	102	$20,00 \\ 30,00$	Trenholm, Olga F.	98	$57 \\ 60 \\ 00 \\ 00$
Rose, John L.	91	26 77	Welton, Jennie Wood, Apha M	102	$\begin{array}{c} 60 & 00 \\ 60 & 00 \\ 0 & 00 \end{array}$
Sister St. John	102	30 00	Wood, Apha M. Woodward, Crease I	102	$\begin{array}{c} 60 & 00 \\ 60 & 00 \\ 00 & 00 \end{array}$
" " Margaret Mary	$102 \\ 102$	30 00	Woodward, Grace L.	102	60 10
"Aberdeen" Consolidation	n 104	00 00	Woodworth, Catherine Wylde, Sara P. W.	102	34 00
No. 60, "D".	, 100	29 41	Anis, Vivian A.	78	
	100	40 H.	*Best, Bessie M.	102	42 10
ANNUITANI	rs.		Brown, Laura A.	102	45 00
			Cahill, Cassie L.	102	40 00
			Challen, Bessie	102	49 11
McLean, Donald E.		60 00	Corkham, David A.	102	44 00 45 00 45 00
McDougall, Arch. S.		$45 \ 00$	Cox, Miriam J.	100	40 00
MacKinnon, Malcolm		45 00	Daniels, Mildred	102	45 00
Gillis, John A.		$45 \ 00$	Eaton, Bertha M. L.	$\begin{array}{c} 102 \\ 102 \end{array}$	40 60
Nicholson, Arch. G.		$45 \ 00$	Fairweather, Winnie L.	83	15 00
MacMillan, Peter		30 00	Finley, Eva L.	102	28 80
McDonald, Teresa		45 00	Foote, Edith M.	88	15 00
7			Foster, Laurie E.	102	45500000000000000000000000000000000000
Assistants	s.		Franey, Bertha M.	102	46 .
O			Gibson, Ethel W.	$102 \\ 102$	6 81
Coady, Daniel	91	17 85	Grafton, Louise	15	45 61 45 60 45 60 21 57 45 00 45 00 45 00 45 00
LeBlanc, Margaret E.	91	17 85	Guild, Libbie	102	21 00
			Higgens, Margaret	49	25 0
·	-		Hockin, Hilda	58	45 00
KINCO			Jenkins, Giralda H.	102	45 00
KINGS.			Kent, Bessie W.	102	45 00 45 41 4 00
Campbell, Jessie B.	100	105 00	Lamont, M. Gertrude	102	45 41
Fairweather, Ernest E.	102	105 00	Lamont, Nancy C.	102	4 00
Farrell, Mary A.	102	105 00	Lochart, Harry P.	10	
	102	75 00	Longueil, Edna E.	102	44 10
Ford, Robie W. Foster, Mayhew C.	102	$105 \ 00$	Macdonald, Laura	100	45 00
Poster, maynew C.	102	$105 \ 00$	Mahan, Effie E.	102	45 00
Oxner, Bertha G.	102	90 00	Manthorne, Jennie M.	102	45 00
Webster, Winifred M.	102	90 00	Margeson, Hanna D.	102	44 44 45 45 45 45 45 66 00 66 00 66 00
Armstrong, Flora B.	102	60 00	McFadden, Kathleen	102	45 00
Baltzer, Nettie L.	102	60 00	Morse, Kate O.	99	45 00
Best, Flora A.	102	60 00	Mosher, Margaret	102	45 56
Boyle, Annie B. T.	28	16 47		102	44 63
Brinton, Effie S.	102	60 00	Patterson, Florence S. Parker V. Essie	101	$\frac{32}{5}$ 00
Cassidy, Bertha M.	101	59 41	Tarker, V. Dano	74	45 00
Chute, Hettie M.	97	57 06	Quigley, Mary E	102	,
Cochrane, S. Ethel	102	60 00	Rines, Rossie A.		
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Robinson, Clara A. Sanford, Celia A					
Sanford, Celia A. Sanford, Celia A. Shipi, Sadie W	102	45 00	I THNENDUDG AND	3773777	DUDTIN
Sanford, Celia A. Shipley, Sadie W. Swipley, Mary H	102	45 00	LUNENBURG AND	NEW	DORTIN'
Shipley, Mary H. Tavio, Charlett, D.	50	$\frac{10}{22}$ 05	Handin M IT		107 00
Swindell, Charlotte E. Taylor, Sadie E.	102	45 00	Harding, M. K.	102	105 00
Taylor, Sadie E. War, Gertrude	62	27 34	McKittrick, B.	97	99 85
Tobin, Sadie E. Wagner, Zilpha	93	41 01	Hewitt, M. C.	102	90 00
	102	45 00	Rudolf, Mary	102	75 00
Wagner, Zilpha A. Wallace, Ellen Willer, Bester	$102 \\ 102$	45 00	Martin, Oscar	102	$60 \ 00$
Weaver, Beatrice M. Wilkins, Hattie E.		8 82	Bruhm, Muriel	102	60 00
	20	45 00	Crowell, Brunhilda	101	$59 \ 41$
Woodworth, Cora E. Baltzer, Lilla B.	102	45 00	Davis, May T. Freeman, Nettie	102	60 0 0
	102	45 00	Hebb, Bessie C.	101	59 41
	102	$\frac{10}{23}$ $\frac{00}{71}$	Hennigar, Mabel	97	$57 \ 06$
	63	$\frac{1}{38}$ 38	Herman, Bertha	48	$28 \ 23$
RALING F TO L.	102	30 86	Holder, Harriet	97	$57 \ 06$
	82		Joudrey, Edith	98	$57 \ 65$
	87	25 59	Knickle, Kathleen	102	60 00
Calder, Maria E. Calder, Maria E. Carver, Ida N. Coute, Zephina B. Cost, Eunice M	81	30 48	Leary, Mary E.	102	60 00
	81	30 48	Maxner, Morris	102	60 00
- 11, 14, R. 114, D.	32	9 41	Mullock, Florence	102	60 00
	102	$\frac{38}{25}$	Mullock, Florence McInnis, A. D.	$\begin{array}{c}102\\102\end{array}$	60 00
	68	25 59	McMillan Margarot	102	60 00
Fox Mabel D	3 9	11 47	McMillan, Margaret	99	60 00
	101	29 71	Pearl, Etta M.	$\frac{33}{72}$	$\begin{array}{ccc} 58 & 23 \\ 42 & 35 \end{array}$
	20	7 52	Prince, Ina B.	97	42 35 57 06
Graves, Eva M. Hazell, Eliza	39	14 67	Rafuse, Eva Ritcey, Winnie	102	60 00
*H. od E	102	30 00	Silver, Lottie M.	98	57 65
	102	30 00	Strump, Gladys	102	
	102	38 38	Veinot, Alice	$102 \\ 102$	60 00
ulder, Julia M	101	2971	Wentzell, Minnie	$102 \\ 102$	60 00
Meaniar, Chiza J. Illeley, Grace D. Illeley, Julia M. Jenking, Lucy A	102	30 00	Wynacht, Maggie		60 00
	102	30 00	Young, Helen R.	97	57 06
Heley, Julia M. Haley, Lucy A. Jones, Bessie M. Kaubach, M.	$77\frac{1}{2}$	$29 \ 16$	Young, Mary E.	97	57 06
Jones, Nina M. Jones, Bessie M. Kaulbach, James O. Levy, Cassie O. Manya, Cicol M.	99	29 12	Bailly, Leta M.	102	60 00
	102	38 38	Bolivar, Alma M.	87	38 36
Adversary, Evelyn M. Anazar, Gladys R. Marshall, Nina	102	30 00	Bowers, Mary		42 78
Marsar, Gladys R. Marshall, Nina Muno, Gertmud	83	31 24	Brooks, Blanche	102	45 00
McMahall, Nips	102	30 00	Christie, Katherine	101	44 56
Numro J, Gert	68	25 59	Crawford, Florence	101	44 56
Marshall, Gladys R. McMahon, Gertrude Neary, Stella D.	102	30 00	Corkum, Cassie	102	45 00
D. Win 248 R	102	30 00 30 00	Crouse, Cynthia	102	45 00
Pellvie Elsie M	102	26 71	Dauphinee, Tessie	101	44 56
alunro, Gertrude Aunro, Iola J. Aurov, Iola J. Aurov, Stella B. Oglivie, Charlotte M. Partish, Cora B. Patterson, Mary E. Rand, Harrist E.	71	30 00	Ernst, Jessie M.	101	44 56
D Will out B D	102	30 00	Ernst, Phebe	101	44 56
	102	27 36	Fralig, Elsie	102	45 00
to dd i'r Cimer Lu	93	15 42	Howkeen How	102	45 00
THE	41	30 00	Hawksworth, Eva	101	44 56
	102	31 24	Hebb, Jennie L.	102	45 00
a dida di eninalia	83	$31 24 \\ 34 25$	Hirtle, Bertha	102	45 00
	91	04 20 90 00	Hirtle, Ethel	102	$45 \ 00$
Mnith, Eva M. *Vaughan, Ida L. *Weaver, Annie L. *Weaver, Marie L.	98	28 83	Hirtle, Mary E.	102	$45 \ 00$
	102	38 38	mirtle, Olive	102	45 00
the Bar, M. M.	102	38 38	Hirtle, Rov	102	45 00
Weaver, Mary P. Weaver, Annie L. Withrow, Ethel	20	7 52	Keddy, Bessie	101	44 56
throw Mabel	68	25 59	Langille, Edith	102	45 00
W, EthalA.	75	28 23	Lohnes, Minnie O.	102	45 00
-01	$101\frac{1}{2}$	38 20	Mader, Bessie	102	45 00
			Manning, Myra	102	45 00
ANNUITANT	5.		Mason, Jessie	102	45 00
R. Ten Vohn		_	Millett, Sadie	102	45 00
Craig, J. Alonzo		75 00	Manzar, Laliah	102	45 00
W. Jan Alonzo W.		60 00	McLachlan, Lelia	49	21 60 45 00
Carlies and		60 00	Parker, Carrie M	102	45 00
Ann		45 00	Remby, Lottie R	89	39 24
Assistants	5.		Richard, Edith	102	45 00
Hill, Nathalie			Rodenhiser, Lettie	102	45 00
	88	17 26	Romkey, Mary C.	102	45 00
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Silver, Florence Silver, Susie B. Smeltzer, Lillie Smith, Eva M.					- A 1
Smeltzer, Lillie Smith, Eva M.	102	45 00	Reinhardt, Ethel	102	30 0 29 7
Smith, Eva M.	102	45 00	Saltman, Ernest	101	
	96	$42 \ 34$	Silver, Jemima	102	
	82	36 16	Simpson, Esther	102	
Smith, Lola L.	102	$45 \ 00$	*Slauenwhite, Florence	102	
Smith, Minnie B.	102	$45 \ 00$	Smith, Ada Á.	102	30 32 29 25 7 0
Tobin, Ellen M.	102	$45 \ 00$	*Sperry, Rhoda	82	29
Tobin, Mary E.	102	$45 \ 00$	Strumm, Emma	101	25 0
Thompson, Mary E.	102	$45 \ 00$	Thompson, Ella	86	-7 V
Warner, Emma L.	102	$45 \ 00$	Veinot, C. W.	24	30 1
West, Élla L.	102	$45 \ 00$	Veinot, Lillian	102	34 5
Wolfe, Jennie E.	54	23 81	*Veinot, Minnie	88	34 71 29 71
Young, Edith M.	43	18 96	Vogler, Ethel B.	101	$\frac{29}{30}$ 0
Wambach, Vera	102	45 00	Wagner, Ella A.	102	
Baker, May E.	63	18 53	Wagner, Sadie	91	30 0
Bell, Gertrude	102	30 00	Wentzell, Edith	102	30 00
Bell, Minnie	102	30 00	Wessell, Laura	102	30 8 25 8 30 00
Berringer, Ross	14	4 12	Westhaver, Jennie	88	30 0
Bolivar, Bernice	7 8	$30 \ 59$	Wile, Dora A.	102	30 00 30 00
Brooks, Jessie	102	30 00	Wolfe, Blanche	102	
Brooks, Lena	102	30 00	Zwicker, Bessie	102	
Burns, Elsie	102	30 00	Zwicker, Flora	102	$30 \\ 30 \\ 00$
hesley, Isabel	102	30 00	Zwicker, Rhoda	102	
orkum, Grace	$10\overline{2}$	30 00			
orkum, Gladys	98	28 83	Annuitan	TS.	
reaser, Florence	78	$\frac{10}{22}$ 94	ANNOIL	•	60 00
rouse, Georgina	97	$\frac{22}{28}$ 53	Rieser, Daniel		45 0
Dauphinee, Lee	102	40 00	Faulkner, James		45 00
Deal, Bernice L.	102	30 00	Stoddart, Marie		45 00 45 00 45 00 30 00
Dolliver, Lydia	102	30 00			
Jurland, Nina	102	30 00	Heckman, Albert D.		
Lisnor, Idella	102	30 00			
Irnest, Gladys	54	15 87			
ancy, Elizabeth	101	29 71	CHESTER		. 10
Fralic, Enid	100	39 21	CHESIEN	_	60 00
Iaines, Hildred	90	$26 \ \tilde{47}$	Kenney, Mary B.	10^{2}	60 00 60 00
Iall, Bessie L.	102	30 00	Weldon, Alice G.	102	
lebb, Beatrice	100	$29 \ 41$	Zinck, Austin A.	102	60 01
lebb, Lavinia	102	$\frac{20}{30}$ 00	Zinck, Minnie	102	41 00
lebb, Leda M.	92	$\begin{array}{c} 30 & 00 \\ 27 & 06 \end{array}$	Bent, Evelyn	93	40 50
Himmelman, S.	90 90	$\frac{27}{26}$ $\frac{00}{47}$	Bruhm, Flora	102	41 00
Iirtle, Gladys	102		Croft, Margaret	101	45 00
lirtle, Jessen	$102 \\ 102$	$\frac{30}{20}$ 00	Croit, margaret	102	40 00
lirtle, Kate		$\frac{30}{22}$ 00	Countway, Blanche	10^{2}	600105000050050050380000840 6001454455531552513845000
lirtle, Pearl	81	23 82	Hatt, Laura M.	102	40 75
Iyson, Grace	36	10 59	Hiltz, Josie A.	10^{2}	31 00
nglis, Mary L.	94 91	27 65	Hirtle, Seward	72	45 18
Jefferson, Minnie	102	$\begin{array}{c} 26 & 77 \\ 40 & 00 \end{array}$	Matthews, Margaret	102	42 00
Jefferson, Minnie Joudrey, Lida	102	40 00	Nicol, Minnie J.	97	45 32
aulback, Birdie	44	12 93	Spidell, Jennie M.	102	1 00
aulback, Laura	97	12 93	Webber, Olie B.	3	38 00
eddy, Elva M.	59	28 53	Webber, Evangeline	88	45 00
		17 35	Whitford, Albert	10^{2}	30 00
	102	30 00	Zinck, Florence	102	40 64
lennedy, Lois	102	30 00	Acker, Hattie	102	7 00
lennedy, Lois acy, Hattie		30 00	*Backman, Ollo M.	20	30 1
lennedy, Lois acy, Hattie angille, Aileene	102	00 0 1	Sackman, Ono 12.		
cennedy, Lois acy, Hattie angille, Aileene angille, Emery	102	30 00	*Baker, Cora A.	10^{-2}	29 53
ennedy, Lois acy, Hattie angille, Aileene angille, Emery angille, Myrtle	$\begin{array}{c} 102 \\ 100 \end{array}$	$\begin{array}{ccc} 30 & 00 \\ 29 & 41 \end{array}$	*Baker, Cora A. Corkum, Annie B.	$102 \\ 100$	29 53 28 60
ennedy, Lois acy, Hattie angille, Aileene angille, Emery angille, Myrtle ohnes, Flossie	$102 \\ 100 \\ 102$	$\begin{array}{ccc} 30 & 00 \\ 29 & 41 \\ 30 & 00 \end{array}$	*Baker, Cora A. Corkum, Annie B. Corkum, Minnie	102	29 53 28 00 30 51
ennedy, Lois acy, Hattie angille, Aileene angille, Emery angille, Myrtle ohnes, Flossie ohnes, Stella	$\begin{array}{c} 102 \\ 100 \end{array}$	$\begin{array}{ccc} 30 & 00 \\ 29 & 41 \end{array}$	*Baker, Cora A. Corkum, Annie B. Corkum, Minnie Eldridge, Jennie	$102 \\ 100 \\ 97$	29 53 28 00 30 51 34 50
ennedy, Lois acy, Hattie angille, Aileene angille, Emery angille, Myrtle ohnes, Flossie ohnes, Stella Jack, Theresa	$102 \\ 100 \\ 102$	$\begin{array}{ccc} 30 & 00 \\ 29 & 41 \\ 30 & 00 \end{array}$	*Baker, Cora A. Corkum, Annie B. Corkum, Minnie Eldridge, Jennie	$102 \\ 100 \\ 97 \\ 102$	29 53 28 00 30 51 34 59 5 5
ennedy, Lois acy, Hattie angille, Aileene angille, Emery angille, Myrtle ohnes, Flossie ohnes, Stella lack, Theresa leisner, Arnold	102 100 102 101	$\begin{array}{ccc} 30 & 00 \\ 29 & 41 \\ 30 & 00 \\ 29 & 71 \end{array}$	*Baker, Cora A. Corkum, Annie B. Corkum, Minnie Eldridge, Jennie Hawboldt, Gertrude *Hirtle Nora	$102 \\ 100 \\ 97$	29 53 28 00 30 51 34 59 23 55 23 17
Lennedy, Lois Lacy, Hattie Langille, Aileene Langille, Emery Langille, Myrtle Johnes, Flossie Johnes, Stella Lack, Theresa Jeisner, Arnold Mossmann, Cora	102 100 102 101 102	$\begin{array}{cccc} 30 & 00 \\ 29 & 41 \\ 30 & 00 \\ 29 & 71 \\ 30 & 00 \\ \end{array}$	*Baker, Cora A. Corkum, Annie B. Corkum, Minnie Eldridge, Jennie Hawboldt, Gertrude *Hirtle Nora	102 100 97 102 88 19	-004300559 29804559 304559 34558 345340
Kennedy, Lois acy, Hattie angille, Aileene angille, Emery angille, Myrtle ohnes, Flossie ohnes, Stella fack, Theresa feisner, Arnold Mossmann, Cora	102 100 102 101 102 88 102	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	*Baker, Cora A. Corkum, Annie B. Corkum, Minnie Eldridge, Jennie Hawboldt, Gertrude *Hirtle, Nora Hennigar, Jessie W.	$102 \\ 100 \\ 97 \\ 102 \\ 88 \\ 19 \\ 80$	4,30,59 28,00,59 34,53 34,53 36,00 30,34,53 36,00 30,34,53 36,00 30,34,53 36,00 30,34,53 36,00 30,34,53 36,00 30,34,53 36,00 37,000 37,0000 37,0000 37,0000 37,0000 37,0000 37,0000000000
Kennedy, Lois acy, Hattie angille, Aileene angille, Emery angille, Myrtle ohnes, Flossie ohnes, Stella fack, Theresa feisner, Arnold Mossmann, Cora Vaugler, Emma Newcombe, Florence	102 100 102 101 102 88 102 102	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	*Baker, Cora A. Corkum, Annie B. Corkum, Minnie Eldridge, Jennie Hawboldt, Gertrude *Hirtle, Nora Hennigar, Jessie W. Hubley, E. M.	102 100 97 102 88 19 80 93	298 0 519 28 0 519 34 5 5 5 5 5 7 7 0 9 34 5 7 5 5 5 5 7 7 0 9 36 0 9 37 0 9 38 0 9 39 0 9 30 0 0 9 30 0 0 9 30 0 0 9 30 0 9 0 0 9 0 0 9 0 0 9 0 0 0 0 0 0 0 0
Kennedy, Lois Jacy, Hattie Jangille, Aileene Jangille, Emery Jangille, Myrtle Johnes, Flossie Johnes, Stella Mack, Theresa Meisner, Arnold Mossmann, Cora Vaugler, Emma Vewcombe, Florence Oickle, Sadie	102 100 102 101 102 88 102 102 102	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	*Baker, Cora A. Corkum, Annie B. Corkum, Minnie Eldridge, Jennie Hawboldt, Gertrude *Hirtle, Nora Hennigar, Jessie W. Hubley, E. M. *Joudrey, Hazel	102 100 97 102 88 19 80 93 102	30 00
Kennedy, Lois .acy, Hattie .angille, Aileene .angille, Emery .angille, Myrtle .ohnes, Flossie .ohnes, Stella fack, Theresa feisner, Arnold Mossmann, Cora Vaugler, Emma	102 100 102 101 102 88 102 102	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	*Baker, Cora A. Corkum, Annie B. Corkum, Minnie Eldridge, Jennie Hawboldt, Gertrude *Hirtle, Nora Hennigar, Jessie W. Hubley, E. M.	102 100 97 102 88 19 80 93	298 301 288 304 59 34 5 59 36 00 34 5 59 36 00 30 59 30 50 30 50 30 30 50 30 30 50 30 30 50 30 30 50 30 30 50 30 30 50 30 30 50 30 30 30 30 30 30 30 30 30 30 30 30 30

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lcQuarrie, Gladys kerry, Jessie B. trumm, Annie	102	30 00	Maclean, Grace	96	$28 \ 2$
rumm, And B.	93	27 36	MacLean, J. Grant	97	28 5
trumm, Annie	102	30 00	*MacTavish, Elizabeth	81	31 7
			Mason, Elizabeth C.	90	26 4
		1	Melvyn, Wilhelmina	102	30 0
_			McInnes, Anna	102	30 0
PICTO	U.		Mitchell, Annie G.	88	25 8
			Mitchell, Jennie	100	-294
NORTH aclellan, Rob	Ι.		*Matheson, Maud	33	12 9
weer Wm D	-		Murray, Grace A	102	- 30-0
aclellan, Robert acLeod, R. H. unro, H. F	E 96	84 72	nae, Janie I.	96	-28.2
ecleod, hobert	96	98 84	*Robinson, Sadia	90	$35\ 2$
unro, H. F.	96	84 72	Stramperg. Johning	101	29^{-7}
anto, H. F. raser, Annie D. axwell, Janie ackay, Lucit, F.	596	$84 \ 72$	"Butnerland, Mrs. Iog. U	7. 101	39 (
arwell Inte D.	97	$57 \ 06$	Butheriand, Bara G.	22	6 4
TAV T TO	11	6 47	Wright, Nellie C.	$\tilde{68}$	20 (
ackay, Luella B. ackay, Luella B. ackae, Alice	102	60 00			201
acRae Mice	$102 \\ 102$	60 00	ANNUITAN	ITS.	
acRae, Alice acRae, Alice cArthur, Olive outilit. Margan	97	57 06			
utherfor, Olive	97	57 06	Fraser, William		60 (
utillier Margaret	97 102	60 00	Gollan, John		60
Carthur, aduriel utherford, Margaret outilier, May ameron, Isabelle J. ampholi Bessie N		44 56	MacKay, John		60 (
ameron abelle J	101	44 56	McArthur, Alex.		60 (
amphali Bessie N	101	$44 00 \\ 45 00$	McDonald, D. W.		60
ameron, Isabelle J. amponi, Bessie N. ampbell, Bessie N. Ille, A. Margaret un, Manie M. aley Manie A	102	$43 \ 56$	Moboliala)		
un, Margaret un, Mamie M. aley, Mamie A. acDon Mary	101	45 00	South.		
aley Mamie A	102				
un, Annie M. aley, Marnie A. actionald, Mabel acinr, Gertrude actions, Jose	102	45 00	Ellis, Russell	102	90 (
eConald, Mabel acIntosh, Jennio	97	42 78	MacLeod, Jeanette	102	90
acinr, Gertrude acintosh, Jennie ackay, Christena	101	44 56	McLeod, John T.	$\overline{102}$	105
ackowh, Jenni	80	35 28	Osborne, N. A.	102	$105 \\ 105 $
	97	4278	Baillie, A. G.	$102 \\ 102$	
acintosh, Jennie ackay, Christena ackay, Marion A.	101	44 56	Bannerman, Margaret	$102 \\ 102$	60
ackay, Christena ackay, Christena ackay, Marion A. ackenzie, Barbara	102	45 00	Clarke, Adelia	$102 \\ 102$	60
ackay, Christena ackenzie, Barbara ackenzie, Barbara ackay, Marjorie acleay, Janie acleay, Adeloid	102	45 00	Coulter, Wm. B.		60
ackay, Janie aclean, Adelaide covicar, J. E.	72	31 75	Demmons, Mona B.	97	57
aclean, Adelaide acVicar, J. E. CCara, Kather:	102	45 00	Emager Attie	102	60
	54	23 81	Fraser, Attie Fraser, Emily M.	102	60
Cus, Katha	97	42 78	Fraser, Winnifred	102	60
	102	45 00	Gunn, Jessie A.	102	60
Unre, Jessie M.	97	42 78	Gould, Lulu J.	102	60
ayne, Marga	102	45 00	Gould, Luid J.	102	60
	102	45 00	Grant, Katherine	101	59
eid, Edna EM.	102	45 00	MacKay, Robetta	102	60
	102	45 00	MacLean, Cassie	102	60
N 9. M 1	-97	42 78	MacLean, Eva S.	99	58
	97	42 78	MacLeod, F. T.	102	60
	97	$42 \ 78$	MacLeod, Gretha	102	60
utherland, Mina	102	45 00	MacPherson, Eliza	102	60
utherland, Mina utherland, Janie ylvester, Jennie W	93	41 01	MacBean, Jennie	102	60
ullester Mennie W	102	$45 \ 00$	MacLean, William	$102 \\ 102$	60
utherland, Mina utherland, Janie Nyester, Jennie W. ully, Et, Mary Saillie, Jennie B regeton, Mary E.	1 97	42 78	Marshall, Margaret	$102 \\ 102$	60
	102	45 00	Miller, Lola D.		60 60
CT TTBP 2 ALL ALL	19 8	28 83	Munn, Nina	$102 \\ 102$	60 60
anton connie R	86	$\frac{29}{33}$ 72	Murray, Sadie A.	$102 \\ 100$	60 60
Diality Apro-	91	2677	Murray, Badle A. Munro, Ethel	102	60 58
Pott A' Christer	102	30 00	Ogilvie, A. Marie	100	58 60
Ber Diene	88		Moud Philin	102	60 60
Chan chan	102	25 89	Maud, Philip Robertson, Edith	102	60 60
Tig JUOVA .	39	40 00	Robertson, Edith	102	60
sugher nie F		$11 \ 47$	Robson, Norman	102	59
Cuple, Clean	92 97	27 06	Reeves, Annie W.	101	60
Marris Marris	97 01	28 53	Savage, Martha	102	60
Cull - Ulian	91	26 77	Thompson, Elizabeth	102	
amblen, Eleanor ohnson, Lillian daccully, F. Peor	71	20.88	Archibald, Blanche	101	44
ohnson, Mary M. GacCully, F. Pearle GacKenzie, Jessie M. GacKenzie, D. A.	36	$10 \ 59$	Archibald, A. D.	98 102	43
M 91800 LOOSLE M	78	22 94	Bryden, Myra	102	45
	99	$\frac{22}{29}$ $\frac{94}{12}$	Ballantyne, Jean	102	45

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Boutillier, Eunice	90	39 69	Murray, Agnes E.	39	$\begin{array}{c} 11 & 47 \\ 19 & 21 \\ 23 & 92 \\ 25 & 89 \\ 30 & 00 \\ 30 & 00 \end{array}$
Cameron, Mary M.	97	42 78	*Munro, Nettie C.	49	23 92
Condon, Josephine Crocket, Annie C.	102	45 00	*Parlee, Marion	61	25 00
Chisholm, Mary M.	102	45 00	Reid, Jeannette M.	88 102	30 00
Cunningham, Leah	$\frac{102}{102}$	45 00	Ross, Minnie	102	30 0
Flynn, Sadie	102	$\begin{array}{rrr} 45 & 00 \\ 44 & 56 \end{array}$	Ross, Isabella C. Sutherland Morry M	102	30 70
Fraser, Gertrude C.	102	45 00	Sutherland, Mary M. Stewart, Mary L.	33	30 00 30 70 30 00 30 00
Grant, Maria	102	45 00	Thompson, W. Percy	102	00
Grant, Etta W.	102	45 00	,,		
Jordain, Catherine	101	44 56	ANNUIT	ANTS.	- 00
Keith, Sylvia Kelly, Marion E.	102	45 00			45 00
MacArthur, Annie M.	98 102	43 22	Jessie Cameron		$ \begin{array}{c} 45 \\ 60 \\ 45 \\ 00 \\ 45 \\ 0 \end{array} $
Machenzie, Emma	97	$\begin{array}{c} 45 & 00 \\ 42 & 78 \end{array}$	McKenzie, A. S. Cruikshank, Jessie		40
MacKenzie, Christena	97	42 78	of this hank, bessie		
MacKnight, Jessie	102	45 00			
Macgillivray, Jane R.	102	$45 \ 00$	QUEE	NS.	
McIsaac, Minnie MacIntosh, Miranda	101	44 56			
MacMillan, Anabelle	$102 \\ 100$	45 00	South	er.	105 00
MacGillivray, A. J.	$rac{102}{34}$	45 00	Marthe D. D.	102	105 00 90 00
McDonald, Margaret D.	$\frac{34}{68}$	$\begin{array}{c}14&99\\29&98\end{array}$	Morton, R. F.	102	
Maxwell, Bessie B.	97	42 78	Mullins, Jennie Baltzer, Mary H.	102	$\begin{array}{c} 60 & 00 \\ 60 & 00 \\ 00 & 00 \end{array}$
Macdonald, Agnes	100	44 11	Harrington, E. B.	102	60 00 60 00
MacEwen, Mary C.	67	29 54	Harrington, Georgie	102	$\begin{array}{c} 60 & 00 \\ 60 & 00 \\ 60 & 00 \\ 60 & 00 \end{array}$
Patterson, Margaret	102	$45 \ 00$	Letson, Marguerite	102	60 00
Robertson, Susie M.	102	$45 \ 00$	Mader, Annie A.	$\begin{array}{c}102\\102\end{array}$	$\begin{array}{c} 60 & 00 \\ 60 & 00 \\ 0 & 00 \end{array}$
Ross, Bessie B. Schultz, Sadie J.	102	45 00	Patterson, Cordelia	105	$\begin{array}{c} 60 \\ 60 \\ 60 \\ 00 \\ 00 \end{array}$
Smith, Isabell C.	$\begin{array}{c} 102 \\ 101 \end{array}$	45 00	Richardson, K. F.	102	60 00 60 16
Sutherland, Lexie	101	$\begin{array}{c} 44 & 56 \\ 45 & 00 \end{array}$	Smith, Sophia Thompson, Lillian	102	60 16 36 00
Turner, Christena	102	45 00	Allen, Mary E.	82	45 10
Wagner, Georgina	81	35 72	Ernst, Florence C.	102	40 ch
Walker, Jennie	102	$45 \ 00$	Freeman, Allene	102	40 10
Ballantyne, Agnes W. Cameron, Hannah	99	29 12	Greenlaw, Marion	99 102	
*Cameron, Rose Anna	$102 \\ 91$	30_{-00}	Hanley, Ruth	102	45 00
Cameron, Ethel	81	$\begin{array}{c} 35 \\ 23 \\ 82 \end{array}$	Hartlen, Ida Huskins, Pearl	102	45 24
Crooks, Helena	96	$\frac{23}{28}$ $\frac{82}{24}$	McGinty, Katherine	102	27 00
Dunlavy, Jennie	85	$\frac{25}{25}$ $\frac{21}{00}$	McLeod, Ethel	62	45 00
Fraser, Laura S.	102	30 00	Osborne, Melissa	102	45 00
Fraser, Margaret C.	102	30 00	Palmer, Queenie	102 102	45 00
*Fraser, Elizabeth E.	53	20 78	Pentz, Harriet	102	45 00
Fraser, William T. *Fullerton, Irene	39	11 47	Rafuse, Gertrude	102	45 00
Graham, Janella	$\begin{array}{c} 67 \\ 101 \end{array}$	$\begin{array}{c ccc} 26 & 27 \\ 29 & 71 \end{array}$	Ramey, Jessie M.	102	30 00
*Green, Elizabeth	68	$\frac{26}{26}$ 67	Wylde, Mary A. Dolliver, Belle	102	455577550000000000000000000000000000000
*Gunn, Martin W.	68	26 67	Freeman, Verta	102_{04}	32 00 30 00 30 23 28 00 28 00 40 40
Jackson, Annie F. *Johnson, Ethel G.	92	$27 \ 06$	*Frazel, Letitia	$\frac{84}{102}$	30 00
Macdonald, Marcella	$\frac{101}{92}$	39 61	Hagan, Matilda	102	28 00
MacKenzie, Ethel A.	92 98	27 06	Hawboldt, Ida	72	30 00
MacKav, Ellen	89	$\begin{array}{ccc} 28 & 83 \\ 26 & 18 \end{array}$	*Manthorne, Mildred	102	10 00
Macleod, Isabel E.	93	$27 \ 36$	Meisner, Hilda	102	40 00 30 71 29 00 30 00
MacQuarrie, Mabel	101	29 71	*Munroe, Effie McLeod, Annie W.	102	20 00
MacQueen, Marjorie	60	17 64	Nickerson, Matilda	$\begin{array}{c} 101 \\ 102 \end{array}$	30 00
McDonald, Katherine	102	30 00	Knynard, Gertrude	102	$\begin{array}{ccc} 30 & 00 \\ 30 & 71 \\ 29 & 31 \\ 24 & 31 \end{array}$
McDonald, Margaret K.	90	$26 \ 47$	Swimm, Mand	101	24 3
*McDonald, Allister McGregor, Minnie C.	55	$\frac{21}{20}$	Laylor, Lillian	62	-
McInnis, Cassie M.	$\frac{101}{102}$	29 71	" walker, Margaret		
McLean, C. Myrtle	102	$\begin{array}{ccc} 30 & 00 \\ 30 & 00 \end{array}$	NORTH	•	an 00
*Miller, Bertha M.	54	21 17	2 • •	102	$\begin{smallmatrix}60&00\\59&41\end{smallmatrix}$
Mills, Martha	102	30 00	Cushing, Alice	101	0-
Murray, Bessie M.	90	$26 \ 47$	Fancy, Lydia		÷.,

	J0010		EDUCATION.		20
Freeman, Winnie Colp, Beatrice					
Colp, Beatrice Freeman, Black	96	50 17			00.00
Freeman, Blanche Johnson, Hilda	90 91	$\begin{array}{c} 56 \\ 40 \\ 13 \end{array}$	Cameron, Marion	102	30 00
	101	$40 13 \\ 44 56$		102	30 00
Johnson, Hilda Patterson, Anne	91	40 13		100	29 41
Patterson, Anne Smith, Harrie	101	44 56		99	29 12
Smith, Harrie	101	45 00	Etienne, George W.	. 91	26 77
Doane, Ada G.	$102 \\ 101$	44 56		90	$26 \ 47$
Doane, Ada G. Ennis, Estella	101	2971		91	26 77
•Ennis, Estella •Frank, Merry	73	21 47		102	30 00
Frank, Merna Froman, Good	91	$\frac{1}{35}$ 68	Gagnon, Evangeline	102	$\frac{30}{20}$
Freema Merna	58	2274	The second se	102	30 00
* Freeman, Gertrude * Freeman, Gertrude * Hartlen, Vertrude Huat, Verta	96	3764	Johnstone, Catherine	102	$\frac{30}{22}$ 00
Hartlen Gertrude		-29.71	Kemp, Annie	86	$25 \ 30$
Hudde, Gertrude Hartlen, Verta Hunt, Beulah Ken, Gladw	$101 \\ 81$	$\frac{1}{31}$ 76	Langley, Gertrude	$76 \\ -76 \\$	$22 \ 35$
Hunt, Beulah Kempton, Abt.	102	30 00		80	23 53
Memptor	88	34 51	McGrath, James J.	102	30 00
*Kempton, Abbie *Rempton, Abbie *Rhynard, Alme		31 37	McKillop, Kenneth A.	97	28 53
Reinynard Mary	80	-3000		96 80	28 24
Rhynard, Alma Smith, Henrietta	102	$30 \ 00 \ 34 \ 51$	Macleod, Marie S.	$\begin{array}{c} 89\\102 \end{array}$	26 18
rietta	88	$34 01 \\ 30 00$	McRae, Jessie A.	73	$\begin{array}{c} 30 \hspace{0.1cm} 00 \\ 21 \hspace{0.1cm} 47 \end{array}$
	102	50 00	Morrison, Ella H.	102	$\frac{21}{30}$ $\frac{47}{00}$
	_		Murphy, Minnie E.	102	30 00
	-		Samson, Florence A.	102	30 00
RICHMO	MD		Samson, Mary Louise	102	30 00
Mackay R	ND.		Samson, G. Fred.	99	29 12
RICHMO MacGay, Katherine E. Barret, Teresa Bourgeois, Henry Myd, C., Henry	109	$105 \ 00$	*Bissett, Clara P.	102	40 00
Bourgeois, Henry Rodden, Christina	102	59 41	*Burke, Sarah S.	102	40 00
Boyd, Christina Boyd, Christina Boyd, Christina Boyd, Annie F	101	60 00	*Coffor Mary B	83	32 55
M Uh COrv	102	60 00	with the - Leggin IV	102	40 00
Bonden, Astina	102	60 00	*Macaulay, Ada	102	40 00
Bis. 9 1.0 C P.	102	60 00	*McLean, Mabel	88	34 51
Bitale, Even E.	$102 \\ 100$	45 00	wW.Dhangon Karbara	83	32 55
Way	102	45 00	*Morrison, Michael E.	71	27 84
Vie, Alice Patricia Poret, Charles J. Gagnon, Alfred C	102	45 00	L 1/2 1 Jand Donald A	102	40 00
	$102 \\ 109$	45 00			10 00
Poret, Charles J. Gagoo, Alfred G. Kayanagh, Maud	$102 \\ 102$	45 00		ITS.	
0.6400 -41168 1 -000 111	.102	45 00			
Gadon, Alfred G. Kavanagh, Eva C. LeBlanc, S. E.		45 00			45 00
Aavanagh, Alice Maud Ayte, Angela E. Algunc, S. Rose McGillivray, M. Rose	$\begin{array}{c} 102 \\ 102 \end{array}$	45 00			45 00
eRi, Angel Va C.	102	45 00			60 00
Mechane, Sela E.	$102 \\ 102$	45 00			00 00
Helino, John J. McKilloray, M. Rose McKilloray, M. Rose McKillor, Swen D. McLeod, Peten J. McLeod, Peten	$102 \\ 102$	45 00			
Kellop, Ewen D. Keleod, Peter A.	102	45 00			
Veleod, Peter A. Maleod, John R.	$102 \\ 102$	45 00	SHELBURI	NE.	
Veleci, Poter A. Veleci, Peter A. Vacueil, Minnie A	40	17 64			
Machail, John A.	102	-45.00	McLeod, A. N.	102	105 00
Machell, Mins. R.	50	-22.05	Allen, Jane R.	102	60 00
Alecod, Peter A. Macod, John R. Macodi, John R. Macodi, Minnie A. Macodi, Florence Mothourquette, Mar	102	$45 \ 00$	Capstick, Grace	$102 \\ 102$	60 00
Min ence	102	45 00	Hirtle, A. G.	102	59 70
Machal, Florence Monoiurquette, May Monoiurquette, May Murphon, Annie Nelkon, Margaret A	102	45 00	Hogg, Augusta A.	1013	60 00
Murphy, Margaret A. Addition, Geod	102	45 00	Smith, Annie S.		
Nelson, Annie Nelson, J. Scott Addition, Scott Pomion Ceorge	102	45 00	Atwood, Maude L.	46	$\begin{array}{ccc} 27 & 05 \\ 23 & 81 \end{array}$
		45 00	Barclay, Josie P.	54	
Addition, Geout	102	45 00	Bent, Roland L.	102	45 00 40 57
Power al forge J	48	$21 \ 16$	Bruce, Arthur C.	92	40 57
Neid Mary last term		4 25	Etherington, Lillian	101	45 00
Adenso, J. Scott Politicon, George J. J. Power, Mary Gertrude Banson, Marie Olive Annson, Mary E. Bere, Minnie F.	102	45 00		102	45 00
Widson Mary Pe	102	45 00	McKay, Maude A.	$\begin{array}{c}102\\102\end{array}$	45 00
A like i April 4	102	45 00		102	45 00
	102	45 00	Rawlings, Adina	102	45 00
1. 20 1. 1. 46.	102	45 00		102	45 00
1 MORA VIVAN I SALL	98	$\frac{10}{28}$ $\frac{00}{83}$	Turner, Flora	102	45 00
Ceranger, Minnie E. Boyd, Herver M. Cameron, Ida W. Cameron, Ida W.	101	29 71	Walls, Gertrude	102	45 00
Goyd, Hervey M. Caneron, Ida W. Caneron, Hervey M. Caneron, Henrietto J	24	7 06	Barkhouse, M. I	102	30 00
Cameron, Ida W. Cameron, Ida W. Cameron, Henrietta J. Cameron, Katie A.	73	21 47	Bethune, Annie B	54	15 87
A.	102	30 00		102	30 00

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			1		24 31 29 61 27 36 29 00 30 00 30 00 30 00
Bruce, J. Wilfred	81	23 82	*Miller, Lois M.	62	29 61
Bruce, Mary M.	18	5 29	Nickerson, Goldie G.	1005	27 30
Coumans, Emily R.	88	$25^{-}89$	Nickerson, Clara G.	93	29 60
Craig, Gertrude M.	13	3 82	Spanks, Carrie	101	30 00
Davis, Hattie H.	102	30.00	Spinney, Amy L.	102	30 00
Decker, Bertha C.	102	30.00	Thomas, Helen L.	$102 \\ 102$	30 04
Downie, Eula M.	97	$28_{-}53$	Thorburn, Kathryn	102	
Firth, E. Louise *Firth, Alice W.	102	30 00			
Freeman, Louise	92	36 08	ANNUITAN	rs.	45 00
Goodwin, Effie V.	100	29 41	34 .1		40
Harding, Laura M.	101	29 71	Matheson, W. H.		
*Harding, Wilhelmina	$102 \\ 100$	30 00			
Holden, Mary E.	$102 \\ 35$	40 00			
Houghton, Jean	102	$\begin{array}{c}10&29\\30&00\end{array}$	VICTOR	r A	-1
Kavanagh, Elinor A.	102	29 71	VICTOR	[/].	99 ⁸⁵
Kempton, Bessie H.	81	$\frac{23}{23}$ $\frac{71}{82}$	MacLean, Christina O.	97	
Locke, Alice	$\tilde{94}$	23 62 27 65	Fraser, Margaret	102	60 14
McGuire, Maggie I.	102	$\frac{21}{30}$ 00	McDonald, M. B.	102	
McKay, Gertrude A.	100	29 41	MagLood Darris M	89	45 00
*McKay, Elizabeth B.	75	$20 41 \\ 29 41$	MacLeod, Bessie M.	102	43 2
McKenne, Lulu	102	$\frac{29}{30} \frac{41}{00}$	Hennessey, Martha J. Huntley, Edna	98	43 11
*Purney, Helen J.	102	40 00	Huntley, Edna MacAskill, Flora B	98	44 18
Shupe, Ianthe	102	30 00		100	44 78 42 78 45 00
Thomas, Genevieve	102	30 00	MacAulay, Jessie Macdonald, Louise	97	90 00
Thorburn, Marion R.	102	30 00	McDonald, Katherine A.	102°	AU A
,	102	50 00	McInnis, Dan F.	102	40
Annuitan	VTS.		McInnis, Wm. C.	102	97 - E
			MacIntosh, Jessie	101	44 00
Goodick, J. D.		45 00	MacIntosh, Annie I.	101	40 90
McMillan, Elizabeth		45 00	MacKenzie, Margaret M.	$102 \\ 05$	41 61
			McKenzie, Agnes J.	$\frac{95}{31}$	14 56
BARRINGT	ON.		MacKenzie, Annie S.	101	15 00
Plash D t br			MacKenzie, Emeline L.	101	12 1
Black, Pearle M.	102	$60 \ 00$	McLeod, John D.	29	45 00
Fox, A. D.	101	$59 \ 41$	Mattatall, Daisy	102	21 10
Frost, Georgia B.	102	60 00	Montgomery, Sadie	48	45 00
Oulton, Millage	102	60 00	Nicholson, D. J.	102	33 0
Bacon, Agnes S. Black, Rose C.	102	45 00	Ross, May Lily	75	45 14
Brannen, Lennie M.	102	$45 \ 00$	Ross, Maggie	102	18 11
Doleman, T. W.	101	44 56	Watson, Ella May	46	26 10
Giffin, Grace M.	101	44 56	*Bethune, Roderick O.	91	30 29
Goodwin, Genesta E.	102	45 00	Bethune, Gordon	102	15 00
Hogg, Garnet W.	102	45 00	Boyle, Cecilia M.	39	30 <u>5</u> 0
Hopkins, Bella L.	102	45 00	*Campbell, Alex. R.	102	0 61
Jacques, Giles V.	$\begin{array}{c} 102 \\ 102 \end{array}$	45 00	Campbell, Jean E.	19	20 00
Nickerson, L. Isora	102	$\begin{array}{c}45 & 00\\ 45 & 00\end{array}$	Gillis, Margaret	68 19	40 81
Nickerson, Sadie B.	102	45 00	*Hutchison, Margaret	102	39 53
Nickerson, C. Netta	102	45 00	*McCaskill, Jessie H.	101	20 00
Nickerson, Nettie M.	102	45 00	*MacAulay, Katherine	80	30 00
Nickerson, Bessie Swim	66	29 10	MacAulay, Annie F.	$102 \\ 68$	20 24 08 24
Ross, Beulah B.	102	45 00	Mecharles, Malcolm	96	28 50
Thomas, Elvah B.	102	4500	Macdonald, Malcolm Macdonald, Mary Letitia	90 97	20 00
Brannen, Ruby V.	101	29 71	Macdonald, Mary 10	102	20 50
Brannan, Pearle V.	102	30 00	Macdonald, Stanley McDonald, Florence	70	10 10
Golden, Lola D.	- 90	26 47	MacGillinnan Bassie A.	102	35 01
Goodwin, Berenice A.	99	29 12	MacGillivray, Bessie A. *MacGregor, Mary A.	91	29 00
*Harding, Muriel A.	901	35 49	*MacGregor, Maly Willena R.	101	40 03
Hopkins, Eva B.	102^{2}	30 00	*MacGregor, Mary *MacGregor, Willena R. McIvor, Louise C.	102	145413442424334823353524433238282828243241260088 14541344524348253482335352432282828282828282828282828 1454134452453482835235248528528328282828282828282828282828282828
Hopkins, Anita W.	102	30 00	*MacTuon Mary Au	44	36 00
*Kenney, Mary O.	91	35 68	MacKay, Wm. Kemp	92	10 00
Knowles, Meda L.	102	30 00	*McLeod, Dan A. Abbie	34	10 0
Locke, Louise, M.	102	30 00	*McLeod, Dan A. McLeod, Catherine Abbie McLeod, Catherine	34	25 "
McGinnis, Annie H.	102	30 00	McLeod, George	87	
McGinnis, Gladys R.	102	30 00	MacLeod, George MacLeod, Katherine		
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	J0010		EDUCATION.		
MacLeod, Belle C. McLennan, Margaret D					
AcLeond, Belle C. AcLennan, Margaret R. McLennan, Hannah					
Metennan, Ma	102	30 00	Dorrie, Gladys A.	102	$45 \ 00$
M Mulan Tr Saret R	102	$30 \ 00$	Goudey, L. Ada	81	$35 \ 72$
McRitchie, Dan J. Matheson, Murdoch A	102	30 00	Hardy, Ruby A.	102	45 00
	91	35 68	Kean, Evelyn S.	102	45 00
Watheson, Dan J.	97	38 04	MacKay, Janet McP.	93	41 01
Maller, Ch. Murdoch A	81	31 76	Mills, Mary E.	102	45 00
Miller, Christina J. Miller, Christina J. Morrison, Joanna B. Morrison, Annie M. Morrison, Johnipa	102	40 00	Moses, Agnes	102	45 00
au Joanna B	18	5 29	Mussells, Dora R.	102	45 00
Morrison, Annie M. Morrison, Johnina Netgomery, Christing	102	30 00	Platt, Ada M.	102	45 00
Nelson, Custave Adolp	102	35 68	Roach, Flo. L.	102	45 00
Weith, Edpan, C. Margaret	91	24 12	Rogers, Nellie S.		3 97
	82	40 00	Scott, Martha	9	
Waith C. Manadolp	h 102	$\frac{40}{22}$ 94	Smith, Elsie B.	$100\frac{1}{2}$	44 34
Water, Edgar B	78		Swaine, Mysie M.	$19\frac{1}{2}$	8 59
Watcon, C. Margaret Watcon, C. Margaret Watcon, Annie	25	9.80	Wyman, C. Winnifred	102	45 00
Waith, Edgar B. Wateo, Adnie "Kempt Head?" Consolid tion, "D",	87	34 11	*Delver Conic A	102	$45 \ 00$
uon, "D", Consoli	da-M 🗄	· · ·	*Baker, Genie A.	73	$28 \ 63$
	96	$28 \ 24$	Cameron, Margaret	102	30 00
			Churchill, Addie M.	93	$27 \ 36$
			Crosby, Marion	101	29 71
			*Deveau, Louise	63	24 70
Allen, L.	тн		Doane, Lavina P.	88	25 89
	* TT'		Ewan, Hedley J.	102	30 00
Bingay, Norna B. Blackadar, G. D. Hall, Flor, G. D.	109	60 00	Hamilton, J. E.	68	20 00
BL GUY N	$102 \\ 102$	$\frac{00}{75}$ 00	Hatfield, Lizzie V.	97	28 53
Hall, Florence B. Kemper, A. W.	$102 \\ 02$	61 02	Hurlbert, Bessie R.	87	25 59
Hen, Florid, G. D.	83	87 36	*Hyson, A. E.	19	7 44
	99		McGrav, A. Edna	102	30 00
Hau, Florence B. Romer, A. W McGray, M. W. Spinney, M. W. Tokey, Marv E	96	70 60	*McGrav, Fannie E.	102	40 00
N	102	75 00	Porter, Herman L.	59	17 35
Pinner M. W	95	97 79	Purney, Maria I.	102	30 00
	102	75,00	Smith, Marjorie C.	102	30 00
Ayman Beatrice	102	$75 \ 00$	Smith, Marjone et	91	
ppiney, M. W. Vokey, Mary E. Wyma, Reatrice Allen, Georgie W. Blackada 's	3	2 20	*Turner, Johanna B.		35 68
Dien Georgie TT	98	86 49	Wetmore, Ralph H.	102	30 00
Hen, Seorgie W. Blackadar, S. B. Bond, Mary G. Churchill Y. G.	102	$60 \ 00$	Winter, Maude E.	102	30 00
boud har, K T-	102	60 00			
Course Mary C. K.	102	60 00	ANNUITANTS.		
Course Voi	102	60 00			
Cossiti Nota L.	44	25 88	Hilton, Mary M.		45 00
Slackadar, K. K. Bond, Mary G. Churchill, Vera L. Courchill, Vera L. Courchill, Nelson Orinp, Laura Dicon, J. Jonton	102	60 00	Munro, J. H.		75 00
OF, Lauron B.	102	60 00			
orimp, U. Von B. D'Eon, J. Quara Doane, Lora Ellenwood	102	60 00			
	102	60 00			
Ben, J. Octave Deane, Lora Glenwood, M. H. Goudey, Effic B. Griego, Alice A.		60 00	ARGYLI	E.	
Grad Win 241 F	102	60 00			
Gridey, Alitie B	102	59 41	D'Entremont, Rhoda M.	102	60 00
Bonison alice A	101	60 00	D'Eon, Stillman L.	11	6 47
B, PRIDA DEAD F	102	60 00	Doane, Jennie A.	102	60 00
Incette m. J	102	57 65			
Janis, Relannah	98 95	14 70	Frost, Isabel F.	$102 \\ 00$	60 00
Kins Dt. E	25	50 41	Morse, E. P.	88	51 76
M. nev - J	101	59 41	Ricker, Charlotte E.	$101\frac{1}{2}$	$59 \ 70$
M	102	60 00	Scott, Anna	101	$59 \ 41$
piceod' Jean	102	60 00	Sister Victoire	102	60 00
Patt, P. A. J	102	60 00	Amirault, Simon A.	86	37 92
P. Thoresie H	102	$60 \ 00$	Amirault, Eva A.	102	45 00
Platod, J. Jean Platod, A. J. Raymond, Luella Roynolds, Avis E. Roynolds, Avis E. Smithson, Winifred Allan, Chaninifred Brown, Francosc G.	102	60 00	Babin, Eugenie L.	102	45 00
Robins, Avia	102	60 00	Bourque, Elizabeth	102	45 00
Abinson, Avis E. Bnith, Charlotte G. Brown, Mandes L.	102	60 00	Bourque, Mary A.	102	45 00
Blan Dharlottred	101	59 41	D'Entremont, Edna C.	100	44 11
Allth. Charlotte G. Brow, Frances L. Brow, Maude S. Cyant, Arletta	102	60 00	D'Entremont, Mary A	102	45 00
	102	45 00	D'Eon, Laura F.	102	45 00
Chindle 1 and 0	73	32 19	Floyd, A. Pearle	102	45 00
crossian, A	102	45 00	Frost, Charlotte W.	102	45 00
Chipman, Arletta Chipman, A. J. Croeby, Jessie H	102	45 00	MacKay, Nettie M.	101	44 56
Crosby, Mildred	78	45 00		102	45 00
Croeby, Jessie H. Delamere, S. P.	102	34 40	Melanson, Bertha E.	102	45 00
Delamere, S. P.		45 00	Mius, Mary N.	102	45 00
	102	45 00	Nickerson, Charlotte		40 00

Nickerson, Nellie G.	99	43 66	Babin, Mary T.	102
Pennington, J. G.	$\tilde{72}$	31 75	Belliveau, Genevieve	102
othier, Therese E	102	45 00	Belliveau, Mary	102
urdy, Lennie S	77	33 69	*Blanchard, Sophie	54
cott, Margaret	101	44 56	*Bourque, Rosie	102
lister M. Elisa	$\tilde{1}\tilde{0}\tilde{2}$	45 00	*Brannen, Ruby V.	21
" " Eugenie	102	45 00	D'Entremont, C. M.	102
" " Seraphia	102	45 00	D'Entremont, Hattie L.	91
urette, Rose D.	102	45 00	*Duncanson, L. L.	50
bibodeau, Beatrice	102	45 00	Goodwin, Rosa P.	102
'homas, Ida M.	101	44 56	Hogg, Jennie A.	102
Valsh, Margaret	102	45 00	Levandier, V. D.	89
mirault, Rose I.	102	30 00	Pothier, M. Annie	102
mirault, Terese M	102	30 00	*Reeves, Flora D.	51
mirault, Muriel A.	102	30 00	*Ross, Georgie D.	561
Babin, Chantale	102	40 00	Shields, Dorinda F.	102
abin, Bertha	78	$22 \ 94^{+}$	Surette, Nemerise	102

EDUCATIONAL LEGISLATION, 1910.

AMENDMENTS TO THE EDUCATION ACT.

No. 2

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BILL.

1910.

An Act to Consolidate the Amendments to The Education Act.

Be it enacted by the Governor, Council, and Assembly, as fol-was: \sim lows:-

1. The Education Act, Chapter 52 of the Revised Statutes, $100, i_{\rm B,h}$ Education Act, Chapter 52 of the Revised Statutes, 1900, is hereby amended in the manner set forth in Schedule A herein.

². The enactments set forth in Schedule B hereto are repealed.

SCHEDULE A.

Section 5.—By adding thereto the following subsection:—

"(21.) On the recommendation of an inspector, supported parts of sections will effect a saving in the amounts to be paid out of sections will effect a saving in the provincial aid grant, out of sections will enect a saving in the unionnes to be part, the of the municipal school fund and the provincial aid grant, the Council may, notwithstanding any provision of the Edu-cation uncil may, notwithstanding any provision of the said cation Act, make regulations for the granting out of the said nunicipal and provincial grants such amounts as in the opinion of the residuation by of the inspector are necessary to maintain the said union by adding inspector are necessary to maintain the said union by adding the conveyance from beyond a distance of two miles from the conveyance from beyond a distance of the quired the school house, provided the respective amounts so re-Quired are less than the respective amounts which would other-wise have less than the respective amounts which would otherwise be drawn from the same sources." (1903-4, C. 8, S. 2.)"

By inserting immediately after section 6 the following section:

Advisory Board of Education.

"6A. (1) There shall be a board, consisting of seven per ns, which shall be known as (177) sons, which shall be known as "The Advisory Board of Education" and shall perform the duti tion'' and shall perform the duties mentioned in this section

(2) Two members of the Board shall be elected by the ensed teachers engaged in target licensed teachers engaged in teaching in the public schools in attendance at the Provincial Education and attendance at the Provincial Educational Association, and shall be licensed teachers actually engaged in teaching in Novs Scotia; five members of the said Possid Possid Possid Possid Scotia; five members of the said Board shall be appointed by the Governor-in-Council

The duties of said Board shall be to advise the council (3)and the superintendent as to the following matters;

(a) Text books and apparatus for use in the schools, books r school libraries. for school libraries.

(b)Qualification and examination of teachers.

(c) Courses of study for the public schools and the standard r admission to county academics and the standard for admission to county academics and high schools.

(d) The classification, organization and discipline of the rmal school, county academies and the discipline. normal school, county academies and the public schools.

(e) Such other educational matters as may from time council, ne be referred to them by the current as may from the council, time be referred to them by the superintendent or the council.

(4) Members of the Board shall hold office for two years it shall be eligible for realised but shall be eligible for re-election or re-appointment,

The Board may make regulations for the time, place induct of its meetings and conduct of its meetings. Four members of the Bost shall constitute a quorum.

The members of the Board shall receive from any tial treasury such sums are them for any provincial treasury such sums as will indemnify them for any expenses incurred by them normal indemnify them of atter expenses incurred by them respectively by reason of attendance at the meetings of the Board in the section of a stream of the Board in the section of a stream of the Board in the section of a stream of the Board in the section of the secti

Section 11, sub-section (b) By repealing it and substituting erefor the following subsection:therefor the following subsection:-

To annex to any incorporated town for school put rritory lying beyond the transformed to the town and not poses, territory lying beyond the limits of the town and forming part of any other school section, and also any existing school section or part of a school section." (1903, c. 6, s. 1.)

Section 14—By repealing it and substituting therefor the following section :---

"14. Every district board shall at its annual meeting determine, subject to the recommendation of the inspector, what sections under its supervision are entitled to special aid as poor sections, during the following school year." (1903, ^{c.} 6, s. 2.)

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Section 16, sub-section (2)—By repealing it and substituting therefor the following subsection:

· "(2) Notice of the next annual school meeting after any such sub-division or union, or of a special annual school meeting, if +1 if the date of the regular annual meeting is past or inconvenient, shall be given by the inspector; and such meeting shall elect a board of three trustees and transact all the other business of +1of the regular annual school meeting for the ensuing school $\frac{1}{1003}$ (1903, c. 6, s. 3: 1906) year, for the new section or sections." (1903, c. 6, s. 3; 1906, c. c. c. 8, s. 1; 1909, c. 18, s. 4.)

Section 21, sub-sections (1) and (2)—By repealing them and substituting therefor the following sub-sections:-

"21 (1). Except as in this section otherwise provided the regular annual school meeting of every school section shall be held: held in the school house of the section, on the last Monday in J_{Unc}

(2) The Council may in the case of any inspectorial division, county or school section, fix an earlier day for the holding of such such meeting. (1902, c. 39, ss. 1 and 2).

Section 23.—By repealing it and substituting therefor the following:

 $^{\prime\prime}23$ (1) The resident rate payers, male and female, of the section present at any school meeting shall elect from their o_{Wh} . The residence of the section present at any school meeting shall elect from the meetown number or otherwise a chairman to preside over the meeting, and a secretary to record its proceedings.

 $\binom{(2)}{all}$. The chairman shall decide all questions of order and shall take the votes of resident ratepayers only, except as in this chart Chapter otherwise provided in the case of the election of trustees; he shall not vote except in case of a tie, when he shall have the casting vote. (1907 c, 38, s. 1.)"

Section 24, sub-section (1).—By repealing it and substituting therefor the following sub-section;-

(1) If any person who offers to vote at an annual of bair bair"24 other school meeting is challenged as not qualified, the chair man presiding at such a man presiding at such meeting shall require the person of offering to make the fall offering to make the following declaration:

"I do declare and affirm that I am a ratepayer residing in is school section: that I have resident in a ratepayer resident this school section; that I have paid all sectional school rates for which I have been rated and the all sectional school rates for which I have been rated and that I am legally qualified to vote at this meeting " vote at this meeting."

Every person who makes such declaration shall be permitted vote on all questions proposed to vote on all questions proposed at such meeting; but if any person refuses to make much detailed at such meeting; but he reperson refuses to make such declaration his vote shall be re-jected." (1907 c. 38 c. 2, 1000 jected." (1907 c. 38, s. 3, 1906 c. 8, s. 2.)

Section 28, sub-section (3).--By repealing it and substituting therefor the following sub-section :---

"(3) If there are no trustees in a section the inspector of hools may, on the requisition of schools may, on the requisition of seven ratepayers, or in the there are less than fourteen notes. there are less than fourteen ratepayers in the section, on the requisition of the majority of set requisition of the majority of ratepayers, call a special annual meeting under the foregoing meeting under the foregoing provisions and limitations. (1903 c. 6, s. 4) (1903 c. 6, s. 4).

Section 37, sub-section (2).—By repealing it and substituting erefor the following sub-section: therefor the following sub-section:---

"(2) The board of trustees thus appointed shall, if per terms ry or if required by the increase the rest in the rest. sary or if required by the inspector, call a meeting of the rate payers of the section in the payers of the section, in the manner provided for calling annual meeting, and such meeting. annual meeting, and such meeting shall transact all business, except the election of trustees except the election of trustees required of the annual meeting, and meeting, and in the same manner." (1903, c. 6, s. 5).

Section 42.—By repealing it and substituting therefor the for lowing section :---

"42.—The trustees of any section, with the permission of e inspector of schools. may in the drift to school the inspector of schools, may in their discretion, admit to school privileges, pupils whose parents privileges, pupils whose parents or guardians reside outside the section, and if the trustees door they may exact the section, and if the trustees deem it proper, they may exact from such pupils a reasonable it proper, they may exact s. 3) 8. 3).

Section 55, sub-section (b).—By repealing it and substituting therefor the following sub-section:---

"(b) To contract with and employ a licensed teacher or teachers for the section, and where necessary licensed assistants, for a period not less than one year; provided, however, that for special cause, with the consent of the inspector, trustees may employ a teacher for a shorter period." (1907, ^{c. 38}, s. 4.)

By inserting immediately after Section 55, the following section;—

"55A. Every public school building shall be available, free of charge, for the purposes of the local technical schools and schools for miners and engineers, provided that such use of Public school buildings shall not interfere with the carrying on of schools under the Act hereby amended. (1909, c. 18, 1) ^{8.} 1.)

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 $\frac{S_{ection}}{C_{tion}}$ 59.—By repealing it and substituting the following Bection :-

"59. The secretary of trustees shall give a bond to His Majesty with two sureties, subject to the approval of the inspector, in a sufficient sum for the faithful performance of the duties of his office and such bond shall be lodged with the in-in a larger sum in the place of the bond as lodged. m_{Av} is the place of the bond as lodged. may be in the form in the fifth schedule or to the like effect, Such bond and unless sooner terminated by the sureties or either of them according to law, it shall not be necessary to give any new bond, annually or otherwise, unless required by the inspector, so long (1909 c 18 s 2) long as the secretary is re-elected to office." (1909, c. 18, s. 2.)

Section 63.—By repealing it and substituting therefor the following section :---

"**63**. The trustees shall have power, when authorized by a School meeting, to borrow money for the purchase or improvement of grounds, for school purposes, or for the purchase or build: building of school houses; and all such amounts, so borrowed, shall go f school houses; and all such amounts, so borrowed, shall be repaid with interest by such number of equal yearly instal instalments, not exceeding twelve, as is determined by such meet: the ratable property in the school section." (1903 c. 6, s. 6.)

By inserting immediately after Section 67 the following section :---

"67A. or the supervisor of the schools, of any school section in super-The time employed by the principal of the schools

vising or grading the schools, the time employed by teachers of his staff who are required to assist in the grading of any of the departments, the time teachers are in attendance at certain educational institutes with the consent of their trustees, and the time lost by the necessary closing of a school on account of such conditions as the presence of contagious disease, shall be reckoned as authorized teaching time in lieu of actual teach ing on authorized teaching days, according to the conditions prescribed by the Council.'' (1901 c. 37, s. (2); 1906 c. 8, s. 7.)

Section 68.—By repealing it and substituting therefor the following section:—

"68. Every legally qualified teacher employed in a public school, conducted according to law, shall be entitled to receive annually from the Provincial Treasury, the following sums, or such proportion thereof as the number of days taught by such teacher bears to the prescribed number of teaching days in the school year. Said sum shall be paid in semi-annual in stalments:---

For Class	D in any public school \$ 90.00 C """" 120.00 B """" "120.00 A in a superior common or high school of 150.00
••	C " " $120.$
"	B " " " "
	A, in a superior common or high school of prescribed status
	prescribed status.
"	Academic, in high school of prescribed status
"	Academic, in high school of prescribed bi- Academic, when principal of the high school
	of prescribed status in a section having at 210.
	Academic, when principal of the high school of prescribed status in a section having at 210.0 least three departments
	(1906, c. 6.)", fot
	the to

Section 69.—By repealing it and substituting therefor ^{tr} lowing section:—

"69. Any teacher of class Academic, A or B who has graduated from the rural science course in affiliation with the provincial Normal School, in the course of instruction prescribed by the Council, and is regularly employed in a public school with the appropriate equipment giving a special course instruction in agriculture, as prescribed by the Council, the in the distribution of the provincial grant referred to is aid next preceding section be ranked on the pay list of the sof grant as, respectively, of the lower, higher or highest rank of teachers of classes A and Academic according to the equipment of the school and the agricultural instruction therein as to ported by the inspector of schools whose duty it shall be to inspect such schools and classify the same as "fair," "good" or "superior." (1905 c. 19, s. 1; 1906, c. 8, s. 3.)

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Section 71.—By repealing it and substituting therefor the following section :---

"71. When the trustees or commissioners of any school section provide a department for manual training in any of the mechanical or domestic arts, with adequate equipment for at least twelve pupils at the same time, and have employed a teacher certified by the Council to be competent to give practical instruction therein, and have caused such instruction to be given free for one session of two hours each week to the residents of the section, and have in these and in all other respects efficiently conducted the public schools of the section in any the Council may pay out of the in accordance with law, then the Council may pay out of the Providence with law, then the trustees or commissioners. in Provincial Treasury to such trustees or commissioners, in semi Semi-annual instalments or otherwise, as determined by the Council, a sum of fifteen cents for each two-hour lesson to each Pupil, provided that the whole amount so paid out of the Provincial Treasury to such trustees or commissioners shall not, in any year, exceed six hundred dollars; except in the cases of any section the schools of which are affiliated with the Provincial Normal School and of the City of Halifax, in which two cases the amount shall not in any year exceed twelve hundred dollars.", (1901 c. 37, s. 1.)

By inserting immediately after Section 71 the following section :----

"71A.—(1) Every poor section determined under the $\frac{1}{2}$ the Act hereby amended and the provisions of section 14 of the Act hereby amended and the amendments thereto, which

(a) with or absorbed into another school section or other school as isolated so as to be clearly impossible to be united ^{sections,}

(b) is rated for sectional school rates on property assessed at a value of not more than \$3,000,

(c) bas

has not within its bounds more than twelve families,

(d) of not less than two per cent on the property ratable for secvotes and collects for current school expenses at a rate

tional school rates, shall be known as a special poor section.

(2) There may from time to time be paid to any special poor There may from time to time be paid to the mendation out of the Provincial Treasury, upon the recommendation out of the Provincial Treasury, upon Council of the Inspector, and the authorization of the Council of Public Instruction, such grant in addition to the

extra aid provided for poor sections by this Chapter as may be recommended by the Income recommended by the Inspector; provided, however, that in no case shall the said grant exceed the case shall the said grant exceed the amount voted and collected by the section as sectional and the by the section as sectional school rates, nor in any case the sum of \$60.00'' (1000 - 10 sum of \$60.00." (1908 c. 13, s. 1.)

Section 72.—By repealing it and substituting therefor the forwing section: lowing section:-

"72 (1). The clerk of the municipality of every county district shall annually add to the or district shall annually add to the amount required for county purposes, but distinct from all other purposes, but distinct from all other amounts required for such purposes, a sum sufficient after h purposes, a sum sufficient after deducting the estimated to of collection and probable loss, to yield an amount equal to thirty-five cents for every inhelia thirty-five cents for every inhabitant according to the last census of the municipality and of all interest of the municipality and of all interest of the second s of the municipality and of all incorporated towns which before incorporation territorially formed incorporation territorially formed part of such county or district.

The said sum shall be divided between and borne pro, nicipality and the income the municipality and the incorporated towns in the same pro-portions as the county fund portions as the county fund, under the provisions of the Towns Incorporation Act, and the Access Incorporation Act, and the Assessment Act and amendment thereto respectively, and shall be all be and an amendment thereto respectively, and shall be collected in the same manuel as other rates and taxes.

Notwithstanding the provisions of any statute, every incorporated town shall annually, on or before the thirtieth day of June, pay to the treasurer of the there is a lity of the day of June, pay to the treasurer of the municipality of ally county or district of which it before county or district of which it before incorporation territorially formed part, its proportionate part of the

The sum so raised by the municipality and incorpolated shall be paid out annually for the towns shall be paid out annually for the support of schools by the treasurer of the municipality was the support of the superior the treasurer of the municipality upon the order of the superior tendent, and shall be called the treasurer of the superior tendent, and shall be called the Municipal School Fund.

The council of any municipality may, by resolutions the municipal school fund to the max not exceeded ents for increase the municipal school fund to any amount not exceeding sixty cents for every inhabitant sixty cents for every inhabitant according to the last central that the the second to the second the second to the second the the second to the second the the second the the second to the second the the second to the second to the second to the second the second to the of the municipality and incorporated towns, provided that be Council of every incorporated town affected by the increase, concurs in such resolution, or if and affected by the increase by concurs in such resolution, or if such concurrence cannot by obtained that the Governor-in-Council, upon application, (1903, the municipality concurs in such the municipality concurs in such proposed increase."

Section 75, sub-section (2).—By repealing it and substituting therefore T_{theref} therefor the following sub-section;-

"75—(2) Every school section shall be entitled to participate therein at the rate of twenty-five dollars per year for every licensed teacher employed, and a sum not exceeding twentyfive dollars, according to the recommendation of the Inspector for each school garden kept up to the standard of form and efficiency prescribed by the Council, and the balance of such fund shall be distributed among the school sections according to the average number of pupils in attendance at schools in such sections, respectively, and the length of time such schools have been in operation during the school year, but no such school section shall shall receive any additional allowance in respect to any school On account of its having been in operation more than the prescribed number of days in any year." (1905 c. 19, s. 2.)

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Section 76, sub-section (1).—By repealing it and substituting therefor the following sub-section:-

^{76.} (1) Subject to the provisions of this Chapter, the Superintendent shall allow to the trustees in any section, en-titled one-half more from the titled to special aid as a poor section, one-half more from the municipal school fund than the allowance to other sections, and teachers employed in such poor sections shall receive one-third (1904, c. 8, s. 5)

third more from the provincial grant. (1904, c. 8, s. 5.)

Section 77.—By repealing it and substituting therefor the following section :---

"77.—Any amount required by a section over and above the sums provided out of the Provincial Treasury and municipal school fund, for the support and maintenance of a public school or schools during the school year, including the following objects, that is to say:-

(a) the purchase or improvement of school sites or grounds.

 $\begin{pmatrix} b \\ sol \end{pmatrix}$ the purchase, erection, furnishing, cleaning or repairing of school houses and outbuildings,

(c) rent of buildings or lands,

(d) insurance on school property,

 $_{r th}^{(e)}$ the purchase of fuel, prescribed school books, books for the school library, maps and apparatus,

repayment of money borrowed by the section and t thereon. (**f**) interest thereon,

(g) teachers' salaries and pensions.

(h) compensation to and repayment of expenses incurred by the trustees, for or in discharge of the duties imposed up them by the provisions of the duties imposed up them by the provisions of the duties imposed up the duties imposed them by the provisions of this Chapter as to compulsory attend ance at school and the past of ance at school, and the cost of conveying children to school, and

any other expenditure necessary in providing an efficiency of school or schools in accorder cient school or schools in accordance with the provisions of this Chapter,

(j) any necessary expense for the periodical dental and internations of the periodical dental dental and international dental dental dental dental dental and international dental denta general medical examinations of the pupils attending school,

shall be determined by a majority of the ratepayers present at a regularly called school mosting. a regularly called school meeting. (1902, c. 39, s. 3; 1906, c. 8, s. 4; 1907. c. 38, s. 5)

Section 78.—By adding thereto the following sub-section

"(3) Sections maintaining an ungraded school with one acher shall not participate in the said teacher shall not participate in the distribution of the by municipal school fund in regard to municipal school fund in regard to days' attendance made by the enrolled pupils for a greater the enrolled pupils for a greater number of days than is enrolled her is enrolled by the state of the state o thousand, except in cases in which an assistant teacher is en-ployed by the trustees." (1904

Section 80. By repealing it and substituting therefor the for wing section:-lowing section:--

"80.—(1) Notwithstanding anything contained in the t^{W^0} ecceding sections, all the real and the contained in the section as t^{W^0} as t^{W^0} preceding sections, all the real and personal property assessed according to the municipal association of the municipal association according to the municipal assessment roll situated within the boundaries of school sections near it is a schedule boundaries of school sections named in the second Schedule school rates of to this Act, excepting dyke lands, shall be liable for sectional school rates for the support of act. school rates for the support of schools in such sections without regard to the place where the and regard to the place where the owners of such property reside, and such property shall not be the transformed such property such property shall not be the transformed such property property such property property such property pr and such property shall not be liable to sectional school of for the support of any school of the sc for the support of any school or schools other than those of such school sections; and propert such school sections; and property owned by persons residue within any of the said school section within the within any of the said school sections and situate within the county, including cities and including within the county, including cities and incorporated towns within the geographical limits of the county is the rection, is geographical limits of the county outside of such section, it is be ratable for school purposes in the section in which it is situate.

(2) In all the school sections in the County of Halifax scept the City of Halifax and the control of Dertmouth) al (except the City of Halifax and the town of Dartmouth) al

the real and personal property assessed according to the municipal rate roll situated within the boundaries of such school sections, excepting dyke lands, shall be liable for sectional school rates for the support of schools in such sections without regard to the place where the owners of such property reside, and such property shall not be liable to sectional school rates for the support of any school or schools other than those of such school sections; and property owned by persons residing within the limits of the school section and situated within the County of Halifax (including the City of Halifax and any incorporated town within the geographical limits of the County of Halifax) outside of such section, shall be ratable for school purposes in the section in which it is situate.

(3) Between the City of Halifax and any incorporated town located within the geographical limits of Halifax County the provisions of section 79 shall apply.

(4) The Council of Public Instruction may, upon the recommendation of the Superintendent, add to said second Schedule, the name of any school section which applies by petition of a majority of its ratepayers to be added thereto." (1903, c. 4,; 1903-4, c. 9, s. 2.)

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 $\frac{S_{ection}}{Winv}$ 85.—By repealing it and substituting therefor the following section :---

"85.-Every regularly ordained minister occupied in ministerial work, and every unmarried woman and widow, shall be exempt from sectional school rates on all property to the be exempt from sectional school rates on all property to the value of five hundred dollars, but shall be liable in respect to $\frac{1}{2}$ to any excess over that sum.

Provided, however, that the exemption allowed by this section shall not apply in cases where the rate is upon the real estate and there is a male relative capable of managing said property, of the age of twenty-one years, residing with the widow, unmarried woman or wife, upon the property so assess-(1905, c. 19, s. 3.)

 S_{ection} 91.—By repealing it and substituting therefor the following section :---

"91_. The secretary of trustees shall post up copies of the collector's roll in at least three public places in the section as soon as possible after he receives the same from the trustees, and shall file a copy thereof with the municipal clerk and shall, on request, file a copy thereof with the inspector." (1909.)c. 18, s. 3.)

Section 93.—By repealing it and substituting therefor the following section :---

The secretary of trustees shall demand the several from the persons are shall demand the several "93. amounts from the persons so rated in the collector's roll, and in default of persons count in default of payment such amounts shall be collected under the provisions of "The Amounts shall be collected under the provisions of "The Assessment Act."

And amounts so rated in respect to real property shall collinger stitute a lien upon such property, which may be enforced under the provisions of "The Arrow of the state of t the provisions of "The Assessment Act." (1905, c. 19, s.

Section 99.—By repealing it and substituting therefor the f^{olv} wing section lowing section :---

"99.-(1). In any school section in which, up to the first day of July, the ratepayers neglect or refuse to make adequate provision for the mainteners provision for the maintenance of a school (including the provision cessary equipment and as a school (including signal) cessary equipment and repairs to a school (including the provision of a temporary school room) during the provision of a temporary school room. of a temporary school room) during the following school year, the trustees of the school and the trustees of the school section shall name the sum of money which they deem sufficient the which they deem sufficient therefor, or which may be necessary to supplement an inadequate to supplement an inadequate sum already voted by the rate payers, and such sum shall be used by the total payers, and such sum shall be submitted to the district board of school commissioners or to the of school commissioners or to the committee of the said board appointed under section thints. appointed under section thirteen of the act hereby amended, and be subject to their approval and be subject to their approval. If the said board or committee thereof approves the said mittee thereof approves the said sum and orders it to be the lected, the said trustees shall many and orders it to be the lected, the said trustees shall promptly levy and collect ted sum so approved in the same many levy and collect ted sum so approved in the same manner as if it had been voted for school purposes at a regular sch for school purposes at a regular school meeting called for the purpose. purpose.

(2) If the trustees of any section neglect or refuse to apply the board of commissioners to the board of commissioners or its committee under to authority of the foregoing clause authority of the foregoing clause, or if they neglect or refuse by provide a school in case negotiation of they neglect or refuse by provide a school in case necessary funds have been voted of the ratepayers or approved have been voted of the ratepayers or approved by the district commissioners of its committee, or if up to the first l its committee, or if up to the first day of July no annual meeting of the section has been held or if any of July no annual meeting of the section has been held, or if no trustees have been elected, it shall be the duty of said been in trustees have been as soon it shall be the duty of said board or its said committee, as soon after the first day of August after the first day of August as convenient, when notified to the inspector of the conditions the inspector of the conditions in any such school section, appoint one or more persons interact of school section a school section are school appoint one of more persons interact of school section as school are school appoint and school section as school appoint as school appoint as school appoint as school appoint and school section appoint and school section appoint as school appoint appoint as school appoint one or more persons interested in maintaining a school in said section as a new board of in said section as a new board of trustees for the remainder of the then current school year of trustees for the remainder of the then current school year, and the trustee or trustees the appointed shall have all the new sector the trustee of the sector by the appointed shall have all the powers of trustees elected by ratepayers; and the duties and ratepayers; and the duties and powers of the trustees, if any, elected by the ratepayers shall the trustees of the trustees during elected by the ratepayers, shall thereby be suspended during said period.

 $\binom{(3)}{1}$ The said trustee or trustees so appointed shall forthwith name the sum of money which is deemed sufficient for the support of the school for the remainder of the year (if sufficient money has not been already voted) and submit their estimate to the board or its committee for its approval, and if approved and ordered to be collected by the said board or its committee, the said sum so approved shall be collected by the said new trustee or trustees in the same manner as if it had been voted for school purposes, at a regular school meeting.

Provided however, that if the district board or its committee is unable to secure a suitable trustee or trustees, they shall notify the inspector of that fact, in which case the inspector shall, the inspector of that fact, in the said period as proshall have all the powers of trustees for the said period as provided in this section, and shall forthwith estimate and name the sum of money which he deems sufficient for the maintenance of the school for the remainder of the year, and shall sub-mit L. the school for the remainder of the year, and shall submit his estimate to the said board or its committee for its approval as above provided for, which approval, if given, shall be combe communicated to the inspector by the said board or its committee in writing.

(4) The inspector shall certify the said sum to the municipai clerk who shall levy the said sum so fixed on the section in t the same manner as if voted for school purposes at a regular school purpose and shall prepare a colschool meeting called for the purpose, and shall prepare a col-lector, meeting called for the purpose. The regular munilector's roll for the collection of the same. The regular muni-cinal strong roll for the collection of the same and taxes in the same cipal collectors shall collect such rates and taxes in the same manning and for the same remunmanner and with the same remedies and for the same remun-eration and with the same remedies and taxes, and shall return eration as in the case of other rates and taxes, and shall return the same to the municipal treasurer.

(5) The amount so collected shall be paid on the order of the inspector to meet the necessary expenses for the support of the support for the super for the support for the super for of the school in the said section.

 $\binom{(6)}{n_{0+1}}$ Nothing in this section shall be construed to relieve trustees from the penalty imposed by section 39 of the Act hereby amended." (1909, c. 19.)"

By adding immediately after section 109 the following section:-"109A.—(1). Subject to the authority of the Trustees the teacher shall have a general oversight over the school premises d_{UVin} and d_{UVin} and d during school hours, and may exclude therefrom all persons who disturb or attempt to disturb the school work."

"(2) Every person who, in or upon any school premises and $\overset{(2)}{in}$ Every person who, in or upon any source is the presence of a pupil or pupils attending such school,

uses profane, threatening, abusive or improper language to wards the teacher, or speaks or acts in such a way as to impair the maintaining of discipline by the teacher in such school, shall be liable to a penalty of not less than five dollars nor more than twenty dollars, and in default of payment, to imprisonment for a period not exceeding thirty days." (1905, c. 19.)

Section 120, sub-section (1), clauses (b), (c) and (d).—By repealing them and substituting therefor the following sub-sections.

(b) For the second teacher, three hundred dollars, provided there is an average annual attendance of at least thirty-five regularly qualified high school students pursuing a full course;

(c) For the third teacher, three hundred dollars, provided there is an average annual attendance of at least seventy regularly qualified high school students pursuing a full course.

(d) For the fourth teacher, two hundred dollars, provided there is an average annual attendance of at least one hundred regularly qualified high school students pursuing a full course." (1906, c. 8, s. 6.)

PART II.

TEACHERS' ANNUITIES.

By adding after section 124 the following sections:-

"125. Teachers who have taught in the public schools of Nova Scotia for thirty-five years or who have attained the age of sixty years, after thirty years of service, shall be entitled to retire with an annuity equal to the provincial aid granted to teachers of their respective classes of license, provided, however, that no teacher shall receive more than \$150.00 per an num under the provisions of this section.

"126. Teachers who, after twenty years' service, become totally disabled or incapacitated from any cause, may, or satisfactory proof of such total disability or incapacity, retire, so long as the total disability or incapacity exists, and shall be entitled to receive the annuity mentioned in the next preceding section.

"127. School boards, municipal councils and trustees are hereby empowered to supplement such annuities under pension or superannuation systems provided by the Council, or regulations approved by the Council, and may also similarly provide for other teachers or educational officers employed by them who may not be beneficiaries under the next two preceding sections.

"128. Moneys payable under the provisions of this part, shall not be transferable and shall not be liable to be taken by legal process to satisfy any debt or judgment.

"129. The Council may from time to time make regulations for carrying into effect the provisions of this part. Such regulations shall be published in the Journal of Education.

"130. School boards, municipal councils and trustees are hereby empowered to enter into any agreement with any annuity company to undertake the payment of such annuities under such agreements as may be approved by the Council." (1906, c. 7; 1907, c. 38, s. 7.)

PART III.

CONSOLIDATION OF SCHOOLS.

131. The Council of Public Instruction is authorized to expend a sum not exceeding thirty-six thousand dollars for the purpose of assisting in consolidating school sections and the schools therein, and in arranging for the conveyance of pupils to and from such consolidated schools.

132. Such sum shall be expended in accordance with regulations to be made by the Council, and shall be paid out of the Provincial Treasury upon the order of the secretary of the Council.

133. A copy of all regulations made under the provisions of this part shall be laid before the House of Assembly and Legislative Council within the first ten days of the next session of the Legislature after the regulations are made.

PART IV.

SCHEDULES.

The second and third Schedules of said Chapter 52 are repealed and the second and third schedules in this part substituted therefor, and the fifth Schedule in this part added to said Act.

SECOND SCHEDULE.

INSPECTORIAL DIVISION, NO. 1.

All sections in the Municipal District of Halifax.

INSPECTORIAL DIVISION, NO. 2.

LUNENBURG AND NEW DUBLIN.

No. 3½ No. 4 No. 7 No. 16 No. 22 No. 24 No. 25 No. 26 No. 27 No. 30 No. 35	 First Peninsula. Centre Range Garden Lots. Heckman's Island. Lower La Have. North West. Whynacht. Mader's Cove. Mahone Bay. Oakland. Block House. Parkdale. Stanbourne. 	No. No.	40. Meisner's. 44. Oak Hill. 57. Lr. Second Peninsula. 60. Clearland. 80. Hebb's Mills. 86. Wileville. 97. Pine Grove. 100. East Dublin. 107. Upper Woodstock. 109. Rosebud. 111. Lr. Woodstock.
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SOUTH QUEENS.

No. 9.....Milton.

INSPECTORIAL DIVISION, NO. 3.

No. No.	YARMOUTH. 2Melbourne.	No. No. No.	23Hebron. 24Dayton. 34Carleton.
No. No. No.	3Arcadia. 8Overton. 9Cape Forchu.	ARGY	
No. No. No.	10South Cheggogin 12North Cheggogin. 13Sanford. 14Port Maitland.	No.	35Plymouth.
No. No.	15Richmond. 16Norwood		SHELBURNE.
No. No. No.	17Lake Annis. 20Brenton. 21Ohio.	No. No. No.	17East Jordan. 18Jordan Falls. 19Upper West Jordan.

INSPECTORIAL DIVISION, NO. 4.

ANNAPOLIS, WEST.

DIGBY.

45.....Allen River. No. No. No. No. No. 28.....Digby.

INSPECTORIAL DIVISION, NO. 5.

KINGS

No.	24	No.	79Grand Pre.
No.		No	82Middle Pereaux.
		LNU.	A 4

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JOURNAL OF EDUCATION.

No. 41	No.83 and 39Halfway River.No.85Upper Gaspereaux.No.86West Black Rock.No.88Pleasant View.No.91White Rock.No.92Rockland.No.96South Tremont.No.99Highbury.No.102KingsportNo.109West Brooklyn.No.110South Waterville.
No. 2Wentworth. No. 11 Mt. Denson. No. 14 Belmont. No. 15 Poplar Grove. No. 19 Summerville. No. 23 Cheverie. No. 25 Pembroke No. 35	HANTS, EAST.No.6No.14East Indian Road.No.27Urbania.No.31Upper Selma.No.33Noel Shore.No.37Moose Brook.No.42No.50Gore.

INSPECTORIAL DIVISION, NO. 6.

No	ANTIGONISH.		GUYSBORO.
No. No.	$33, \dots, E$. Har. au Bouche. $49, \dots, West$ River. $56, \dots, Brierly Brook.$	No. No.	19Hazel Hill. 38Pirate Harbour.

INSPECTORIAL DIVISION, NO. 7.

RICHMOND.

No		RICHMONI) ,
No.	$\begin{array}{c} 8\\ 18\\ 19\\ \end{array}$ D'Escousse.		21Walkerville.
No.	$\begin{array}{c} 9\\ \end{array}$ Grandique.		32Seaview.

INSPECTORIAL DIVISION, NO. 8.

No.

N_{0.}

NNNNNNN

NORTH INVERNESS.

58.....Whycocomagh.

VICTORIA.

1....Baddeck.

29.....South Gut. No.

GUYSBORO.

INSPECTORIAL DIVISION, NO. 9.

lo.	PICTOU, SOUTH.	No.	36 North Fraser's Mt.
0	4	No.	37Little Harbour.
0	5 · · · · · · White Hall.	No.	38 Pine Tree.
0	9 Marshdale.	No.	39Sutherland's River.
0	9 Marshdale. 10 Riverton.	No.	40. West Merigonius.
0	10 Riverton. 14 Fox Brook.	No.	41 Morigomisii.
10	14 Fox Brook. 15 Springville.	No.	49 Diadmonic valley.
	16 Bridgeville.	No.	44 Lr Barney's River.
	15Springville. 16Bridgeville. Glencoe.	No.	57 Meiklefield.

JOURNAL OF EDUCATION.

No. No. No. No. No. No.	17Sunny Brae. 19Blanchard. 26Kirk Mount. 30Brookville. 33Trenton. 34Abercrombie.	No. No. No. No. No. No.	59S. McLellan's Mt.60N. Little Harbor.63Upper Hopewell.64Wentworth Grant.71Thorburn.74Centredale.75Eureka.
No. No. No. No. No. No. No.	PICTOU, NORTH. 2Cariboo River. 7Poplar Hill. 9Marshville. 15Bigney. 22South Dalhousie. 23Millsville. 27Scotsburn.	No. No. No. No. No. No. No. No.	30Roger's Hill.37West River Station.39Landsdowne.40Millbrook.42Pleasant Valley.48Durham.51Lr.Scotch Hill.53Fisher's Grant.56Cariboo Island.

INSPECTORIAL DIVISION, NO. 10.

CUMBERLAND.

No. No. No. No. No. No.	CUMBERLAND. 24. Upper Pugwash. 27. Roslin. 29. Victoria. 39. Warren. 45. Maccan. 62. East Mapleton. 66. Wyndham Hill. 81 Biller	No. No. No. No.	117Springhill Junction. 119Valley Road. 123South Pugwash. PARRSBORO. 3New Prospect. 4Green Hill. 5Black Rocks.
	62 East Mapleton. 66 Wyndham Hill. 81 River Philip. 90 Farmington. 93 Lake Road. 107 Clifton. 115 Black River.	No.	4Green Hill.

INSPECTORIAL DIVISION, NO. 11.

CAPE BRETON.

No.	8Lakevale.		
No.	65Catalone.	No.	71 Little Lorraine.
No.	67Clark's Road.	No.	72. Dia Lorraine
110.	68Mainadieu.	No.	74

INSPECTORIAL DIVISION, NO. 12.

COLCHESTER, SOUTH.

STIRLING.

3.....Upper Onslow. 12.....Nutby. No. NNNNNN NNNNN No. No. 14..... Central North River. 21.....Riversdale. 24.....Cambden. No. No. 35.....Brookfield. 38.....Alma. No. No. 45.....Coldstreams. No. 46.....St. Andrews. No. 56..... Cross Roads. No. 59.....Smithfield No.

6.....French River. 8.....Murphy's. No. No. No. 21.....Brule.

No. 29..... Denmark.

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COLCHESTER, WEST.

Ňо.	7	Pleasant Hills.
Vo.		
Vo.	15	Acadia Minor
lo.	18	. Folly Village.
Io.	- 90	MogetOWU
Io.	23	Folly Lake. Londonderry Station
lo.	$24.\ldots$	Londonderry D

THIRD SCHEDULE.

TEACHER'S OATH.-(SECTION 105.)

"1	TEACHER'S OATH(SECTION 105.)
with law, for t the of being* days during SE regulations of t	district of authorized teacher of class in a conducted
kept by me in e belief the total of period Was*	that the prescribed register has been faithfully and correctly ery particular as prescribed, and that to the best of my knowledge and ays' attendance in this school, made by the enrolled pupils in the said the statutes and regulations and that there is no collusive understand- portion of the agreement is to be made of no effect.
8.	

of to at	in the country
of	thisday
nge, ·····	A. D., 19, before
ne, in and for the County of	· · · · · · · · · · · · · · · · · · ·

The numbers to be expressed by words, not figures.

To be filled in with a dash in semi-annual returns.

If teacher claims no additional days under regulations the blank following to be filled in with a dash, ^{or specify} the employment, with date.

FIFTH SCHEDULE.

(SECTION 59.)

PROVINCE OF NOVA SCOTIA.

Know all

by the Grace of God, of the United Kingdom of Great Britain and Ireland, King, etc., uenda, to be paid to our said Lord the King, his heirs and successors, for the true pay-
(interest and finite of secretary) as principal, and (names
I a great survey and survey and and army bound unto our Sovereign Lord Edward VII.
C We alde of Cal of the United Kingdom of Ca of Dritain and I the
the sum of God, of the Onico Ringdom of Great Britain and Ireland, King, etc.,
in the G ^(a) as sureties, are held and firmly bound unto our Sovereign Lord Edward VII, Canada sum of God, of the United Kingdom of Great Britain and Ireland, King, etc., uent, to be paid to our said Lord the King, his heirs and successors, for the true pay- there where of we bind ourselves, and each of us, by himself, for the whole and every
the be best in indiana of lawin money of
where paid to our said Lord the King, his heirs and successors, for the true pay-
the these set of the bind ourselves and each of my himself for the bind ourselves
and the drace of God, of the United Kingdom of Great Britain and Ireland, King, etc., band sum of God, of the United Kingdom of Great Britain and Ireland, King, etc., dollars of lawful money of bart whereof we bind oursaid Lord the King, his heirs and successors, for the true pay- these presents, sealed with our seals and administrators of us and each of us firmly by these bresents, sealed with our seals and dated this
coeffe and i the automatic and a difficult of the and each of us fitting ag
hat there of we bind our said Lord the King, his heirs and successors, for the true pay- there of we bind ourselves, and each of us, by himself, for the whole and every presents, sealed with our seals and dated this
Ppoint Whereas the said
to here as the said
to be soon to the board of the
the said (name of secretary) do and shall, from time to time, and all times here- the district of the said (name of secretary) do and shall, from time to time, and all times here- the during his court of the secretary) do and shall, from time to time, and all times here-
At if a station is such
the the second the second to be a such,
the dust said (name of goardamy) do and shall from time to time and all times here-
a dating bis secretary) do and shall, from time to time, and an hore
Wis Suties Suis continuance in the said office well and faithfully perform all such acts
the as do an international of any low of any low of
Now the condition of this obligation is such, and during his continuance in the said office, well and faithfully perform all such acts this Province, and shall in all respects conform to and observe all such rules,, orders
and shall in all regression approximate and observes all such rules, orders
adalt in an respects comorni to and observe an succes, orders

M. * 0. 1 / 10 * 10

and regulations as now are or may be from time to time established for or in respect of the said office; and if on ceasing to hold the said office, he shall forthwith on demand, hand over to the trustees of the said school section or to his successor in office, on the order of the trustees, all books, papers, moneys, accounts and other property in his possession by virtue of his said office of secretary, then said obligation to be void otherwise to be and continue in full force and virtue.

(Name of Secretary)

(Names of sureties)

Signed, sealed and delivered in the presence of \ldots

(Name of Witness.)

SCHEDULE "B,"

Enactments repealed by Section two of this amending Act.

Acts of 1901	Chapter 37.
Acts of 1901,	Chapter 38.
Acts of 1902.	Chapter 39.
Acts of 1903,	Chapter 4.
Acts of 1903.	Chapter 5.
Acts of 1903,	Chapter 6.
Acts of 1903.	Chapter 22.
Acts of 1903-4,	Chapter 8.
Acts of 1903-4.	Chapter 9.
Acts of 1905,	Chapter 19.
Acts of 1906,	Chapter 5.
Acts of 1906,	Chapter 6.
Acts of 1906,	Chapter 7, except section 8.
Acts of 1906,	Chapter 8.
Acts of 1907,	Chapter 38.
Acts of 1908,	Chapter 13.
Acts of 1909,	Chapter 18.
Acts of 1909,	Chapter 19.
	omptor to.

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(Seal.)

(Seals.)

JOURNAL OF EDUCATION.

THE E MORE IMPORTANT REGULATIONS OF THE C. P. I., AS FINALLY AMENDED SINCE THE CONSOLIDATION IN THE MANUAL OF 1901.

ACADIAN SCHOOL REGULATIONS, 1908.

Ordered By the C. P. I.

but the Province be appointed, who shall be known as the Bilingual Visitor of Acadian of bools, and the province be appointed will be supplementary to those of the regular Inspectors and but the Province be appointed, who shall be known as the Bilingual Visitor of Acadian Schools, and whose duties will be supplementary to those of the regular Inspectors and superintendent in making the schools in French settlements more efficient in every superintendent in making the schools in French language being intended to able him to supplement as circumstances require, the work of the Inspectors. that to supplement as circumstances require, the work of the Inspectors.

With the Carrying out these general directions he shall, as far as possible, co-operate but the Inspectors, and like them also report monthly on his work to the Superintend-in and at at the them also report on the state and progress of education the the dispectors, and like them also report monthly on his work to the supermetric to the Acadimetric terms of the A_{cadi} be the end of the year present a report on the state and progress of education the A_{cadi} had at the end of the year present a report on the state and progress or current and the Acadian schools in the different parts of the Province, with reasoned recomthe Acadian schools in the different parts of the Province, hendations for such improvements as he may be able to specify.

time in the Provincial Normal Collegent Truro, to French speaking teachers to prepare been to teach to teach the teacher to truth the teacher to truth the teacher to teacher to the teacher to teache the in the Provincial Normal College at Truro, to French speaking teachers to prepare then the Provincial Normal College at Truro, to French speaking teachers to prepare reades of teach English colloquially to French pupils coming to school without a know-rades of the fullish; in order that by the time the pupils have completed the first four thereafter in English. Travelling expenses to and from this course shall be paid at the rate of five conte per mile. the rate of five cents per mile.

basis, In schools where a large number of pupils attend who cannot understand for such the trustees are authorized to allow the use of the prescribed French Readers basis, burning the trustees are authorized to allow the use of giving colloquial instruction in the schools where a large number of paper. It is schools where a large number of paper is the prescribed French Readers for such the trustees are authorized to allow the use of the prescribed French Readers is such as specified in the foregoing regulation, and is giving it so effectively that the end of the fourth year, the pupils can henceforward be effectively instructed be imperative on any pupil. be imperative on any pupil.

Berlitz, As many educational authorities believe a colloquial system (such as the suage, school the most expeditious and economical method of acquiring a new lanstates) is many educational automatics better and the state of acquiring a new later and school trustees shall continue to be free to employ English speaking teachers any such a specified in the foregoing regulations. hoder any such conditions as specified in the foregoing regulations.

THE ACADIAN COMMISSION.

The origin of these regulations, was the desire to carry out the recommendations Acadian of these regulations, was the desire to carry out the recommendations of the Acadian Commission which sat in the month of April, 1902.

Governor:-On the 18th April, 1902, it was recommended to His Honour the Lieutenant-

"Visions of Chapter 12, Revised Statutes, 1900, for the purpose of investigating the

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"best methods of teaching English in the schools situate in the French districts of "the province and generally to make any available in the French districts of the schools situate in the french districts of "the province and generally to make any suggestions to the Educational Department "which would have the effect of bringing about the state of the such "which would have the effect of bringing about greater educational progress in such "districts. "districts.

"Rev. P. Dagnaud, of Church Point. "W. E. Maclellan, of Halifax.

"Prof. A. G. Macdonald, of Antigonish. "Rev. W. M. LeBlanc, of Arichat.

"Alexander McKay, Supervisor of Schools, Halifax. "Hon. A. H. Comeau, of Meteghan River.

"Rev. A. E. Mombourquette, of East Margaree.

"M. J. Doucet, M. P. P., Grand Etang."

The Commission was promptly appointed, and after examination of witnesses nd due deliberation, the following report was made, and afterwards presented to he_Council of Public Instruction:--the Council of Public Instruction :--

To The Honourable

ALFRED GILPIN JONES, Lieutenant-Governor of Nova Scotia.

May it Please Your Honour:

We, the undersigned members of the Commission appointed by your Honour echools "the purpose of investigating the best methods of teaching English in the schools "situated in the French-speaking districts of the D the purpose of investigating the best methods of teaching English in the schere "situated in the French-speaking districts of the Province, and generally to me "any suggestions to the Educational Department which would have the effect of "bringing about greater educational progress in such districts of the provisions" any suggestions to the Educational Department which would have the effect " "bringing about greater educational progress in such districts, under the provisions "of Chap. 12, of the Revised Statutes of 1900," beg leave to report as follows:

Your Commission have devoted twelve long sessions, extending over more than to enquiries concerning and the consideration of this tending over more subject. week to enquiries concerning and the consideration of this highly important subject. They have had before them and carefully examined a number of witnesses from the various parts of the Province coming directly within the area of vitre commission. various parts of the Province coming directly within the scope of their Commission, They have summoned and heard the testimony of the scope of their Commission, They have summoned and heard the testimony of expert language-teachers, berr English and French. They have listened to and weighed the statements of Govern ment Inspectors having the supervision of French-spectrum at the statements of teachers ment Inspectors having the supervision of French-speaking schools, and of teachers in such schools. They have thoroughly discussed and most faithfully considered the problem set before them in all its bearings.

Their investigations and deliberations have been marked throughout by the great narmony and by the conspicuous absence of any more service of any est harmony and by the conspicuous absence of any mere sectional, partisan or racial spirit. They have been able to reach the conclusions which there is the submit spirit. They have been able to reach the conclusions which they are about to submit to your Honour not only unanimously but without frictions spirit. to your Honour not only unanimously but without friction or unpleasantness of any, sort.

The first enquiries of your Commissioners were naturally directed towards deter mining the relative standing of French and English-speaking schools, with a view to discovering whether the former are being or have been autient to save considerable disadvantage under our view of the save been autient to save considerable discovering whether the former are being or have been subjected to any consider the disadvantage under our educational system as account to to the litter. All the disadvantage under our educational system as compared with the latter. is population of the system as compared with the latter is populational difference before your Commissioners goes conclusively to the system with the latter is population. evidence before your Commissioners goes conclusively to show that, while there is no appreciable difference in intellectual capacity between French and English-speeding of the former is consid appreciance unterence in intellectual capacity between French and English-speaking of the former is considerably less than that of the latter. Weighty testimony rally forthcoming to show that while this is the case, French-speaking pupils are generally more regular school attendants and often more eager learners than English-speaking pupils in the same Inspectorial Districts.

Your Commissioners have unanimously reached the conclusion, that the French king sections of the Province have been and speaking sections of the Province have been and continue to be at a very server disadvantage in the matter of education. They believe a measure of that disadvant tage to be incident to and inseparable from their position as small French-speaking, tage to be incident to and inseparable from their position as small French-speaking, communities in the midst of larger English-speaking ones. They believe to the misconceptions of however, that a considerable part of that disadvantage is due to misconceptions the the part of more or less incompetent teachers and to how of understanding on the the part of more or less incompetent teachers and to lack of understanding on the

Part of officials and others of the aim and spirit of the school law of the Province and to some extent to certain remediable defects in the School Law and Regulations themselves.

Your Commissioners find that the fundamental error in dealing with the French Schools, which must be held responsible for many of their short-comings, has been the assumption that they must be taught exclusively in English. startling uniformity and persistency attempts have been made and are being made to educate children from French-speaking homes and with none but French speaking playmeter in the Unglish language alone sometimes from the lips of teach-Playmates by means of the English language alone, sometimes from the lips of teachers who can speak nothing but English. They find from the testimony of experts that even were such teachers masters of the most approved modern methods of teaching a foreign language but meagre results could be anticipated from their best efforts under mathematical that with the inexperienced, ill-taught efforts under such conditions. They find that with the inexperienced, ill-taught and often otherwise incompetent teachers ordinarily available for employment in such schools the efforts, however conscientious, made to teach the children to speak English are, as might be anticipated, largely a failure. They find also that, while futile at-tempte tempts to teach them English are thus being put forth, the general education of French-speak. Peaking pupils is being more or less seriously or sometimes even totally neglected.

With a view to remedying these defects and redressing serious grievances which they believe should be removed as speedily as possible, your Commissioners have unanim unanimously reached the following conclusions which they submit to your Honour, in the h in the hope that they may be approved by you and by your Council of Public In-struction, and that due effect may be given to them in the future regulations and directions and that due effect may be given to the province. Your Commissioners are direction, and that due effect may be given to them in the the section of the Educational Department of the province. Your Commissioners are manimously of the opinion,-

First, "that English can be best and most effectively taught in the French-speaking school-sections of Nova Scotia by the daily use in speaking and writing of that hanguage, taught according to the most approved methods, from the pupils' first entrance into school, to be followed by the use of the prescribed English readers as soon as they are school, to be followed by the use of the prescribed that the 3rd or 4th grades. as they can be intelligently used by such pupils, not later than the 3rd or 4th grades.

Second, "that the general education of French-speaking pupils should be carried on Second, "that the general education of French-speaking pupul attains can be suc-concurrently with their acquisition of the use of English, and that this can be suc-**Cessfully** accomplished only by the use of their vernacular; that, therefore, as long as accessary they should, while learning English, be taught the other subjects of the optional mitt optional with every pupil.

Third, "that, as far as practicable, in the French-speaking schools of this Pro-Vince, only bi-lingual teachers should be employed'.

Your Commissioners have been forced to this last conclusion because they are con-Vinced that only French-speaking pupils from French-speaking homes in Frenchproper that only French-speaking teachers are ordinarily competent to manage the speaking instruct French-speaking pupils from French-speaking homes in French-they have acquired a working knowledge of the English language. They believe that the difficulties working the use of English under the conditions prevailing in our the difficulties of teaching the use of English under the conditions prevailing in our Reaching the use of English under the conditions prevailing in our reaching the use of English under the conditions prevailing in our reaching the use of English under the conditions prevailing in our reaching the use of English under the conditions prevailing in our reaching the use of English under the conditions prevailing in our reaching the use of English under the conditions prevailing in our reaching the use of English under the conditions prevailing in our reaching the use of English under the conditions prevailing in our reaching the use of English under the conditions prevailing in our reaching the use of English under the conditions prevailing in our reaching the use of English under the conditions prevailing in our reaching the use of English under the conditions prevailing in our reaching the use of English under the conditions prevailing in our reaching the use of English under the conditions prevailing in our reaching the second Brench-speaking sections are so greatly increased that it would be not far from im-besible for possible for even the most expert of language teachers to carry on the primary education of the pupils by means of it alone.

Mendations which they make to your Honour as the logical outcome of their above Your Commissioners have, further unanimously agreed upon the following recom-

First, "that a special series of French reading-books suitable for grades one to should be a special series of French reaching school sections. four should be prescribed for use in French-speaking school sections.

Second, "inasmuch as the evidence given before your Commissioners shows con-Second, "inasmuch as the evidence given before your Commissioners on the making setisfactory that the majority of schools in French-speaking sections are not making English, usively that the majority of schools in French-speaking sections are not maxing stisfactory progress, largely in consequence of faulty methods in teaching English, that the Council of Public Instruction should provide a short course, of some weeks' duration, during the summer holidays in the Normal School, for the purpose of im-

parting to bi-lingual teachers the most approved methods of teaching English in such sections, and that teachers attending such course be treated in the matter of travelling expenses in the same manner as is now provided for those attending the regular sessions of the Normal School.

Third, "that, for the future, Inspectors of Schools be required to make a special annual report to the Department of Education on the general progress of such schools, but particularly on the progress made in the study and use of English and on the methods adopted in teaching it."

All of which is dutifully and most respectfully submitted by your Commissioners, who have the honour to be,

Your Honour's obedient servants.

W. E. MACLEILAN, Chairman. A. H. COMEAU. A. G. MACDONALD, A. M. P. M. DAGNAUD. W. M. LEBLANC. M. J. DOUCET. A. E. MOMBOURQUETTE. A. MCKAY.

Halifax, April 28th, 1902.

The finding of the commission, it appears, was unanimous; and in view of that fact the Council of Public Instruction authorized the carrying out of its recommendations in the most careful manner.

MANUAL TRAINING, 1903.

Ordered, that under section 71 of Chapter 52, of the Revised Statutes of 1900, no public money shall be paid to school boards for the instruction of pupils in Manual Training Schools, who have not advanced as far as Grade VI. of the Public School Course, except when specially authorized by the Education Department, for pupils over thir teen years of age; and that the grants on account of the Domestic Science departments of such schools shall not exceed one-half of the maximum grant allowed under the law of the school board of Manual Training in the Mechanic and Domestic Sciences.

REGULATIONS FOR THE STRENGTHENING OF SCHOOL SECTIONS, &

Reg. 10 (a). No school section, although regularly placed on the list of "poor sections" shall be deemed qualified to participate in the extra allowance provided for "poor sections", unless the sectional assessment voted, levied and collected, shall be at least equal to the average rate of sectional assessment in the county.

Reg. 10 (b) Two adjacent school sections which cannot afford to employ a qualified teacher for the whole year, may arrange with the Inspector of schools, to be associated together as a "double-section," the teacher to be employed in the school house of one section for one half of the year, and in the other school house for the other half of the year.

Reg. 10 (c). When an enlarged school section has one or more settlements corrested restriction beyond two miles from the school house, the Inspector may arrange with its of the Provincial Aid and Municipal Fund, which can be assumed to be saved by the enlargement of the section and the reduction of the number of schools, to subsidize the morning, allowing them under ordinary conditions to return to their homes without conveyance.

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Reg. 15 (e). It shall be the duty of each Inspector to classify the school sections Within his division into first, second and third class sections, which in order to enjoy the full the full regular grants of public money, should employ respectively teachers having at least the least the corresponding classes of license. Such classification may be revised annually, any the corresponding classes of license. any change being intimated to the secretary of the school board affected before the date of the of the regular annual meeting of the section. Any section shall be free to employ a teacher of higher class than its ranking, but not free to employ a teacher of sufficient the express authorization of the Inspector for sufficient than its ranking except on the express authorization of the Inspector for sufficient reasons, such as the lack of teachers of the class required.

POR CONSOLIDATED SCHOOL SECTIONS WHICH ARE BENEFICIARIES UNDER CHAPTER 22

Ordered:

(1) $P_{royincial}$ (1). That in the case of consolidated school scenario at the conveyance of pupils that in the case of consolidated school scenario at the school house, to shall be a school house, to That in the case of consolidated school sections which received the special aball be from points more than two and one-quarter miles from the school house, to a point from points more than two and one-quarter miles and distance enjoyed by those a point which will afford such pupils the advantages as to distance enjoyed by those not not not the set is factory to the Inspector of Schools.

not more than two miles distant, and must be satisfactory to the Inspector of Schools. (2) Under no circumstances shall it be deemed necessary to convey such pupils distance than to and from a point within one and a half miles of the school, or the same distance to wards the pupile. distance towards the school in the morning, or the same distance towards the pupils' homes is towards the school in the morning arranged. bomes in the evening, as can be most economically arranged.

(3) The Trustees of the Section will endeavor, as far as compatible with the artangent in the artangent of the C. P. I., to meet the reasonable desires of parents and pupils in the artangent of difference to be arangements and equipment for the said conveyance, any point of difference to be referred to the Inspector for decision.

ary (4) The Trustees in making arrangements for conveyance, shan take the original rate of cost to have as satisfactory service as possible, at the most economical rate of cost to the section. It is recommended when it may be found expedient, to rant allocate to the section. Brant allowances to parents or guardians for the conveyance of their children or their heighbors' children in which access the sectional school tax or any portion of it may acid allowances to parents or guardians for the conveyance of the day of the sectional school tax or any portion of it may be remited children, in which cases the sectional school tax or any portion of it may

be remitted to such persons by the Trustees, as a part of such allowance agreed upon. for (5) Generally it may be found most convenient for irustees to that it equip-ment mean ealong certain definite routes at definite times, with a definite equip-ment in evance along certain definite drivers or other persons, in order to ascertain the conveyance along certain definite routes at definite times, with a definite of the times, under the oversight of responsible drivers or other persons, in order to ascertain the cost; hut Trustees should keep themselves free to make cheaper arrangements when possible, with equally satisfactory conveying—all arrangements for which are subject to the the Inspector. which possible, with equally saturation of the Inspector.

17 (6) That the power conferred upon Boards of School communications, be recommended to be an Education Act, with respect to ordinary school sections, due regard, That the power conferred upon Boards of School Commissioners by Sec. to be applied to distant and isolated ratepayers in Consolidated sections, due regard, however, being paid to the object for which Consolidated sections have been estab-

(7) Only resident pupils of the school section from 7 to 14 years of age are to be (7) Only resident pupils of the school section from (to 1+ years of a reasonable fee which will be their conveyance to be at the cost of the school section, unfee which will not allow their conveyance to be at the cost of the school section, unhere provision had been made for conveying such pupils at the annual meeting of the chool section.

(8)

All previous regulations inconsistent with these are hereby repealed.

DECISIONS ON SOME LIMITATIONS OF THE POWERS OF SCHOOL TRUSTEES.

1. School trustees have power to rent temporary school rooms when there is not sufficient accommodation in the public school rooms; but they cannot use for public school rooms; but they cannot use for school nucles. Purposes and the public school rooms; but they cannot use for price pupposes and pu purposes, so that they can be held responsible for the character of the accommodation which must have be held responsible for the character of the accommodation which must be in accordance with law.

2. School trustees cannot vacate a public school room for any other room of or some sufficient to have it repaired, providing it should be deemed capable of repair; or for some sufficient to repair the school section as a whole, such as to secure better some sufficient reason affecting the school section as a whole, such as to secure better stading, but reason affecting the school section as a whole, such as to secure better Rading, but not to suit the desires of individual parties or sects.

3. Any arrangement of school rooms which may (1) prevent the efficient grading

of the departments in charge of such teacher, is not compatible with the spirit of the school law. If either of these irregularities exist, and continue after notification by the Inspector, the schools cannot participate in the public grants.

4. It is legal for pupils in a section with only a few departments, which cannot have, therefore, more than one series of grades, to meet for devotional exercises another room than the one in which they are registered for the work of the grade, the arrangements for exchange to be co-ordinated by the principal so that there may be no confusion or unnecessary loss of time. Separate devotional exercises may thus be held simultaneously to suit the desire of different pupils who during the rest of the day will be in their regularly graded class-rooms.

SCHOOL THROUGH SUMMER VACATION.

Ordered, That on the recommendation of the Inspector, the Superintendent of Education may allow schools closed during the earlier portion of the school year on account of the impossibility of obtaining a regularly qualified teacher, to continue school during the summer vacation, so as to make up any portion of the time of teaching lost, provided a special return be sent in to the Inspector for the time taught during the said vacation period, and that the public grants shall become due on the said special return at the end of the following half-school year.

UNIVERSITY GRADUATES.

Ordered that regulation 23 (b) be amended by the addition of the following sentence: In an emergency and on the special recommendation of the Inspector, a University graduate in Arts or Science, who holds a teacher's license of a class lower than first (class B) may be provisionally employed as a principal of any school for a period not exceeding one year, after which he will cease to be eligible for any such position without an advance in class of license, until he is regularly qualified.

NOTICES OF ENGAGEMENTS AND OPENINGS.

25. The Secretary of the school trustees shall notify the Inspector in writing as soon as any teacher is engaged, stating the name and class of license of the teacher, and the salary promised. If any such engagement is broken without mutual agreement, the Inspector as soon as informed thereof, shall report the teacher to the Council of Public Instruction as presumably liable to suspension of license.

27. Every teacher, assistant or substitute as soon as engaged to teach in any school, shall mail, or otherwise directly send a written notice to the Inspector of the Division intimating the *fach*, the *class* of license held, with its *year* and *number*, the *period* of engagement, the *address* of the Secretary of School Trustees, and the *name* of the school section where last engaged. This shall be followed by a notice of the opening of school mailed not later than the day following.

This intimation shall be kept on file in the Inspector's office, and any delay on the part of the teacher in giving such notice shall render him or her liable to the loss of provincial grants up to the date of proper notification. A teacher intending to compete for (1) superior classification as a Class "A" teacher, or (2) classification as a Rural (Agricultural) Science teacher, or (3) a school library grant, or (4) an inspector's Certificate for promotion, or (5) any other special consideration provided for in the school laws, shall give due information thereof to the Inspector in writing as early as possible, but not later than the last day of September.

"Regulation 34 (a) is amended by inserting after the word "school'' in the second line of the Regulation as it appears in the "Manual of School Law, Nova Scotia, 1901,'' page 65, the clause "it also the principal of all the schools of the Section.''

SEMI-ANNUAL ADVANCE OF CLASS OF LICENSE.

The semi-annual payment of Provincial Aid to teachers shall the paid on the basis of the class of license held at the opening of the school each half year.

RURAL SCIENCE SCHOOLS AND GARDENS.

Regulation 36, pages 66 and 67 of the "Manual of School ^{substituted} in its stead:

³⁶. Rural Science Schools and Gardens:—To qualify under er of 69 of Chapter 52 of the Revised Statutes of 1900, the teachs specified in the clauses following, and must notify the Inspector the opening of the school each year of the classification to be which are the equivalent respectively of "A1," "A2," and "A3" Regulation 34 preceding:

leferred (1) "The graduation diploma from the School of Agriculture 1900, shall hereafter be known as the Rural Science diploma, Vacation School at Truro, conducted under the auspices of the plete the course as prescribed from time to time, and obtain the "Superior," "Good" and "Fair" as provided in the Statute spectively specified. But Second Class teachers who complete course and receive the diploma may on the recommendation of the Inspector draw one-half of the regular grants for the classifications "Fair" and "Good" respectively on the fulfilment of the regular conditions."

(2) Any such licensed teacher intending to compete $\frac{fot}{69}$ classification as "fair," "good," or "superior," under section $\frac{69}{69}$ of the Education Act, must give notice of this intention at the opening of the school to the Inspector, who has at the end of each half-year to rank the school; and the lack of such notice shall be a disqualification, even should all other conditions be complied with.

(3) For the lowest rank "fair" the school should have the equipment specified in Reg 51, a and b, must have a school garden of not less than one-eighth of an acre, one-third of which should be set off in beds 4×10 feet with walks 3 feet wide, the rest to be set out as an arboretum and shrubbery, part set out each year til all is planted; and a library of not less than 15 volumes in addition to the prescribed books of reference. The school must be in all respects conducted as a first class school, with special excellence in Nature Study.

(4) For the rank "good" the school should, in addition, have the equipment specified in Reg. 51, c and d, with a library of not less than 25 volumes, a well conducted school garden of onefourth of an acre, one-third of which must be in beds as above, the rest arboretum and shrubbery as above, and must be conducted in all respects as a first-class school with good demonstrations in Nature Study by the individual pupils and the school generally.

(5) For the rank "superior" the school should have, in addition to the requirements of the previous ranks, the equipment specified in Reg. 53, with a library of not less than forty volumes, a school garden containing three-eighths of an acre, one-third of which should be set out in beds as above, the remainder as arboretum and shrubbery as above, with a special class of pupils doing advanced work in Nature Study of such a character as to be clear ly advancing the industrial methods of the community in at least some departments of agriculture, horticulture, forestry, etc.

(6) The "small" standard school garden should not be less than one-eighth of an acre (54445 square feet), one-half of which might be set out as an arboretum and shrubbery, the remainder being plowed each spring, then worked up by the pupils into beds of four feet by ten, separated by walks three feet broad. This arrangement would give one bed to each of thirty pupils. The younger pupils might be assigned in twos to each bed. The grounds should be kept prettily fenced and kept in good order, even during holidays, when they should be visited by relays of Pupils at least once a week. Such a school garden might be recommended by the Inspector for ten, fifteen, twenty or twentywe dollars per annum from the municipal fund, according to the excellence of the general condition of the school, provided the School Board spend at least as much on the plowing, fertilizing, the forming the annual current expense of maintaining the school in order, in addition to the labor of the pupils and teacher.

(7) The "medium" standard school garden should be about One-quarter of an acre on the average, one-half of which might be set out as an arboretum and shrubbery, and the remainder divided into set as an arboretum and shrubbery separated by three feet Walks an arboretum and snrubbery, and the separated by three feet walks Walks, to be conditioned on the same general principles as the size of the garden desired s_{mail} , to be conditioned on the same second the garden desired or the standard. This would be the size of the garden desired drawing \$15, \$20, or \$25, for the rank "good" where possible, drawing \$15, \$20, or \$25. according to excellence, from the municipal fund.

(8) The "large" standard school garden should be over a quarter of an acre, with at least three times the number of "four by ten of an acre, with at least three times the "small" standard, say b_y ten feet'' plots recommended for the "small' standard, say ton 7, feet'' plots recommended for the size of garden tom 75 to 100 individual beds. This would be the size of garden principal for the rank "superior;" drawing under the same general principles \$20 to \$25 from the municipal fund.

 $^{(9)}$ A small shed for the garden tools, with a projection, $g_{ass,roofed}$, facing the sun, to serve as a miniature hot-house for forcing part of any standard garden, $\int_{0}^{\infty} r_{0} of ed$, facing the sun, to serve as a miniature not near a very plants in spring, is a necessary part of any standard garden, a very plants in spring, is a necessary part of the "small" garden. a very cheap structure sufficing, especially for the "small" garden. The size, number and management of plots specified above are berely given as general directions when teachers or school boards have given as general directions when teachers of school and attained to other scheme which they deem superior. Any other these conditions, but demonstrating arangements approximating these conditions, but demonstrating augements approximating these conditions, but determined allow-able, but special advantages, or improvements, are not only allowable, but will be specially commended after a successful test.

 $t_{eco}(10)$ If the teacher or the secretary of the school t_{in} weed: under oath the attendance of pupils during the holidays in weed: under oath the beds such time might be arranged (10) If the teacher or the secretary of the school board weeding and observing the beds, such time might be arranged though is and observing the beds, such time might be arranged to be substituted equitably, according to through the Inspector to be substituted equitably, according to agreement, for an equivalent number of holidays during the winter weement, for an equivalent number of holidays during the manager, and weather of the school year following or the "days attendanded.

Perhaps exchange visits to the schools of each inspectorate, in the to be be a school of each inspectorate in the school (11) Inspectors may have to consult with each other, and the sure that the same standards of classification are maintained in each inspectorial division. The same conditions hold with response of Manual Training and Superior with respect to the inspection of Manual Training and Superior

Schools generally. Notice of competition for school garden grants must be given to the Inspector at the opening of the school each year, and should be signed by the SECRETARY as well as the teacher.

(12) The course of study for the Rural Science diploma shall be as defined from year to year in the Rural Science School Course of Study.

PROVINCIAL EXAMINATION OF HIGH SCHOOL STUDENTS.

82. "High School Students" shall be held to mean all who have passed the County Academy Entrance Examination and are studying the subjects of any high school grade, or who are certified by a ticensed teacher as having fully completed the Common School course of study, and are engaged in the study of subjects beyond Grade VIII.

83. A terminal examination by the Provincial Board of ^{EX} aminers shall be held at the end of each school year on subjects of the first, second, third and fourth years of the High School Program, to be known also as Grades IX, X, XI and XII respectively of the Public Schools.

84. The examinations shall be held during the first week of July, according to the time tables given in 98, for Grades XII, XI, X and IX, and the "Minimum Professional Qualification" of public school teachers, at each of the following stations viz. 1, Advocate; 2, Amherst; 3, Annapolis; 4, Antigonish; 5, Arichati, 6, Baddeck; 7, Barrington; 8, Bear River; 9, Berwick; 10, Bridge 6, Baddeck; 7, Barrington; 8, Bear River; 9, Berwick; 10, Bridge 15, Digby; 16, East River, St. Marys; 17, Glace Bay; 18, Grift Village; 19, Guysboro; 20, Halifax; 21, Inverness; 22, Kentville 30, New Glasgow; 31, North Sydney; 32, Oxford; 33, Parrsboro 34, Pictou; 35, Port Greville; 36, Port Hawkesbury; 37, 41, Hood; 38, River John; 39, Sheet Harbor, 40, Shelburne; Sydney; 46, Tatamagouche; 47, Truro; 48, Upper Stewiacke; yar Westport; 50, Westville; 51, Windsor; 52, Wolfville; 53,

85. (a) Application for admission to the Provincial form School examination must be made on the prescribed form to the Inspector within whose division the examination station to be attended is situated, not later than the 24th day of May.

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(b) Candidates applying for the Grade IX examination, or for the next grade above the one already successfully passed by them, shall be admitted free. But a candidate who has not passed Grade IX must have his application for X accompanied by a fee of one dollar; if he has passed neither IX nor X the application for XI must be accompanied by two dollars; and if he has passed neither IX, X nor XI the application for XII must be accompanied by three dollars. The candidates who are entitled to free examination are only those who pass the different grade examinations in consecutive order.

(c) For the Teachers' Minimum Professional Qualification Examination a fee of two dollars is required; but it should not be forwarded with the application, for it has been found more convenient to have it paid to the Deputy-Examiner on the Saturday when the candidate presents himself for examination. The Deputy-Examiner shall transmit the same to the Superintendent with his report.

(d) The prescribed form of application, which can be obtained free from the Education Department through the Inspectors, shall contain a certificate which must be signed by a licensed teacher having at least the grade of scholarship applied for by the candidate whose legal name must be fully and plainly written out on the application form.

(e) b: When a candidate presents himself for examination, and his name is not found on the official list as having made resular application in due time, the Deputy-Examiner may admit him to the examination provisionally on his written statement that application was regularly made in due time, which with a fee of one dollar, is to be transmitted with the Deputy's report to the Superintendent. If such candidate's statement is verified the dollar shall be returned. Providing there is sufficient accommodation, the Deputy-Examiner may admit any candidate on the payment of one dollar for any Grade in addition to the regular fees required under Reg. 85 (b).

(1) The prescribed form of application is given in schedule B.

86. Each Inspector shall forward, to the Superintendent of bducation, not later than June 1st, a list of the applications received a each mot later than June 1st, a list of the applications received. The the grade of examination at each station within his division, by the product of examination at each station within the division. the prescribed form supplied from the Education Office. The and prescribed form supplied from the Education Uncerted that forms properly filled in, together with all fees duly credited be properly filled in, the Education Office. be promptly forwarded to the Education Office.

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87. The Deputy-Examiner, when authorized by the Superior tendent of Education, shall have power to employ an assistant or assistants, who shall each receive two dollars per day for the time so employed.

88. The Superintendent of Education shall cause to be prepared and printed suitable examination questions for each examination in accordance with the regulations of the Council, and shal forward to each Deputy-Examiner a sufficient supply of the same together with copies of such rules and instructions as may be necessary for the due conduct of the examination.

89. The maximum value of each paper shall be 100; the questions being made as nearly as possible equal in value. Should the *values* of questions be unequal, they shall be stated near the margin of each question.

90. Each examiner shall mark distinctly by coloured period or ink at the left hand margin of each question on the candidates paper its value, placing the sum of the marks on the back of the folded sheet. From this sum the number of misspelled or scurely written words is to be deducted to show the net value of the paper; provided, however, that from one to three may be added by the Examiner for specially good writing.

91. The "High School Pass" on all grades shall be as defined under Reg. 154—the "High School Program"—from year year.

92. The "Teachers' Pass" shall be as defined under Reg. 154—the "High School Program"—from year to year.

93. (a) Candidates failing to make a High School pass in the grade applied for shall be ranked as making a High School pass in the next grade below, provided an average of 40 per cent with no mark below 25 be made; and as making a pass on the grade second below? provided an average of 30 per cent. be made with no mark below?

- (b) Candidates failing to make a Teachers' Pass in the grade applied for shall be ranked as making a Teachers' pass in the next grade below, provided an average of 50 per cent, be made with no mark below 30; and as making a Teachers' Pass on the grade second below, provided an average of 40 per cent be made with no mark below 25.
- (c) No appeal from the examination of a candidate's an^{gwet} paper at the Provincial High School examination shall be entertained by the superintendent unless it is accompanied by a fee of fifty cents for each paper to cover the minimum

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expense, and not even then unless a responsible person vouches for the good standing of the appellant.

94. Each candidate, provided no irregularity has been reportt, shall receive from the Superintendent of Education a certificate the examination record in each subject. If the candi-tate has the examination record in each subject. If the candithe has made a "High School Pass," the certificate will bear the state obtained the "High School CERTIFICATE," and show the grade obtained HIGH SCHOOL CERTIFICATE, and snow the grace of the state to pass shall receive an equally detailed statement of their subjects. amination record on the various subjects.

95. Candidates passing the various grades in consecutive $t_{R_{amin}}^{\psi_0}$. Candidates passing the various gravitation and provincial High School $t_{R_{amin}}^{\psi_0}$. $k_{raninations}^{rec}$ shall be admitted free to the regular from and procedure have been $k_{raninations}^{rec}$, provided their application and procedure have been is k_{ran}^{rec} and k_{ran}^{rec} and k_{ran}^{rec} are less than a single of fees as given in 85 (b) and (e) testian in all other cases a scale of fees as given in 85 (b) and (e) is here in all other cases a scale of fees as given in all extra labor the been fixed to cover the cost of examination and extra labor kely to be incurred.

 $\frac{96}{1000}$. The subjects, number and values of the papers for the the rent examinations, and the general scope of examination ques-Bions, are indicated generally by the texts named in the prescribed Bions are indicated generally by the texts named description by We are indicated generally by the texts named in the relation by the section of Program. Examination may demand description by in all grades of High School and M.P.Q. the wing as well as by writing in all grades of High School and M.P.Q.

PROVINCIAL EXAMINATION RULES.

 $\frac{97}{100}$ No envelopes shall be used to enclose papers. Two hours ¹⁸ the time allowed for writing each paper, except in the case of the b_{1}^{0} , b_{2}^{0} , b_{3}^{0} , b_{4}^{0} , b_{1}^{0} , b_{1}^{0} , b_{2}^{0} , b_{3}^{0} , b_{4}^{0} , b_{3}^{0} , b_{4}^{0} , b_{3}^{0} , b_{4}^{0} be one is examinations, where the time allowed for each paper shall one is examinations. be one hour. The following rules must be exactly observed:-

¹⁰Candidates shall present themselves at the children punctually half an hour before the time set for the first paper With punctually half an hour before the time set for the deputy stating and for which they are to write, at which time the deputy the grade for which they are to write, at wmen unit and the shall give each candidate a seat. The candidate's name for the shall give each candidate a mumber and must be therefore neither be represented by a number, and must be therefore neither Candidates who present themselves shall be represented by a number, and must be therefore include be humber of changed. Candidates who present themselves shall in humber or changed in consecutive order (without hiatus be humbered from 1 onwards in consecutive order (without hiatus be absent or changed. Candidates who present themserves of the basent of the security of the s for absent applicants, who cannot be admitted after the numbering), which applicants, who cannot be admitted after the numbering), then coming to XI, X and IX in order. Sent applicants, who cannot be admitted after the number Guide with grade XII, then coming to XI, X and IX in order. Candidates for "Supplementary" examinations need not present builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, X and IX in our builting with grade XII, then coming to XI, the second themselves for "Supplementary" examinations need not private solution in the regular time-table. Drowintil the hour fixed for their applications and the titles the provided they have sent in their applications and the titles the papers on which they intend to write.

 $x_{an}^{(2)}$ Candidates shall be seated before the instant at \dots of ination is fixed to begin. No candidate late by the fraction of (2) Candidates shall be seated before the instant at which the a minute has a right to claim admission to the examination rooth and any candidate leaving the room during the progress of any eramination must first hand in his or her paper to the deputy aminer, and not return until the beginning of the next paper.

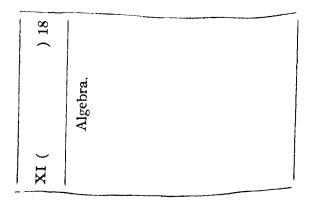
(3) Candidates shall provide themselves with pens, pencils, mathematical instruments, rulers, ink, blotting paper, and s supply of good, heavy foolscap paper of the size thirteen inches by eight.

(4) Candidates may write upon both sides of their paper. When more sheets than one are used they must be fastened together Each sheet should bear the Candidate's grade and number. order to secure high values from examiners neat writing and clear concise answers are much more important than extent of space covered or the number of words used.

(5) Each such paper must be *exactly* folded. First, by $double \\ fing, bottom to top of page, pressing the fold (paper now <math>b \\ finches$); next, by doubling again in the same direction, pressing the fold flat so as to give the size of $3\frac{1}{4}$ by 8 inches.

(6) Finally the paper must be exactly indorsed as follows: A neat line should be drawn across the end of the folded paper of half an inch from its upper margin. Within this space, $3\frac{1}{4}$ inches by $\frac{1}{2}$ inch, there must be written in very distinct characters, 1st, letter indicating the grade; 2nd, the candidate's number, and $3^{rd, 9}$ vacant parenthesis of at least one inch, within which the deputy examiner shall afterwards place the private symbol indicating station. Immediately underneath this space and close to it should be neatly written the title or subject of the paper.

For example, candidate No. 18 writing for Grade XI on Algebra should endorse his paper as shown below:—



(7) The subject, title, grade and candidate's number may be Mitten within over the commencement of the paper also; but by sign or writing meant to indicate the candidate's name, station personality may cause the rejection of the paper before it is even sent to the examiners.

(8) Any attempt to give or receive information, even should it be unsuccessful, the presence of books or notes on the person of $\frac{1}{2}$ matrix $\frac{1}{2}$ will constitute a candidate, or within his reach during examination, will constitute violation of the examination rules, and will justify the deputy the miner in rejecting the candidate's papers, and dismissing him from further attendance. No dishonest person is entitled to a Provincial certificate or teacher's license. And where dishonesty at examination is proven, provincial certificates already obtained and licenses based on them will be cancelled.

(9) It is not necessary for candidates to copy papers on ac $c_{0,unt}$ of erasures or corrections made upon them. Neat corrections or car is the stand as high in the or cancelling of errors will allow a paper to stand as high in the stimation of the examiner as if half the time were lost in copying Answers or results without the written work necessary to find then will be assumed to be only guesses, and will be valued accordingly.

(10) Candidates are forbidden to ask questions of the deputy examiner with respect to typographical or other errors which may something with respect to typographical. The examiner of the Sometimes occur in examination questions. The examiner of the paper in examination destions. Paper alone will be the judge of the candidate's ability as indicated by hist by his treatment of the error. No candidate will suffer for a blunder hot here at the error. tot his own.

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Will (11) Candidates desiring to speak with the deputy examiner hold up the hand. Communication between candidates at in the second s examination even to the extent of passing a ruler or making signs, is a violation of the rules. Any such necessary communication can be held it of the rules. be held through the deputy examiner only.

(12) Candidates should remember that the deputy examiner cannot overlook a suspected violation of the rules of examination without overlook a suspected violation. No consideration of personal without violation of his oath of office. No consideration of personal bienders thendship or pity can therefore be expected to shield the guilty or

Made at this examination, should fill in a form of application for buch lice. The deputy examiner is provided with such license as is expected. The deputy examiner is provided with black for blank forms for those who do not already have them. The appliant should have his certificate of age and character correctly made

out and signed, and should fill in the number, station and year of any previous examination he has taken, whether he has been successful in obtaining a certificate thereon or not. He should also fill in his number, station, etc., and grade of certificate or rank of M = O expected M is the formula of the state o M. P. Q. expected. This latter should be placed in brackets, which will be understood to many the should be placed in brackets, which will be understood to mean that it is not yet obtained but is expected to be obtained to be obtained.

All candidates will be required to fill in and sign the (14)following certificate at the conclusion of the examination, to be sent in with the last paper. in with the last paper :---

CERTIFICATE.

Examination Station Date July, ^{191...}

Candidate's No. (

I truly and solemnly affirm that in the present examination I e not used or had in the Error inted have not used or had in the Examination Room, any book, printed paper, portfolio manuscript paper, portfolio, manuscript, or notes of any kind, bearing on any subject of examination. that the subject of examination; that I have neither given aid to, nor sought nor received aid from one fail sought nor received aid from, any fellow-candidate; that I have not wilfully violated any of the work not wilfully violated any of the rules, but have performed my work honestly and in good faith honestly and in good faith.

Name in full)

(Without any contraction in any of its parts).

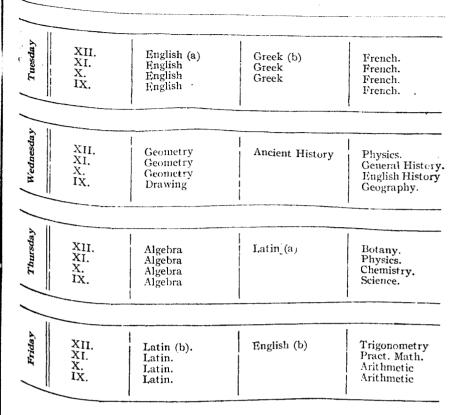
P. O. to which memo. or certificate is to be sent.

98 (a). TIME TABLE.

REGULAR PROVINCIAL HIGH SCHOOL EXAMINATION, JULY, 1910.

Day of Week	Grade.	Examinations 9 a. m., to 11 a. m.	Examinations II a. m., to I p. m.	Examinations 3 p. m., to 5 p. m.
Monday	XII. XI. X. IX.	German German German	Greek (a)	Chemistry

JOURNAL OF EDUCATION.



98 (b). TIME TABLE.

M. P. Q. EXAMINATION, JULY, 1908.

Saturday.

Time a. m. Subject.	Time p. m.	Subject.
9.00 to 10.00 1. School Law and Forms. 11.20 to 11.10 2. Theory and Practice. 2. 14.20 3. Hygiene and Temperance	2.00 to 3.00 3.10 to 4.10 4.20 to 5.20	 School Management. History of Education. Pedagogy.

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OPTIONAL EXAMINATION IN MUSIC, ETC.

(a) At the County Academy Entrance Examination and the Teacher's Minimum Professional Qualification Examination, candidates who have taken London Tonic Sol-Fa certificates can for the question in music substitute their certificates for Which values will be given as follows:—For "Junior" certificate, 10; for "Elementary" certificate, 15; and for "Intermediate" certificate, 20—the last two for M' P. Q only.

JOURNAL OF EDUCATION.

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- (b) The candidate will enter in a parenthesis as an answer to the No. of the question or a parenthesis as an answer of paper, the No. of the question on music in his examination paper," the words, "Junior Certificate." the words, "Junior Certificate," or "Elementary Certificate or "Intermediate Certificate," or "Intermediate Certificate," or "Elementary Certificate that such a certificate has been h such a certificate has been handed to the deputy examination bearing on its back the normal bearing on its back the name, and address, and examination number and station of the number and station of the candidate plainly endorsed upon it.
- (c) The certificate will be received by the deputy examined compared with his list compared with his list to verify the correctness of the envelope dorsation by the candidate dorsation by the candidates, then enclosed in one envelope addressed, in the case of the addressed, in the case of the Academy Entrance, to Principal, and in the case of the Academy Entrance, to Superintende Principal, and in the case of the M. P. Q. to the Superintent ent of Education. who attact ent of Education, who, after perusal, shall return them to the respective candidates
- (d) The Principal or the Superintendent, as the case $\max_{a} \lim_{a \to a} \max_{a} \lim_{b \to a} \lim_{a} \lim$ shall then endorse 10, 15, or 20 points (according to a) of the examiner's report on the condition the provide the providet th examiner's report on the candidate's paper for the total valuation number and satisfies general valuation number and add the two together for the total value of the paper
- To prevent the possibility of two values being given by cident, the examiner of a provident of a certification accident, the examiner of a paper in which a certificate is substituted for the question about substituted for the question, shall mark the general values of the paper with an asterick bet of the paper with an asterisk, both on the paper and on the report. (e)
- (f) No certificate from any local examiner of the examiner Tonic Sol-Fa College shall be accerted in the examined has pressive. Tonic Sol-Fa College shall be accepted, unless to the Principal or Superintered tome Sol-Fa College shall be accepted, unless the principal has previously given a satisfactory proof to the appointed as local examiner of or Superintendent that he or she has been duly appointed the authorities of the grade of the state in question a superintendent that he or she has been duly appoint as local examiner for the grade of certificate in question the authorities of the said College
- (g) At the County Academy Entrance Examination the cert ficate of Attendance for a year of the barrie Science answer or a Domestic Col ficate of Attendance for a year at a Mechanic Science and to a guestion or a Domestic Science school, can be accepted for "Junior to a question on the subject in 12. Tonic Sol-Ro to a question on the subject in like manner as the '100 to the character of the character of the subject in like manner as the '100 to the character of the cha Tonic Sol-Fa certificate—value from 0 to 20, according to the character of the candidate's most

No person can be a teacher in a public school of public ablic money without a License from the Council of ablain blic before obtain 100. No person can be a teacher in a public school entrie to draw public money without a License from the council of obtain Instruction Before obtain

PHENOLOGICAL OBSERVATIONS -(Continu Shearing of Sheep	(a)	(b)
Opening of (a) Rivers, (b) Lakes without currents.	(a)	(b)
Opening of (a) Rivers, (b) Lakes without currents.	(a)	(b)
Opening of (a) Rivers, (b) Lakes without currents.	(a)	(b)
Opening of (a) Rivers, (b) Lakes without currents.	(a)	(b)
(METEOROLOGICAL PHENOMENA.) Leat Snow (a) to white a state of the second secon	(a)	(b)
Opening of (a) Rivers, (b) Lakes without currents	(<i>a</i>)	(b)
Opening of (a) Rivers, (b) Lakes without currents	<i>(a)</i>	
Least Snow (a) to whiten ground, (b) to fly in air		
Last Show (a) to whiten ground, (b) to fly in air		
by Spring E. (b) to fly in air		
Water in Streams, Rivers, &c., (a) highest, (b) lowest First Autumn Frosts, (a) "hoar" (b) "hoar"		
Pirst Autumn Frosts , (a) " hoar" (b) " hoar" First Autumn Frosts , (a) " hoar" (b) " hoar" Closing of (a) t of fly in air, (b) to whiten ground		1
Silbito Still Proste () ()		
Number of Thunder Storms (with dates of each), Apr	Ms	, W
Jan funder of Thunder Storms (with dates of each), Feb, Mar, Apr		
Way of year corresponding to the last day of each month.]		
Aug		••••
Day Nov	Dec	· · · · · · · · · ·
[Day of year corresponding to the last day of each month.] Jan, 31. April 120. July 212. Oct. 304. March 59. April 120. July 212. Oct. 304.	Going North or coming in Spring.	Going South or leaving in Fall.
Reb 31 aresponding to the last day of each month.	ing	L tigit.
March 90, May 151, Aug. 243, Nov. 334. LaAp Years increase each number except that for January by 1. (March 90, May 151, Aug. 243, Nov. 334. June 181 Sept 273, Dec. 365. (March 90, May 151, Aug. 243, Nov. 334. (March 90, May 151, Nov. 334. (March 90, May 151. (March 90, May 151. (Mar	Nod	a ea co
44 Ven 10, June 10, Aug. 243. Nov. 354.	80 ° 00	8 H
Scars increase as 181 Sept 273. Dec. 505.	E G G	E.5 6.
(MIGRATION OF BIRDS, ETC.) Wild Duck migrating		
A erican o ychonyx oryzivorus)		
American Golden		
American Gold Finch (Spinus tristis)		
Anerican Gold Finch (Spinus tristis)		
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American Gold Finch (Spinus tristis) Cedar Waxwing (Ampelis cedrorum)		
American Gold Finch (Spinus tristis) Cedar Waxwing (Ampelis cedrorum)		
American Golden		:

The Bo, to what extent? etc. Brown Tail Moth, etc.

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PHENOLOGICAL- OBSERVATIONS-(Continued)

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[]	Day of y	ear co	orresponding to	the last day	y of each n	nonth.]	When First	
	Jan.	31.	April 120.	July 212.	Oct.	304.	5 S	3.
	Feb.	59.	May 151.	Aug. 243.	Nov.	334.	VP:	3
	March	90.	June 181,	Sept. 273.	Dec.	365.	₽.,	1
For I	Сеар уе	ars ind	erease each nur	nber except t	that for Jar	uary by 1.)		
8. 1	Pigeon l	Berry	(Cornus Canad	ensis), fruit ı	ipe		,	
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			ntonia borealis					
			Calla palustris)					1
2.]	Lady's S	Slipper	(Cypripedium	acaule), flov	vering	• • • • • • • • • •		
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. 1	Yellow 1	ond I	ily (Nuphar ac	lvena), flowe	ring :			·
	Raspber	ry (Ru	bus strigosus),					
3.			" "	fruit ripe .				1
I. Y	Yellow I	A attle	(Rhinanthus C	rista-galli), f	lowering			l
	High Bla	ickber	ry (Rubus ville	osus), floweri	ng			
i.	**		" "	fruit ri	pe			
	litcher 1	Plant (Sarracenia pu	purea), flow	ering			- 1
3. F	Ieal-All	(Bru	iella vulgaris),		"			
			Rose (Rosa luc				1	Ľ.
). F	fall Dan	delion	(Leontodon a					
			gs (Linaria vul	garia,				1
. K	-		ves in spring r leafing trees g		pear green	(a) first		
			Cultivated	•	.)			.]
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•	••		" "	fruit rine				
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•			• truit	ripe				
. P	ium (Pr	unus d	lomestica) flow	erina				
	Phie (1	yrus <u>N</u>	latus), flowerin	ø				I
	nace (isy)	mga y	ulgaris), flowe	rino			1	
	11100 01	1946L L	Fritolium rener	(S) flowering				f
	ou oror	or (rr	Iolium matens	e), ''			1	4
T	imothy	Phlen	m prateuse)	" "			· · · · [
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		(1	ARMING OPER	ATIONS, ETC.)			ľ
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PHENOLOGICAL OBSERVATIONS, CANADA

Propertion of f .	No ing observa- ast e main river
The estimated length and breadth of the locality within which the following were madeX	No ing observa- ast e main river
The estimated length and breadth of the locality within which the following were madeX	No ing observa- ast e main river
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aller, Estimated altitude above the sea levelfeet. Appe or general exposure of the region	e main river
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the region include lowlands or intervales?and if so name the tream	
Or is it all substantially ingliants :	••••
most center t	
Post Office of the locality or region.	•••
The most central Post Office of the locality or region.	1
ADDRESS THE THE TO THE THE	<u></u>
ObsERVATIONS RESPONSIBLE FOR THEIR ACCURACY.	When Becoming onmon
	her
	when Becom Common
(WILD PLANTS, ETC NOMENCLATURE as in "Spotton" or 'Gray's Manual').	
Alt. "Gray's Manual ').	
 Alder (Alnus incana), catkins shedding pollen Kayflower (Populus tremuloides), '' Field part (Epigaa repeats) flowering 	
4. Rise Viewer (D	
 4. Hayflower (Populus tremuloides), ''. 4. Field Horsetail (Epigea repens), flowering	
 Blood-root (Sanguinaria Canadensis), flowering	
 White Violet (Viola blanda), flowering	
A Repair Viet (Viet, 1997) flowering	
ha ded to the thirty of the thirty of the	
 a. Hepatica (Viola blanda), Howering	
to the Angering	
is Usha	
Add ton (Tarana and the flowering, the second second	
 4. Adder's Tongue Lily (Erythronium Am.), flowering. 4. Spring Beauty (Claytonia Caroliniana), flowering. 	
be the stead (Construction of the second	
17 Ton - Wauty (OL	
It Indian Pero (Nepeta Glechoma), flowering	
 i and Ivy (Nepeta Glechoma), flowering	
Wild Red Cherry (Prunus Pennsylvanica), flowering Blueberry (Vacci Cherry and Cherry (Prunus Pennsylvanica), flowering	
Blueberry (Vo	
 a. Cherry (Prunus Pennsylvanica), flowering	
Creeping p (Ranunculus acris), flowering	
Paint Butter (Ranunculus acris), nowering	
 Greeping Buttercup (Ranunculus acris), flowering	
 Resping Buttercup (R, repens) flowering	
 Rhodora (Rhododendron Rhodora), flowering Pigeon Berry (Cornus Canadensis) florets opening 	

(To be handed promptly on its receipt by the Secretary of every School Board to each Teacher employed within the School Section.)

LOCAL "NATURE" OBSERVATIONS.

(To be sent in to the Inspector with the Returns in February and July.)

This sheet is provided for the purpose of aiding teachers to interest their papile in First, it may help the teacher in doing some of the "Nature" lesson work of the Course of Sudd Becondly, it may aid in procuring valuable informatic and the course of secondly, it may aid in procuring valuable information for the locality and province. copies are provided for each teacher who wishes to conduct such observations, are to be rent proserved as the property of the section for refer to be rent preserved as the property of the section for reference from year to year; the other to be real in with the Return to the Inspector, who will transform year to year; the other for examination and and for examination and for the formation and formation and for the formation and formation and for the formation and formation and formation and for the formation and formation and formation and formation and formation and formation and for the formation and f in with the Return to the Inspector, who will transmit it to the Superintendent for examination and compilation

What is desired is to have recorded in these forms, the dates of the first leafing, foreing and fruiting of plants and treases the dates forms, the dates of the first leafing migration north in spring or plants and trees; the *first* appearance in the locality of birds migness enable comparison to be made between While the objects specified here are given to very denie to be made between the specified here are given to be the specified here are given to be the specified here are given by the specif enable comparison to be made between the different sections of the Province. it is here Every locality has a flora, fama, climate, etc., more or less distinctly its own; and the more common trees shrubs, plants, crops, etc., are those which will be recorded. shrubs, plants, crimate, etc, more or less distinctly its own; and the more common term in comparing the characters of a series of serie in comparing the characters of a series of seasons.

Teachers will find it one of the most convenient means for the stimulation of pupils in some papil. becomes will find it one of the most convenient means for the stimulation of pupils is a some pupile radiate as far as two miles from the school more than the school, and some conditions would there it these conditions will be the school more than the school radiate as far as two miles from the school room. The "nature study" under these conditions would thus be mainly undertaken at the mature study "under the school room. tions would thus be mainly undertaken at the most convenient time without encroaching of school time; while on the other hand it will tout to a school time without encroaching of the school travely and travely and travely and the school travely and trav school time; while on the other hand it will tend to break up the monotony of school educe. fill an idle and wearisome hour with interest and here fill an idle and wearisome hour with interest, and be one of the most valuable forms of educes in the section will be used to be a whole school determined be and wearisome hour with interest, and be one of the most valuable forms of school section will be used to be a whole school determined be a school section will be used to be a whole school determined be a school section will be used to be a whole school determined be a school section will be a school section wil tional discipline. The eyes of a whole school daily passing over a whole school section will let very little escape notice, especially if the first charge over a whole school section will phenomenon mark let very little escape notice, especially if the first observer of each annually recurring phenomenon receives credit as the first observer of it for the received will be accurate, as the first phenomenon receives credit as the first observer of it for the year. The observations as the facts must be demonstrated by the most and the first observer of the year. accurate, as the facts must be demonstrated by the most undoubted evidence, such as the facts of the specimens to the school when possible and undoubted evidence, such as the facts are the school when possible and the school when possible are the s

To all observers the following most important, most essential principles of recording are nasized: Better no date, NO RECORD, than a WRONG OUT A DEPARTMENT one, be f season due to whether the season due to the bringing of the specimens to the school when possible or necessary. emphasized: Better no date, NO RECORD, than a WRONG ONE or a DOUBTFUL one. Job be out of season due to very local conditions not common to the total should should be informed. out of season due to very local conditions not common to at least a small field, should align with these of recorded except parenthetically. The date to be recorded for the purposes of compilation with those of other localities should be the first of the many the purposes of compilation ately after it. with those of other localities should be the first of the many of its kind following erany ately after, it. For instance, a butterfly emerging from its kind following erany by a southerm For instance, a butterfly emerging from its chrysalis in a sheltered but of indow in January would not be an indication of the sheltered but of a sheltered but of the sheltered by a southern window in January would not be an indication of the general climate, in the peculiarly heated nook in which the chrysalis was shall a flower in semi-artificial, warms of the general climate, in a the peculiarly heated nook in which the chrysalis was sheltered; nor would a flower in semi-artificial, warm shelter, give the date recovered. When the semi-atter is nor would a flower of they might also be the semi-atter is a semi-atter in the semi-atter is a semi-atter in the semi-atter in the semi-atter is a semi-atter in the semi-atter in the semi-atter is a semi-atter in the semi-atter in the semi-atter is a semi-atter in the semi-atter in the semi-atter is a semi-atter in the semi-atter in the semi-atter in the semi-atter is a semi-atter in the semi-atter in the semi-atter in the semi-atter is a semi-atter in the semi-atter in t semi-artificial, warm shelter, give the date required. When these sports out of season occur they might also be recorded, but within a parenthesis to indicate the peculiarity of some of the conditions affecting their early appearance

These schedules should be sent in to the Inspector with the school returns in July February, containing the observations made do the total with the school returns to June) and Fall (June to December to June) and and February, containing the observations made during the Spring (January to June) and the Fall (June to December respectively.

Remember to fill in carefully and distinctly the date, locality, and other blanks at the responsible computer is for if either the schedule on the next page; for if either the locality is locality or the next page. head of the schedule on the next page; for if either the date, locality, and other blanks at of the responsible compiler should be omitted the whole paper is worthless and cannot be bound up for preservation in the volume of The Phonelevice Otherwations. bound up for preservation in the volume of The Phenological Observations.

By the aid of the table given at the top of pages 3 and 4, the date, such as the 24th of tor instance, can be readily and accurately connect and 4, the date, such as "the 14th of the year," by addimentation of the year," by addimentation of the second se day of the year," by adding the day of the month given to the annual date, it he last day of the year," by adding the day of the month given to the annual date, it he last day of the preceding month (April in this case), thus: 24+120=144. The annual date of the last day phenological studies. When the compiler is quite certain that he or she can make the one version without error, the day of the day is quite certain that he or she can make the day of the day of the day of phenological studies. When the only kind of dating which can be conveniently averaged our version without error, the day of the version that he or she can make the end in recording the day of the version that he or she can make the preferred in the the month will be preferred. version without error, the day of the year instead of the day of the month will be preferred in recording the dates.

first, a certificate of the prescribed GRADE of Schoralship; second, the prescribed certificate of professional RANK as a teacher, either from the Provincial M. P. Q. Examination (which must be supplemented for all classes higher than *third* class, by the prescribed certificate of ability to give effective physical training to pupils), or the Provincial Normal College; *third*, the prescribed certificate of age and character from a minister of religion or two Jusbysician proving freedom from active tuberculosis of lungs, offensively smelling catarrh, or other disqualifications. The value the term GRADE; of professional skill by the term RANK. Full to 114 inclusive, but the following collocation of the terms used will help to explain their significance and relation:—

Generally,

(I)

(2)

(3)

Acad "Teac	her's Pass Scholarship,"	Normal Diploma.	Age & Character.
Class A requir	her's Pass Scholarship,"	tion .Academic.	22 years,
Class B requir	sterUniversity Gradua	Academic Rank	20 years, etc.
Class C "	esGrade XII	First Rank	19 years, etc.
Class D "	Grade XI	Second Rank	18 years, etc.
Class D "	Grade X	Third Rank	17 years, etc.
Class D "	Grade IX	(M. P. Q.)	16 years, etc.

The following are the exact requirements for the licensing of teachers:

¹⁰¹. No diploma of the Provincial Normal College shall be scholarship of any candidate who is found defective (below 40%) in the the in the corresponding grade, until the Faculty is satisfied that reditable proficiency has been made in each subject.

 $t_{aduation}^{102}$ When a candidate obtains a teacher's license without $c_{ass}^{aduation}$ from the Provincial Normal College, it can be only of a one degree lower than the "teachers' pass" grade of scholarship.

^{103.} Graduation from the Provincial Normal College will ^{103.} Graduation from the Provincial Normal College will ^{103.} An end of the prescribed certificate for Physical Training. No perthis qualification after 1908.

Jualification except the possession of a lawfully procured License lives a person authority to teach under the law in a public school. The regulations governing the issuance of licenses are as follows,—

105. The permanent Licenses of Public School teachers shall be under the SEAL of the Council of Public Instruction signed by the Secretary of the Council, shall be valid for the whole province during the good behaviour of the holder, and shall be granted on the fulfi-ment of the three with ment of the three conditions more fully specified in the succeeding regulations, namely: the presentation of the prescribed proof of (1) age and character, (2) scholarship, and (3) professional skill.

106. There shall be five classes of such licenses, which may be designated as follows:----

Academic Class-Academic Headmaster.

Class A-High School Master.

Class B-First Class.

Class C--Second Class.

Class D-Third Class.

107. The certificate of professional qualification of skill shall a) the academic first second be (a) the academic, first, second or third RANK classification by the Normal College or (b) the minimum of the second of the se Normal College, or (b) the minimum (which shall rank one degree lower than the mormal) and a state of the shall rank one degree lower than the normal), and shall be the academic, first, second of third rank pass on the following third rank pass on the following papers written on the Saturday of Provincial Examination work

MINIMUM PROFESSIONAL QUALIFICATION EXAMINA-

The questions set for the minimum professional qualification ninations shall be on the full examinations shall be on the following svllabus and may require free hand drawing in any quantized to a state of the state

1. School Law and Forms.

- (a) The acts of the Legislature and Regulations of the Count cil of Public Instruction cil of Public Instruction bearing on public education, with their latest amendments their latest amendments, and a knowledge of the way is which the law is to be admini
- (b) The proper keeping of the School Register, the making out of neat and accurate and school Register, the making out of neat and accurate school Register, the manage of all the ordinary forms are a knowledge in ad of all the ordinary forms required by school boards in ad-minstering the affairs of the

2. Theory and Practice of Teaching.

As in Calkin's "Notes on Education," or any equivalent.

3. Hygiene and Temperance.

As in Lyster's "School Hygiene," (Univ. Tutorial Press), the education Act and Regulations, and the text books prescribed for the public schools.

4. School Management.

As in Lectures on Teaching, by Sir Joshua Fitch.

5. History of Education,

As in Monroe's "Brief Course" (MacMillan Co.)

6. Pedagogy.

As in Bagley's The Educative Process.

For Third Rank M. P. Q.—An aggregate of 150 on 1, 2 and 3, With no subject below 30 per cent.

For Second Rank M. P. Q.—An aggregate of 250 on 1, 2, 3, 4, ^{and 5}, with no subject below 40 per cent, and with the prescribed ^{certificate} of physical training.

5, For First Rank M. P. Q.—An aggregate of 300, on 1, 2, 3, 4, and of with no subject below 50 per cent, with the prescribed certificate physical training.

⁴, ⁵, ⁵, ^{and} ⁶, with no subject below 50 per cent, with the prescribed ^{certificate} of physical training.

the appropriate source of certificates of professional qualification for public school teachers; but the certificates of other Normal or teachers' training schools whose *curricula* may be satisfactorily Provincial Normal College, may be accepted when qualified by the Addition of the three following conditions: (a) a pass certificate of the the corresponding rank, (b) a certificate of a Public School Inspectdemonstrated by the test of actual teaching for a sufficient period the prescribed certificate for Physical Training.

had been completed before the grade of scholarship necessary for the

class of license afterwards applied for was obtained, no license shall be issued until after the lapse of a year from the date of the certificate of high school grade required for the said license.

109. The prescribed certificate of age and character is given in the following blank form of application for license, which will be supplied to candidates by the Education Department, through the Inspectors or the Principal of the Normal College:---

FORM OF APPLICATION FOR A TEACHER'S LICENSE.

То.... Inspector of Schools, Division No.....Nova Scotia. I hereby beg leave through you to make application to the Council of Public Instruction for a Teacher's License of Class, theand herewith I present evidence of compliance with the conditions prescribed, namely :---I. The prescribed certificate of age and character hereto at-ed, which I affirm to be true tached, which I affirm to be true. II. My certificate of Scholarship......obtained year 191.. (Further information below.) • • • • • • • • • • • • • IV. The prescribed certificate for Physical Training, ob-V. The prescribed certificate of Health. (Name in full)..... (Post Office address)..... (County) Date

CERTIFICATE OF AGE AND CHARACTER.

I, the undersigned, after due inquiry and a sufficient knowledge of the character of the above named candidate for a Teacher's License, do hereby certify:—

in full), was born on the	(name
in the day of	
bealth year; and is apparently	in good
and physically fitted for effective teaching; and	

That I believe the moral character of the said candidate is good, and such as to justify the Council of Public Instruction in assuming that the said candidate will be disposed as a teacher to "inculcate by precept and example a respect for religion and the principles of the highest regard for truth justice, love of Christian morality, and the highest regard for truth, justice, love of country, loyalty, humanity, benevolence, sobriety, industry, frusality, chastity, temperance and all other virtues."

• • • • • • • • • • • • • • • • • • •	(Name and title.)
•••••••••	(Church or Parish).
Date	

(When the certificate given above is signed by "two Justices of the Peace" instead of a "Minister of Religion,' the word "I" should be changed by the pen into "we", and after the signature on the second line the words "Church or Parish" should be can-celled by the pen into "we", and after the signature elled by a stroke of the pen.)

The correct quotation of the High School certificates in II, above Will be considered as equivalent to its presentation. When the canding considered as equivalent to its presentation. candidate makes application at the High School Examination Sta-tion in the sector peritten for and expected may tion, the grade or rank of certificate written for and expected may be and be entered, but shall be enclosed in a parenthesis, which will be undered, but shall be enclosed result of the Examination. understood to indicate the expected result of the Examination.

The correct quotation of the Provincial M. P. Q. Certificate or the Provincial Normal College Diploma in III and the Physical $T_{r_{ain}}$ is considered as equivalent Training Certificate in IV above, will be considered as equivalent to its – to its presentation.

Any certificate from Normal Schools, etc., which are not re-Rularly certificate from Norman School, must accompany this ap-plication office, must accompany this application as evidence of the correctness of the statement.

FURTHER INFORMATION FROM APPLICANT

² . University Degrees,	Scholarship, Professional Training,
experience, or any other infor	mation candidate may wish to state.
· · · · · · · · · · · · · · · · · · ·	

3. Provincial High School Examinations taken in addition to that specified in II above, whether a "High School Pass" certificate was obtained or not (necessary to prove that the candidate made a "Teachers' Pass" in the lower grades.)

Recognized Univ	ersity Work at Examin	ation Station.	Vear
On Grade XII.	<i>u</i>	**	····· ···· ···· ··· ··· ··· ··· ··· ··
" XI.	**	14	····· ····· ····· ···· ··· ··· ··· ···
" X.	"	"	· · · · · · · · · · · · · · · · · · ·
" IX.	"	44	·····

GENERAL OR SPECIAL INDORSATION OR REMARKS BY INSPECTOR (OR PRINCIPAL OF NORMAL COLLEGE.)

Inspector. Place and Date.....

ACADEMIC HEADMASTER'S LICENSE.

[Regulations 110 (a), (b) and (c), as published on page the of the JOURNAL OF EDUCATION, April, 1908, are repealed and the following substituted following substituted.

110. (a). For an Academic Headmaster's License, the wing are the requirements. following are the requirements:---

- I. A certificate of moral character signed by a Minister of Religion or two Justices of the D of Religion or two Justices of the Peace, as in the pre-scribed form to the affect that the scribed form, to the effect that the candidate is of the full age of twonty-two full age of twenty-two years, and presumably likely to perform the duties required by law.
- 2. A recognized degree from a recognized University degree or University degree or University shall be recognized unless the course is proven to be one of at i is proven to be one of at least four years following a provincial High School Dece and the set of t vincial High School Pass of Grade XI., or a matriculation standard shown to be its virtual equivalent); and a pass on a testing post-graduate on a testing post-graduate examination of University grade.
- 3. A certificate of Academic rank from the Provincial Nor the mal College. (In the awarding of this certificate, at Faculty of the Provincial Normal College may accept at their true value the cortificate their true value the certificates of the Normal training schools,

*Regulation 110 b showing the detailed syllabus of this post-aduate examination will be the detailed syllabus of this prograduate examination will be found following the High Schoel Pro-gram on subsequent boxes gram on subsequent pages.

of the Education Faculties of Universities, and of Inspectors, in lieu of a portion of the minimum attendance prescribed by the Council, provided (i) the candidate has made an Academic pass on the M. P. Q. syllabus, (ii) has obtained the prescribed Physical Training Certificate, (iii) has taught successfully for at least two years, one of which must be as a full teacher in a department of high school grade, and (iv) has demonstrated satisfactory professional proficiency in the art of teaching before the Normal College Faculty by whom the candidate shall also be examined viva voce.)

(ranking as the equivalent of Class A. or High School Master's License Council in 1908) the following are the regulations of the requirements: (1) A retificate of the full age of twenty years, and moral character as in the foregoing regulation. (2) A pass certificate of Grade XII. (3) A certificate of Academic rank professional qualification from the Provincial Normal College.

ditions are necessary: (1) A certificate of the following conyears, and moral character as in the foregoing regulation. (2) A teacher's pass certificate of Grade XI. (3) A teacher's certificate of first rank professional qualification from the Provincial Normal College; or a Teachers' Pass certificate of Grade XII, with a first rank M. P. Q., including the prescribed Physical Training certificate.

 ti_{Ohs} are necessary:--(1) A certificate of the full age of eighteen years and moral character as in the foregoing regulation. (2) A Teachers' Pass certificate of Grade X. (3) A certificate of second rank professional qualification from a Normal College; or a Teachers pass certificate of Grade XI, with second rank M. P. Q., and the prescribed Physical Training.

are necessary:—(1) A certificate of the full age of seventeen years and moral character as in the foregoing regulation. (2) A Teachers' pass certificate of Grade IX. (3) A certificate of third rank propass, certificate of Grade IX. (3) A certificate of third rank propass, certificate of Grade X with third rank M. P. Q.

TEMPORARY LICENSE.

only for one year, may be granted (but not previous to the 15th day following four conditions are fulfilled:—(1) A certificate of the full

age of sixteen years and moral character as in the foregoing Regulation. (2) A pass certificate of at least Grade IX as in the foregoing Regulation. (3) The Third rank minimum professional qualifica-(4) A recommendation of the candidate as a temporary tion. teacher for a specified school by the Inspector who must previously be assured by the trustees of the said school that, although reason able effort was made to employ a regular teacher of permanent class, one could not be obtained, and that the candidate would be acceptable to the school section as a teacher for the year. Such License can be re-issued for another year when the candidate has demonstrated an advance of grade or rank in his qualifications at a subsequent Provincial T at a subsequent Provincial Examination.

(b) On the recommendation of the Normal College at Truto, the Council of Public Instruction may award Kindergarten have lomas of First and Second Ranks to approved candidates who have respectively the scholarchie respectively the scholarship qualifications of *First* and *Second* Class Teachers and who have such as the scholarship of the Class Teachers, and who have successfully taken a full years' course in the Truro Kindergerter and Strand in the Truro Kindergarten affiliated with the Provincial Normal College: and that such Dislowers College; and that such Diplomas shall be taken by the Superior tendent of Education as the and tendent of Education as the equivalents respectively of First and Second Class Licenses in the directly of the second class First and Second Class Licenses in the distribution of the Provincial Aid to the teachers holding them the teachers holding them.

(c) On the recommendation of the Superintendent of Edu cation and the Principal of the Provincial Normal College, Normal trained teachers from any part of the Division of the Divisi trained teachers from any part of the British Empire may be awar ded a provisional license for one user ded a provisional license for one year, of a class as high as war scholarship and professional training of the candidate may digg rant. On the advance of the candidate's qualifications according to the Nova Scotia regulations actions according to the Nova Scotia regulations, and the inspector's recommen-dation, the license more be specified. dation, the license may be continued for a subsequent year.

(d) Should arrangements be made for the exchange of teach or one year from any portion of the second of the second of ers for one year from any portion of the Empire or from France of Germany, the council may on the Germany, the council may on the recommendation of the superior tendent and principal of the Name tendent and principal of the Normal College, award a provisional license of the same class to the license of the same class to the foreign substitute.

PROVINCIAL EDUCATIONAL ASSOCIATION.

126. The Superintendent of Education shall have authority to assemble annually, sirable, at the Normal College, or any other planet in the approved by and if desirable, at the Normal College, or any other place which may be approved by ional association, whose object shall be to promote the efficient operation of the public school system, and the professional improvement of its members by the discussion and efficiency and the discussion and problems.

127. The membership shall be:

(a) Representative members entitled to enrolment on the payment of one dollar at each annual convention. From the principal dollar at each annual convention; Ex officio, the Superintendent, the principal and professors of the Normal College, the provincial examiners, the inspectors of schools, and the presidents of the universities within the province; Elective, one professor from each university chosen by the faculty, one teacher for every twenty in each inspectorial division chosen by the institute (or in the event of its failure by the inspector), one delegate chosen by any school board or group of school boards employing twenty teachers, or by any learned trade, or industrial society or organization of provincial scope.

(b) Ordinary Members consisting of persons interested in any way in public education are entitled to enrolment on the payment of one dollar at each annual convention.

¹²⁸ The Superintendent, the principal of the Normal School, and ten other per- $\mathbf{x}_{0,\mathbf{k}}$ chosen at each annual convention by the ordinary members of the association, $\mathbf{x}_{0,\mathbf{k}}$ of $\mathbf{w}_{\mathbf{k}}$ of $\mathbf{w}_{\mathbf{k}}$ constitute the executive $\mathbf{v}_{\mathbf{0}e}^{\text{chosen}}$ at each annual convention by the statistical division, shall constitute the executive $\mathbf{v}_{\mathbf{0}mitt}$ whom shall be from each inspectorial division, shall constitute the executive $\mathbf{v}_{\mathbf{0}mitt}$ and $\mathbf{v}_{\mathbf{0}}$ of whom shall be from each inspectoral division, shall constitute the executive committee, which shall have control of all funds raised by the association, and shall appoint its own secretary-treasurer to receive and disburse those funds under its own direction (1) direction. The executive committee shall have general management of the affairs of the association. The executive committee shall have general management of the affairs of the association of the the fixing of the times of meeting and the prothe association. The executive committee shall have got the times of meeting and the pro-stan of or the specially in respect to the fixing of the Superintendent of Education. association, especially in respect to the name of exercises, subject to the approval of the Superintendent of Education.

SPECIAL VACATIONS AND DAYS.

138. Teachers engaged for a full school year in any school Section, who shall have taken a "mid-summer vacation" course of at a the Provincial Normal of at least five full weeks (thirty days) at the Provincial Normal $A_{A_{A_{A_{A_{A_{A_{A}}}}}}$ be allowed in additional week, or Agricultural College, Truro, may be allowed in additional week, or for or for specially good reasons, two additional weeks, of vacation at the specially good reasons, two additional weeks of vacation at the opening of the following school term (or other time if special reason opening of the following school term) on presentation to the t_{easons} recommend it to the Inspector), on presentation to the I_{hspect} recommend it to the Inspector) half school year of a $I_{nspector}^{sons}$ recommend it to the Inspector, on I request to the first half school year of a request of not later than the end of the first half school year of a request for it by the school trustees, to which must be attached a certic a certificate of satisfactory attendance and deportment from the acting \mathbf{x}_{cling} principal of the summer school or the quotation of a physical training certificate obtained.

Other "mid-summer vacation" schools formally approved by the Education Department may be similarly recognized to the extent extent of one additional week, if the course was at least three weeks long.

entirely to some special object the demonstrative effect of which ^{139.} It has been found very inspiring to devote certain days can be made much more intensive than that of the same time broken made much more intensive than that of the same time broken up into a routine of short fragmentary lessons spread over a few up into a routine of short fragmentary lessons spread over a few weeks. Such occasions when managed properly, are of more value : value in teaching effect than the ordinary routine day. In fact, they can accomplish in some cases what could never be accomplish-they are by no means holidays. et so effectively in any other way. They are by no means holidays. et, and any other way other way of the part of the teacher, and generally also on the part of the pupil.

of the proper management and cultivation of our forests, to the 140. Arbor Day.—To call special attention to the importance value of the afforestation of lands which cannot be so productive in any other manner, and to the bearing of forestry on the rainfall, drainage, climatic and industrial condition of the province, to encourage the proper adornment of the school grounds, to cultivate a taste for the beautiful in nature, and to give some practical and objective lessons in tree planting, and the study of tree growth, for such objects the following directions are given:

- (a) On such day of May as according to season, weather of other circumstances may be deemed most suitable, trustees are authorized to have substituted for the regular school exercises of pupile the exercises of pupils, the planting by the latter of trees, shrubs and flowers, on the grounds surrounding the school house. The day devoted to this purpose shall be known and entered in the register on "All in the register as "Arbor Day," and when duly observed full credit will be simple full credit will be given for it in the apportionment of public funds on the basis of the funds, on the basis of the actual attendance of pupils as ascer-tained by roll call at the l tained by roll call at the beginning of the exercises or other convenient time during in the interview of the exercises of all the convenient time during their progress. Additional value and interest should be imparted by mingling with the practical duties of the oppositical duties of the occasion short addresses from the teacher and other competent and other competent persons on the æsthetic and economic importance of arborioulty importance of arboriculture. During their summer visit ation inspectors shall tal ation, inspectors shall take note of all schools in connection with which "Arbor Day" had with which "Arbor Day" has been observed.
- (b) Teachers who have been able to observe this day in a use ful manner are recommended to make a special report on the same within a week to the inspector, specifying the work done on the occasion, and its prospective influence on the section. From these statements inspectors can have the details necessary for their annual reports to the Superior tendent of Education.
- (c) There will be found subjoined some practical suggestions which will be serviceable to those who wish to make the occar sion a really profitable one.

(1) In selecting trees, it is well to avoid those that bear flowers or bear edible fruits, as such in the flowering and fruiting seasons are apt to meet with injury from ignorant or mischievous passers-by, and to offer temptation to the pupils. Butternuts and horse from the liability of its balsam to stain the hands and clothing. Deciduous or balsam to its reference is taken, the young saplings of the elm, maple, and ash, as found in the undergrowth of the forest, can be transplanted without difficulty.

(2) No school grounds should be without a suitable number and variety of the standard deciduous trees. However, during the winter season these are bare as unattractive, and afford little or no shelter. On the other hand, evergreens, such as spruces, pines, hemlocks and cedars, retain their foliage and provide a shelter as useful in winter as it is grateful in summer. Trees should always be planted according to

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definite plan, being arranged either in curves or in straight lines, according to circum-stances and being arranged either in the building and fonces. They should not be stances and with an obvious relation to the building and fences. They should not be placed and with an obvious relation to the building and fences. placed so near the school house as to interfere with the free play of light and air.

(3) Our native trees grow so freely in the woods that we are apt to suppose they are merely to be taken up by the roots and transplanted, to start at once into a vigorous growth, by to be taken up by the roots and transplanted, to start at once into a vigorous growth and the taken in digging up the **Browth** as before. This is a mistake. Great care should be taken in digging up the trees to preserve the fibrous roots; long runners should be cut across with a sharp this end to be the taken in the sharp the should be the should be cut across with a sharp the should be and the should be cut across with a sharp the should be and the should be cut across with a sharp the should be and the should be across with a sharp the should be across the shou to elay not torn. All trees thrive best in well-drained soil, varying from sandy loam to elay A clay loam suits all descriptions. The holes for the trees should always be made before the trees are brought to the ground, and should be too large rather than too $g_{\rm RD}$ to $g_{\rm RD}$ to the trees are brought to the ground, and should be too large rather than the surface should be returned first, to as to be nearer the roots, but where the soil is at all sterile, and generally, there thould be nearer the roots, but where the roots some well-rotted compost, mixed with sand, should be put below and round the roots some well-rotted compost, mixed with sand, and sand, be put below and round the growth of the rootlets. In setting the tree it and sandy loam, in order to promote the growth of the rootlets. In setting the tree it should be though y loam, in order to promote the growth of the bottlets. In setting the tree ho out ball be placed a little deeper than it stood before, and the roots should be so spread out that none are doubled. When finally planted the tree should be tied to a stout tick in much or stable litter should tick in such a way as to prevent chafing the bark. Some mulch or stable litter should then he there a way as to prevent the provent the roots from drought. Stirring the ground then be thrown around the stem to prevent the roots from drought. Stirring the ground is preference of the stem to prevent the roots from drought. Stirring the ground preferred by some cultivators to mulching. In transplanting evergreens, the roots to mulching. bold not be exposed to air or light-especially the heat of the sun-more than can

Several varieties of shrubs planted together in clumps produce a very pleasing effect, while the care of judiciously arranged flower beds will be to the children an mportant means of education.

141. Empire Day.

(a) The establishment of this day followed a recommendation of the Dominion Educational Association at its third triennial convention which met in Halifax. The Council of Public Instruction of Nova Scotia adopted the recommendation immediately after, on the 18th of August, 1898, appointing as "Empire Day" the school day preceding the holiday commemorating the anniversary of the birthday of Queen Victoria, under whose reign the Empire so widely and harmoniously developed. This was the first institution of Empire Day by any Education Department.

Hamilton, Ontario, addressed a committee of the local school board on the subject of a patriotic dentario, addressed a committee of the local school boards adopted her suggestion that patriotic day. Subsequently this and other school boards adopted her suggestion that the Educate. Subsequently this and other school boards adopted her suggestion that the Education Department of Ontario be asked to set apart one day each year as a patriotic day. Subsequently this and other school boards are patriotic day. Subsequently this and other school be asked to set apart one day each year as a patriotic day. The Hon. G. W. Ross, then Minister of Education, arranged, after Bronder and the Deriver and the D correspondence with the Superintendent in Nova Scotia, then president of the Dominion Education of the Superintendent in Nova Scotia, then D. E. A. to recommend that Educational Association, that it should be proposed to the D. E. A. to recommend that a day should be collected by the day before Victoria Day, the 24th of May, which is a a day should be fixed for the day before Victoria Day, the 24th of May, which is a that utom, and be fixed for the day before Victoria Day. tatutory boliday in all Canadian schools, and that it should be called "Empire Day." The President of August, 1898, in the Academy The pry holiday in all Canadian schools, and that it should be caned in the function of August, 1898, in the Academy of Music Ir in his opening address, on the 2nd of August, 1898, in the Academy of Music Ir in his opening address, and read the absent Hon. Minister's plea. The convertient, presented the proposal, and read the absent Hon. Minister's plea. The convention accordingly before its close, on the 5th August, recommended "Empire Day" to the convention accordingly before its close, on the 5th August, recommended "Empire average of the Dominion. It was promptly adopted Day" to the several education departments of the following instructions to the public by that of Nova Scotia as indicated above, with the following instructions to the public

(b). The object of the day is the development of the Empire idea with power, by a more dramatic and impressive demonstration than would be possible in the routine method of teaching necessarily characteristic of the most of the work

of the school. No set method is prescribed. Local orators may be utilized in short and appropriate addresses to the pupils and their parents. Teachers and pupils should take part in as effective and in as varied manners as possible from year to year. As a rule it is preferable to have it an exercise open to the public of the locality in the afternoon, the forenoon being devoted to phases best treated in the school room. It is one of the days when the school flag should be flying. The British Red Ensign (having the Union Jack in its upper quarter) is recommended as the appropriate flag. The "Union" alone may be flown as a school flag, but it has also both a special naval and military significance.

- (c) The exercises should not be directed to develop boastfulness in the greatness of the Empire. They should be a study of the causes why it became great, and how it may continue to be great; of the history of the rise, growth and alliance of its different peoples, of the evolution of the elastic system of self-government, and of the development of that spirit of Empire unity which is a new thing in history as the Empire's extent is in geography. And most important of all the excercises should be an inspiration to stimulate all to seek how they may further reinforce the good tendencies and bind the distant members of the Empire more closely together in the bonds of reciprocal helpfulness as well as of sentimental love.
- (d) As in the case of Arbor Day, all worthy teachers are e^{x} pected to file a report on the exercises of the day, no matter how brief, with the inspector of his or her division.

RURAL SCHOOL LIBRARIES OF NOVA SCOTIA.

Section 77 (e) of "The Education Act," Chapter 52, R. S., 1900, authorized the ratepayers to vote funds for "books for the school libraries" at any regularly called school meeting.

Prior to 1903 the Council of Public Instruction published (in the "Manual of School Law, 1901," and in the "JOURNAL OF EDUCA-TION," from year to year) the following regulations which still continue to remain in force:

172. In the Revised Statutes of 1900, Chapter 52, Section 77 (e), authority is given for the raising of funds for books for the school library by assessment. Until the Council has prepared and published a list of books for such libraries, trustees purchasing such books with school funds should first send a list of proposed books, their publishers, sizes and prices if possible, to the Secretary of the Council for its approval. thoroughly mastered before the other portions of the course; so that additional reading may profer to the course is that additional reading the course is the course is the course is the course of the course of the course is the course of the course of the course is the course of th may profitably be undertaken by the pupils. Such readings are known as "supple-but only on the carbon details (a) that the prescribed Readers have first been thoroughly astered, and (b) that he "supplementary" Readers authorized be the property of Reader.

Regulations 51, 52, 53, 69 and 70, referring to the equipment Superior" Schools, High Schools and County Academies, Make the school library an essential part of the legal equipment of the the school library bight Inspectors can have enforced by the of these public schools which Inspectors can have enforced by the withhest public schools which under the conditions specified. Withholding of public funds under the conditions specified.

Chapter 24 of the Statutes of 1903, is as follows:----

AN ACT FOR THE ENCOURAGEMENT OF RURAL SCHOOL LIBRARIES.

 $B_{\mbox{\scriptsize e}}$ it enacted by the Governor, Council, and Assembly, as follows:

The asury, to any teacher acting as the librarian of the school library of the school, the school and library of the schoo testion, the sum of five or ten dollars, according as the equipment of the school, the value and is sum of five or ten dollars, according the school and library, value, the sum of five or ten dollars, according as the equal the school and library, at the and use of the library, and the general management of the smaller or larger attain the standards prescribed by the regulations of the Council for the smaller or larger brary grant respectively.

any ². Nothing in this Act shall apply to the schools in any incorporated town, or in teacher drawing a superior school grant, or a class A teacher drawing grant. eacher drawing an Agricultural or Manual Training grant.

Under the authority of this Act the Council of Public Instruction has made the following:--

REGULATIONS FOR RURAL SCHOOL LIBRARIES.

(1)

THE GRANTS.

ed the Rural School Library grants, authorized by statute (quester upon), and in the stimulate the formation and use of libraries in school sections other than those any which the formation and Manual Training grants are drawn—which grants are drawn—which grants The Rural School Library grants, authorized by statute (quoted above) are intendto staural School Library grants and use of libraries in school activity of the staural School Library grants are drawn—which grants are already are already are structural and Manual Training grants are drawn—which grants are already are structural and manual training grants are drawn—which grants are already are structural and manual training grants are drawn—which grants are already are structural and manual training grants are drawn—which grants are drawn—which grants are already are structural and manual training grants are drawn—which grants are already are structural and manual training grants are drawn—which grants are already are structural and manual training grants are drawn—which grants are already are structural and manual training grants are drawn—which grants are drawn—which grants are drawn—which grants are drawn—which grants are already are structural and manual training grants are drawn—which grants are already are structural are drawn—which grants are already are structural and manual training grants are drawn—which grawn are drawn—which grants are drawn—which grants a Which Class "A" Agricultural and Manual Training grants are already conditioned to some extent by the existence of appropriate libraries.

fity dollars, and at least 150 issues of books must have been made during the year to readers.

one hundred dollar grant the books belonging to the library must be worth at least year.

Regulations (2) to (9) will be found in the April Journal of 1903, or in the October Journal of 1903 where a provisional list be publicly proved is also published. A revision of this list may publicly in the public p Regulations (2) to (9) will be found in the April Journal of be published within another year, if there appears to be need of it

HOW TO GET THE LIBRARY GRANT.

The teacher should give notice of the intention to compete for the larger or smaller Library grant when intimating the opening of the school to the inspector. Where no Where here here the school to the inspector. library has yet been organized, such intimation should be given as early as possible; but the equipment should be complete at the but the equipment should be complete at the end of January, and the facts fully stated and certified on the blank half sheet of the main of January, and the facts fully stated and certified on the blank half sheet of the semi-annual return of the school in February. An informal statement of the connectition for the school in the made An informal statement of the competition for the smaller or larger grant should be made by every teacher competing as a notification to the smaller or larger grant should be noted Without such notice by every teacher competing, as a notification to the Inspector. Without such endorsed on the semi-annual return no claim for the grant can be maintained.

The Library grants shall be paid with, and in addition to, the regular Provincial Aid at the end of the school year, provided the regulations and the instructions issued from time to time from the Education Department to from time to time from the Education Department have been fully complied with provided the special Library Return and the special Library Returns and the spec provided the special Library Return accurately made out has been sent to the Inspector with the regular annual returns of the set of tor with the regular annual returns of the school; and provided the Inspector whose special duty it shall be to examine and much has been sent to the inspector whose special duty it shall be to examine and vouch for the correctness of the returns and the deserving character of each school library in his jurisdiction, endorses the Library, and other returns of the school with his approximation of the correctness of the returns and the school with his approximation. rary, and other returns of the school with his approval and recommendation.

PROVISIONAL CATALOGUE.

The catalogue of October, 1903, is merely provisional. It contains the titles of books suitable for pupils, parents, teachers and students. The Superintendent etc. Education will be glad to receive suggestions from teachers, the superintendent etc. Education will be glad to receive suggestions from teachers, students, publishers, etc. as to additional books to be put on the list or will. as to additional books to be put on the list as well as to the withdrawing of those super seded by better publication; so that a more count of the withdrawing of those super seded by better publication; so that a more complete and better classified catalogue may be issued

No Supplementary Readers---class M--are at present recommended. Regulation 173 will cover any possible demand for them at present recommended. lation 173 will cover any possible demand for them, as Regulation 172 will cover any demand for other books not on this catalogue

Books recommended in the course of study, and to teachers in regulation for in the JOURNAL OF EDUCATION specially are also to be and in the JOURNAL OF EDUCATION specially, are also to be considered as authorized for school libraries. school libraries.

MARCH ANNUAL SCHOOL MEETING.

In some fishing districts it may be found desirable to take advantage of that provision of the law under which the Council of Public Instruction may fix for a jung-section an earlier date for its annual school meeting than the last Monday of held If any such cases exist, it is very desirable that these early are a provisions be held on the same day. If any such cases exist, it is very desirable that these early annual meetings be held on the same day. The first Monday in March is that these early annual meetings be really annual meetings be on the same day. The first Monday in March is selected as likely to be the most ger erally convenient date.

Sections feeling the necessity of an early date for the annual school meeting in their trustees, make an annual school meeting in the school meeting in the school meeting in the school meeting in the school school meeting in the school school meeting in the school meeting in the school meeting in the school s should, through their trustees, make an application to the Council through their fall spector before the end of January, so that the spector before the end of January, so that the Inspector may be able to transmit all such applications with recommendations or comments them as the Council of the such applications with recommendations or comments thereon, to the Council of taken lic Instruction on the first day of February manners thereon, to the Council of taken lic Instruction on the first day of February, when it is probable action can be taken and due notice given in time for the holding of the and due notice given in time for the holding of the meetings on the first Monday of March.

The suggestion, it is hoped, will enable cases of this kind to be arranged easily without the delay otherwise necessary. and without the delay otherwise necessary.

The following list of school sections includes those given in No. 42 of the Comments Regulations of the Council of Public Instructions given in No. 42 of the Comments and Regulations of the Council of Public Instruction, "Manual of School Law Nete Scotia, 1901," pages 68 to 71, whose regular annual meetings were changed by the Council on the 11th September, 1903, from the last March to the first Monday Council on the 11th September, 1903, from the last Monday in March to the first Monday in March to the first Monday.

(10)

(11)

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COMPLETE LIST OF SECTIONS.

Whose regular annual meetings have been fixed by the C. P. I., to be held on the firs worday in March of each year.

INSPECTORIAL DIVISION, NO. J.

HALIFAX, WEST.

HALIFAX, EAST.

b		HALIFAA, BAGL
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	 Hubbard's Cove. Head Harbour. Glen Margaret. Indian Harbor. West Dover. Sambro. Ketch Harbor. Portuguese. Seaforth. Grand Desert. Head Chezzetcook. Hope Ridge. Lr. E. Chezzetcook. Bayer's. East Petpeswick. Steven's. Steven's. Sheasant Point. West Jeddore. West Jeddore. 	No.IOyster Pd., Jeddore.No.2Lr. East Jeddore.No.3Upper Lakeville.No.4Lower Lakeville.No.5Clam Harbor.No.6Owl's Head.No.7South Ship Harbor.No.9Newcombe's Brook.No.11Murphy's Cove.No.12Pleasant Harbor.No.13Tangier.No.16Gerrard's Island.No.17Spry Harbor.No.18Spry Bay (Henley).No.19Spry Bay (Leslie).No.32Quoddy.No.33Harrigan Cove.

INSPECTORIAL DIVISION, NO. 2.

INSPECTORIAL D	IVISION, IVOT
LUNENBURG AND NEW DUBLIN.	
WNENBUDG STOLEN	No. 61Eastern Point.
"BURG AND NEW DUBLIN.	Big Lat.
No.	former III I
	No. 65 Conquerall Bank.
	No. 66Pleasantville.
	No. 67Fralig's.
S ^o , Garden Lots.	D. I
NO 5. DL. Dealer	
	No. 69
	No. 70West Dublin.
No. 7 Heckman's Island.	No. 72New Cumberland.
South.	
90 0	No. 73 Mount Pleasant.
So to The Couth	No. 74Petite Riviere.
No. 10 Feltzen South.	No. 75Broad Cove.
No. 11. Upper Rose Bay.	No. 76 Cherry Hill.
Lower Rose Day	
No. 13 Upper Kingsburg.	
	No. 78Crousetown.
	No. 100 East Dublin.
15Ritcey's Cove. 16Lower La Have.	No. 101
Lower La flave	
Dork's Creek	No. 103 Corkum's Island.
	No. 105Vogler's Cove, E.
	CHESTER.
No. 20. Summerside.	
No Spyder's.	
	No. 2 East Chester.
	No. 3 Marriott's Cove.
	No. 15
No dor'd LOVE.	No. 151 Gold River It.
M-hone Bay	No. 152 Gold River S.
by file O-l-land	No. 16 Martin's Point.
10, 28, Lin Point	No. 17 Indian Point.
	No. 18Blandford.
No. 29 Indian Font. No. 57 Martin's River.	No. 10 Dianciotar
	No. 19Bayswater.
No. 58	No. 20 Fox Point.
60Clearland.	No. 23North West Cove.
6	
U	

No.	24Mill Cove.	No.	5 Hunt's Point.
No.	28Pine Plain.	No.	6. Western Head.
No.	29Deep Cove.	No.	- Moose Harbor.
	•	No.	Beach Meadows.
	SOUTH QUEENS.	No.	12. Eagle Head.
		No.	Wost Borlin
No.	ISt. Catherine River.	No.	15. East Port Medwey
No.	2Port Joli.	No.	18Gull Island.
No.	3Cent'l Port Mouton.	No.	19 White Point.
No.	4Port Mouton, N.	1	

INSPECTORIAL DIVISION, No. 3.

SHELBURNE.

No.	SHELBURNE.	No.	19 Up. Wood's Harb ^{or.} 20 Forbes Point.
	3 East Sable.	No.	21Charlesville.
No.	5West Sable.		
No.	6Louis Head.		ARGYLE.
No.	7Little Harbor.		
No.	8	No.	1 Lower East Pubnico.
No.	9Rockland.	No.	2
-No.	IIOsborne.	No.	3 East Pubnico.
No.	15East Green Harbor.	No.	3 East Publico. 5 Up. West Publico.
No.	16West Green Harbor.	No.	
No.	19 Upper West Jordan.	No.	7Lr. W. Pubnico.
No.	20 West Jordan Ferry.	No.	8Argyle Sound.
No.	22 Lower Sand Point.	No.	TI Control Ally .
No.	23 Sand Point.	No.	
No.	30Port Saxon.	No.	15 Lower Eel Brook.
No.	32Black Point.	No.	16Eel Brook.
No.	33Roseway.	No.	17Abram's River.
No.	35 Churchover.	No.	rs Morrig Island.
No.	36Birchtown.	No.	19Surrette's Island.
No.	37 · · · · · McNutt's Island.	No.	20 Shugo Politiki
		No.	21 Amirault's Hill.
	BARRINGTON.	No.	22 Hubbard's Point
		No.	25North Belleville
No.	3Port Clyde.	No.	27South Belleville.

	No. No. No. No,		No. No. No.	28Bell Neck. 30West Quina 31East Quina
--	--------------------------	--	-------------------	--

INSPECTORIAL DIVISION, NO. 4.

DIGBY.

No.

No. No. No.

14.....Port Gilbert.41.....East Ferry.42.....Tiverton.43.....Central Grove.

CLARE. 31.....Cape St. Mary. No. ANNAPOLIS WEST. 3..... Parker's Cove. . No.

INSPECTORIAL DIVISION, No. 6.

ANTIGONISH.

GUYSBORO.

No. No. No. No. No.	32Harbor Bouchie. 33E. Harbor Bouchie. 70Auld's Cove. 76Frankville.	No. No.	2Riverside. 10Roachvale. 13Sandy Cove. 14Helfwey Cove.
No.	77Cape Jack.	No.	14Halfway Cove.

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37			
No. No.	16Queensport.	I N.	Contractor Discontractor
No.	17	No. No.	62 Larry's River, W.
No.	18Black Point.	No.	63 Larry's River, E.
N.	21 Up. White Head.		64 Gammon Point.
No.	²² Lr. White Head.	No.	65Fisherman's Harbor.
No.	25 Withly Molford	1	
No.	²⁵		ST. MARY'S.
No.	26 Sand Point.	NT-	
No.	31Port Shoreham.	No.	15Ecum Secum.
No.	32St. Francis Harbor.	No.	16Marie Joseph.
No.	39Steep Creek.	No.	17 Liscomb Mills.
No.	40Oyster Ponds.	No.	18Middle Liscomb.
10	44 Lower New Harbor.	No.	19 Lower Liscomb.
No	47Seal Harbor.	No.	20 Wine Harbor.
No.	51Coddle's Harbor.	No.	21
No.	53 Dover.	No.	3 Sonora
40	55Yankee Cove.	No.	²⁷ Port Bickerton.
No	58 Port Felix, E.	No.	20 Chargorgin
No	59		29 West Liceansh
No	ooCole Harbor.	No.	30Spanish Ship Bay.
	61Charlo's Cove.	,	

INSPECTORIAL DIVISION, No. 7.

RICHMOND. No. 1 Acadiaville. No. 2 Port Royal. No. 3 Janvrin's Island. No. 4 Arichat. No. 5 Poulamond. No. 6	No.44Salmon River.No.45Soldier's Cove.No.46Hay Cove.No.47Hay Cove.No.48Peter's Mountain.No.50Peter's Mountain.No.52Stirling.No.55Stirling.No.56Cape Breton.No.57Fourche.No.59Intervale.No.61Archeveque.No.62Grand River.No.63Brymer.No.65Point Micheau.No.65Point Micheau.No.65Point Micheau.No.66I'Ardoise Highlands.No.68I'Ardoise.No.69Rockdale.No.71Grand Greve.SOUTH INVERNESS.No.3Troy.No.61Rhodena.
--	--

INSPECTORIAL DIVISION, NO. 8

No. No.	NORTH INVERNESS.		
No.	¹ Pleasant Bay. 9Plateau.		

	(No.	10	LeFort.
	No.	II	LeBlanc.
•	No.	12	. LeBlanc. . Ruisseau-du-lac.

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VICTORIA.

No.	18	Upper Washabuck.
No.	21	Gillis Point.
No.		Estmere.
No.		. Indian Brook.
No.		South Ingonish.
No.	38	Clyburn Brook.

No. No. No. No. No. No.	39West Ingonish.41Neil's Harbor.42North Harbor.43Middle Ridge.44Big Intervale.47Sugar Loaf.47Tarbat
No.	49Tarbot.

INSPECTORIAL DIVISION, No. 11.

CAPE BRETON.

No.	20South Head.
No.	22Milton.
No.	23Round Island.
No.	25 Horn's Road.
No.	30Caribou Marsh.
No.	32 Marion Bridge.
No.	39Edwardsville.
No.	42Ball's Creek.
No.	65Catalone.
No.	66Bateston.
No.	67Clark's Road.
No.	68Mainadieu.
No.	70Baleine.
No.	71Little Lorraine.
No.	72Big Lorraine.
No.	74West Louisburg.

	· 1
No.	77 Trout Brook.
No.	78Big Ridge.
No.	79 French Road.
No.	80View.
No.	81Gabarus Bay.
No.	82Gabarus.
No.	83Gull Cove.
No.	84 Gabarus Lake.
No.	85Belfry.
No.	96 Canao Take
No.	87 Upper Grand Mira.
No.	88 Grand Mira
No.	80 Victoria Bridge.
No.	90 Grand Mira, N.
No.	91Caledonia.
No.	97Big Pond.
No.	98Irish Vale.

(To ve handed promptly on its receipt by the Secretary of every School Board to each Teacher employed within the School Section.)

LOCAL "NATURE " OBSERVATIONS.

(To be sent in to the Inspector with the Returns in February and July.)

This sheet is provided for the purpose of aiding teachers to interest their pupils in observing the times of the regular procession of natural phenomena each season. First, it may have may help the teacher in doing some of the "Nature" lesson work of the Course of Study second: the teacher in doing some of the information for the locality and province. Two secondly, it may aid in procuring valuable information for the locality and province. Two conjugations of the second seco copies are provided for each teacher who wishes to conduct such observations, one to be preserved provided for each teacher who wishes to conduct such observations, one to be preserved as the property of the section for reference from year to year; the other to be sent: sent in with the Return to the Inspector, who will transmit it to the Superintendent for examination of the Superintendent for examination and compliation.

What is desired is to have recorded in these forms, the dates of the first leafing, Nowering and fruiting of plants and trees; tCe first appearance in the locality of birds mi-grating north in spring or south in autumn, etc. While the objects specified here are given so as the spring or south in be made between the different sections of the Progiven so as to enable comparison to be made between the different sections of the Pro-vince is as to enable comparison to be made between the different sections of the Proline, it is very desirable that other local phenomena of a similar kind be recorded. Every locality its own; and the more locality has a flora, fauna, climate, etc., are those which will be most valuable from a common trees, shrubs, plants, crops, etc., are those which will be most valuable from a local noise, shrubs, plants, crops, etc., are those of seasons. control trees, shrubs, plants, crops, etc., are the strict of a series of seasons. Coal point of view in comparing the characteristics of a series of seasons.

Teachers will find it one of the most convenient means for the stimulation of pupils in observing all natural phenomena when going to and from the school, and some pupils radiate as far as two miles from the school room. The "nature study" under these con-ditions ditions would thus be mainly undertaken at the most convenient time, without encroach-ing on would thus be mainly undertaken at the most convenient time, without encroaching on school time; while on the other hand it will tend to break up the monotony of school time; while on the other hand it will tend to break up the monotony of school time; while on the other hand it will tend to be one of the most value. school time; while on the other name is the transferred by the one of the most valu-able fravel, fill an idle and wearisome hour with interest, and be one of the most valu-able for the eves of a whole school daily passing over a able forms of educational discipline. The eyes of a whole school daily passing over a whole school daily passing over a whole school educational discipline. Whole school section will let very little escape notice, especially if the first observer of each about the first observer of it for the each annually recurring phenomenon receives credit as the first observer of it for the year. The observations will be accurate, as the facts must be demonstrated by the Jear. m_{ost} The observations will be accurate, as the final specimens to the school when $p_{ossible}$ possible or necessary.

To all observers the following most important, most essential principles of recording are emphasized: Better no date, NO RECORD, than a WRONG ONE or a DOUBTFUL one. Sports and the state of the st Sports out of season due to very local conditions not common to at least a small field, should out of season due to very local conditions. The date to be recorded for the purshould not be recorded except parenthetically. The date to be recorded for the purposes of the recorded except parenthetically. poses of compilation with those of other localities should be the *first* of the *many* of its kind following that the first of the many of its find following the those of other localities and the should be the first of the many of its the first of the many of its should be the first of the many of its should be the first of the many of its should be the first of the many of its should be the first of the many of the first of the many of its should be the first of the many of its should be the first of the many of of the tind following immediately after it. For instance, a butterfly emerging from its chrys-alia in a substantiately after it. alls in a sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern window in January would not be an indication of the sheltered cranny by a southern would not be an indication of the sheltered cranny by a southern would not be an indication of t of the sheltered cranny by a southern window in only in which the chrysalis was sheltered climate, but of the peculiarly heated nook in which the chrysalis was sheltered climate, but of the semi-artificial, warm shelter, give the date required. cheltered; nor would a flower in a semi-artificial, warm shelter, give the date required. When the nor would a flower in a semi-artificial, warm shelter, give the date required. When these sports out of season occur, they might also be recorded, but within a par-enthesis enthesis to indicate the peculiarity of some of the conditions affecting their early ap-Pearance.

These schedules should be sent in to the Inspector with the school returns in July and These schedules should be sent in to the Inspect. And Spring (January to June) and February, containing the observations made during the Spring (January to June) the Fall (June to December respectively.) The second second

The new register has a page for a duplicate of such records.

Remember to fill in carefully and distinctly the date, locality, and other blanks at the head of the schedule on the next page; for if either the date or the locality or the name of the schedule on the next page; because the whole paper is worthless and name of the schedule on the next page; for it that the whole paper is worthless and cannot be responsible compiler should be omitted the whole paper is worthless and cannot be bound up for preservation in the volume of The Phenological Observations.

By the aid of the table given at the top of pages 3 and 4, the date, such as the 24th of By the aid of the table given at the top of pages 5 and 4, the date, such as and 4, "the lay for instance, can be readily and accurately converted into the annual date of the 14th days of the month given to the annual date of the 144 for instance, can be readily and accurately convented into the annual date of the 144 h day of the year," by adding the day of the month given to the annual date of the 144 h day of the year," by adding the day of the scale, thus: $24 \div 120 - 144$. The annual hast day of the year," by adding the day of the month given to the annual date day of the preceding month (April in this case), thus: $24 \div 120 - 144$. The annual date can be be preceding month (April in this case), thus the only kind of dating which can be conveniently date can be briefly recorded, and it is the only kind of dating which can be conveniently averaged a briefly recorded, and it is the only kind of dating which can be conveniently averaged a briefly recorded. averaged for phenological studies. When the compiler is quite certain that he or she can make the phenological studies. an make the conversion without error, the day of the year instead of the day of the month will be preferred in recording the dates.

PHENOLOGICAL OBSERVATIONS, CANADA. (1909 Schedule.)

Pro Loc	(For the months July to December, 19 ; or the months Ja vince	nuary to	June 19
vat coa Slio Ger Pro Doe or s Any	The estimated length and breadth of the locality within which ions were madeXmiles. Estimated stmiles. Estimated altitude above the sea level. pe or general exposure of the region eral character of the soil and surface portion's forest and its characterand if so treamOr is it all substantially highlands y other peculiarity tending to affect vegetation?	h the foll distance	owing or the less from the less feet.
1ne	most central Post Office of the locality or region	•••••	
NAN	ME AND ADDRESS OF THE TEACHER OR OTHER COMPILER OF THE OBSERVATIONS RESPONSIBLE FOR THEIR ACCURACY	When First Seen	When Blooming Common
Ċ	WILD PLANTS, ETCNOMENCLATURE as in "Spotton" or "Gray's Manual").		
1. 2. 3. 4. 5. 6. 7. 8. 9.0. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27.	 Alder (Alnus incana), catkins shedding pollen		

ja Ja

PHENOLOGICAL OBSERVATIONS-(Continued).

Day of year corresponding to the last day of each month. Jan. 31 April 120 July 212 Oct. 304 Feb. 59 May 151 Aug. 243 Nov. 334 March 90 June 181 Sept. 273 Dec. 365 r LEAP years increase each number except that for January by 1	When First Seen	When Becom-
⁴ geon Berny (Gamma Canadensis), fruit ripe		
	1	
Scarlet fruited Thorn (Crategus oxyatanta), "		
Blue Flag (Iris versicolor), flowering		
Yellow Pond Lily (Nuphar advena). flowering		
Raspherry (Rubus strigosus), flowering		
function of the second se		
ellow Devel (D) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C		
59 Blocklass (D. L. Sillense) flowering		
* Uchos III		
Common Wild Rose (Rosa lucida), "		
Fall Dandelion (Leontodon autumnale), "		
Butter-and-Eggs (Linaria vulgaris), " Expandinu da functional da functio		
- sating leaves in spring made frees up for 8		
tree, (b) leafing trees generally.		
Bod a (CULTIVATED PLANTS, ETC.)	ļ	
flowering (D) flowering		
Black Currant (Ribes nigrum), flowering		
Cherman (Ribes ing. and fruit ripe		
Cherry (Prunus Cerasus), flowering		
Plum (n)		
Apple (Prunus domestica), howering Lilae (Service Malus), flowering		
Lilac (Syringa vulgaris), flowering.		
White Clover (Trifolium repens), flowering		
Red Clover (Trifolium repens), nowering Timothy (Du superstance), "		
Timothy (Phleum pratense), "		
Potato (Solanum tuberostun),		
		•
Plowing (FARMING OF DIATIONS, 200		
Sowing		
Planting of Potatoes begun		

PHENOLOGICAL OBSERVATIONS-(Continued).	
 69. Shearing of Sheep 70. Hay Cutting 71. Grain Cutting 72. Potato Digging 		,
(METEOROLOGICAL PHENOMENA.)	(a)	(b)
 73. Opening of (a) Rivers, (b) Lakes without currents		
[Day of year corresponding to the last day of each month.] Jan. 31. April 120. July 212. Oct. 304. Feb. 49. May 151. Aug. 243. Nov. 334. March 90. June 181. Sept. 273. Dec. 365. (For LEAP years increase each number except that for January by 1	Going North or coming in Spring.	Going Sonth or leaving in Fall.
(MIGRATION OF BIRDS, ETC.) 81. Wild Duck migrating		·
 99. Piping of Frogs 90. Appearance of Snakes. 		

101. Senecio Jacobaea (St. James Ragwort); Is it found within the school sect of If so, to what extent? If so, to what extent? etc.

102. The Brown Tail Moth, etc.

REPORTS ON PHENOLOGICAL OBSERVATIONS.

(Year Ended June 30th, 1909.)

NOVA SCOTIA

The following extracts from the reports of the specialists to whom the observation schedules sent in were referred for minute examination, study, compilation, criticism and suggestion, will be of interval of the took part in this work and to all who of interest to all teachers who took part in this work and to all who propose to continue in the future, as well as to others interested the development of the practical study of the conditions and resources of our country. The study of these notes, it is hoped, may do much to prevent the introduction of errors into future work and the schedules and the Work and to suggest improvement in both the schedules and the Methods of observation.

The Province is divided into its main climatic slopes or regions not always coterminous with the boundaries of counties. Slopes, especially those to the coast, are sub-divided into belts, such a sub-divided into belts, and (c) the high such as (a) the coast belt, (b) the low inland belt, and (c) the high inland belt, as below:--

No.

Regions or Slopes.

Belts.

I. Yarmouth and Digby Counties II. Shelburne, Queens & Lunen'g Co's Annapolis and Kings Counties	" (a) ' lev	 Coast, (b) North 7 (d) Cornwallis V	nlands, (e) High Inlands. Mt., (c) Annapolis Val- Valley, (e) South Mt.
IV. Hants and Colchester Counties, V. Halifax and Guysboro Counties, VI. A Halifax and Guysboro Counties, VI. 2 Cobeouid Store (to the south),	(a) (Coast, (b) Low I	nlands, (c) High Inlands.
VI. B Cobequid Slope (to the south),	66 66	••	**
VIII North'right Stars (to the N'h)	с. с.	•• •• ••	**
 Richmond & Cape Breton Co's Bras d'Or Slope (to the southeast) Inverness Slope (to Gulf, N. W.), 	••		

These observations are especially valuable as furnishing a schools for a portion of the Nature Study work in the public Schools of the Province. It is, no doubt, starting very many young public pupils of the Province. It is, no doubt, second by many make them on the beginning of an observant course which will make them specially useful citizens; while it substitutes an enjoyable occupation of the road to and for otherwise monotonous hours spent on the road to and from school. The work has also some scientific value, so that the sol the schedules are bound up in annual volumes to be preserved in the schedules are bound up in annual volumes to be preserved in the schedules are bound up in annual volumes to be reachives of the Province for future students of our climate.

CRITICAL NOTES BY THE STAFF OF PHENOLOGISTS.

REGION I.-YARMOUTH AND DIGBY COUNTIES.

A. W. Horner, Principal, Seminary School, Yarmouth.

Hepatica triloba is reported from one section, but the dates given leave the i^{in} pression that the observer was mistaken in the plant.

Miss Wetmore of Cedar Lake sent me a specimen of Andromeda polifolia and her schedule has some very interesting notes; e. g. "A flock of birds, about 100 in number, consisting of bobolinks, warblers source and the sent θ , sent θ , consisting of bobolinks, warblers, song sparrows and other varieties, was seen, Sept en when on my way to school. Every bush scored align with the second align with the when on my way to school. Every bush seemed alive with them. I never have seen a more splendid sight." a more splendid sight."

Bobolinks were very rarely seen in Yarmouth County previous to 1907, p_{0}^{ϕ} are nesting here. they are nesting here.

A boy, eight years old, brought me a butter up with the petal of a $Forget_me_n$ ing on it. The most of the schedules show that the f growing on it. The most of the schedules show that the few teachers who are making the observations, are doing it very accurately. the observations, are doing it very accurately.

Thirty three schedules were received from this region; fifteen from the Cousti een from the Low Inland; and five from the II: is region; fifteen from the thirteen from the Low Inland; and five from the High Inland.

Too Early.				Too Lat	.e.
Schedule No. of Plant or Bird.	When First Seen	Schedule No. of Plant or Bird.	When First Seen	Schedule No. of Plant or Bird.	When First Seen
1 4 6 10 19 20 23 28 35 36 38 39	$\begin{array}{c} 88\\ 106\\ 112\\ 91, 113\\ 110\\ 120\\ 139\\ 138\\ 125, 146\\ 144, 158, 159\\ 162\\ 162 \end{array}$	40 86 87 90 90 92 98	162 100 116 106 113 112,113 88	6 16 23 88 90	137, 142 147 178, 175 168 168 178 171, 173 198 268

The following are errors in the dates given.

REGION IL-SHELBURNE COUNTY.

E. Chesley Allen, The Academy, Yarmouth.

Twenty-one observation sheets were received from Shelburne County, comprising seventeen from the coast, two from low inlands, and two from high inlands.

The sheets contained a grand total of 1979 observations, of which 1473 were found e accurate within reasonable limits making to be accurate within reasonable limits. making a percentage of reasonable accuracy of nearly 75. This percentage of accuracy ranged, in individual sheets from 56 F. 93, the latter being that of the schedule sent in from Mithue Obio by Elizabeth as 93, the latter being that of the schedule sent in from Middle Ohio, by Elizabeth was Another sheet worthy of highest praise both for fullness and accuracy, was n Upper Ohio by Elinor A. Kayanach sent from Upper Ohio by Elinor A. Kavanagh.

Every teacher used the "day of year date", and apparent errors in transferring to this method were very rare.

Many dates for flowers becoming common are only from two to four days later when reported as first seen a burght in a construction of the standard than when reported as first seen. 1 would like to have some ideas as to what standard

^d abundance should be considered as "common" for flowers, etc., though one can many difficulties in the way of fixing such a standard. One observer evidently gave dates when alder and maple flowers showed them-Une observer evidently gave dates when and the without waiting for them to shed their pollen. We are all weary of the *Rhodora* and *Kalmia* confusion, but that such confusion $\mathbf{W} = \mathbf{X} = \mathbf{W} + \mathbf{W} + \mathbf{W}$ Some observers are taking "gold thread" for "star flower". Sanguinaria Canadensis was reported as first seen at Doctor's Cove, May 7, and mon Month to believe this to be another case of mis-Sanguinaria Canadensis was reported as first seen at Doctor's Cove, may , and the sen identity 12 At present I am inclined to believe this to be another case of mis-May 12 At present I am inclined to believe only of the contrary. the owner to keep them housed. I trust that the teacher who observed shearing of sheep early in March persuaded w_{Mar} the to say that Juncos remained all winter. Another observer had potatoes planted before ploughing begun, but had the courthat are too early for arrivals from the south. Doubtless winter residents were observed. Wellow-crowned, or myrtle warblers also frequently remain over winter feeding on the wax-coated bay-berries. Flickers, too, may occasionally be seen during the winter migration from the south, may not be errors in observation. With So that early dates for these birds, while they do not set in station from the south, may not be errors in observation. December. D_{ucks} and geese are reported as going south or leaving in the fall near the last o mber, The common "black duck" (Anas obscura) and several other ducks are "midents in Nova Scotia. I believe that in the southern part some geese remain over The common "black duck" (Anas obscura) and several other ducks are winter that in Name "black duck" (Anas obscura) and several other back are winter This suggests what may be another source of error. I suspect that if birds are seen south, they are put down as *migrating* south. The chances are that this is true down seen migrating, but small birds, since they migrate almost entirely by night, are seen migrating, but may be heard almost any quiet night in the fall. The only way to find the fall migration dates for birds, is to keep a record of the seen each day, the last date seen being the close of the migration for each species. Nova Scotia. One was taken at Comeau's Hill. Yarmouth County, in the fall of 1908. The second column is still being filled in for snakes. Fernary survey as they do leave in the fall, if "leaving" may mean disappearing. The second column is still being filled in for snakes. Perhaps this is not altogether as they do not altogether if "leaving" may mean disappearing. Large numbers of additional observations were given by Jennie A. Doane, Bessie utberland, Kathryn Thorburn and Elinor A. Kavanagh. REGION II.-QUEENS COUNTY. Miss M. C. Hewitt.-Science Teacher, Academy, Lunenburg.

This year only nineteen schedules were received from Queens County, six from the and thirteen from High Inlands.

the inprovements which can be made by those who send in schedules which in other are excellent.

(1). Do not be too modest to give your name and address. None of the schedule from your county are such that any teacher need be ashamed of them.

(2). Give the name and number of the school section. Often it is very inconfet ient for the compiler to ascertain these when omitted.

(3). In reporting additional observations, give the scientific name in preference one local name, such as "Bird's Eve Primeres" to some local name, such as "Bird's Eye Primrose."

(4). Look for the White-throated Sparrow, the King Bird and the Gold $Fin^{(d)}$ see birds must be fairly common in your sections These birds must be fairly common in your sections.

As the Summer School of Science will meet at Liverpool, this year, the teacher my of Queens County will have an excellent opportunity to settle any doubts they are interested in regard to the flora and fauna of their district and to the flora and fauna of their district and the settle any doubts interest. have in regard to the *flora* and *fauna* of their districts and, by meeting others interest in Nature Work, to add to their own zeel and interest, by meeting others interest. in Nature Work, to add to their own zeal and interest, and thus make the work i observing an ever-increasing pleasure.

REGION II.-LUNENBURG COUNTY

B. McKittrick, B. A., Principal Lunenburg Academy.

Forty-two "Local Nature" Observation sheets were received from the teachers of enburg County. Of these fourteen were from County in the teachers of the second from the second Lunenburg County. Of these fourteen were from Coast (a) and twenty-eight from the head twenty-eight from the teacher t

The greater number of these schedules were very carefully and accurately new protection of the second states and accurately and accurately in the second states and accurate and accurate and accurate and accurate and accurate and accurate and accu and neatly recorded. It is pleasing to note that each year one finds fewer errors fuller reports. All now use the year day in reporting the fuller reports. fuller reports. All now use the year day in reporting, except for thunderstorms. future we hope to have every observation recorded in the future we hope to have every observation recorded in the year day.

The only plants not reported are;

Blood-root (Sanguinaria Canadensis). 5.

6. Adder's Tongue Lily (Erythronium Americanum).

Senecio Jacobaea has not yet been found in this County.

REGION III.---KINGS AND ANNAPOLIS COUNTIES.

Ernest Robinson. B. A., Principal Horton Academy.

The reports from this region were up to the average of previous year, and sport the receilent. Two reports gave the day of the manther of previous year of the rest. were excellent. Two reports gave the day of the month, instead of the day of

* One observer gave *Rhodora*, first seen, 178. A number of such errors leads when ask what the observer means by "first seen?" It certainly does not mean, they first see it, unless they have been looking for it. What is meant when columns are filled in with same date? Is this the same error? They probably mean that when they first see it, it is becoming common

Errors:

"Spring Beauty" was reported from one place only, and that was wrong. 1

"Pigeon Berry", opening, 180. Fruit ripe 212. 1

"Star Flower" is usually reported too early. I doubt if it is the star flower that h_{D_1} ia acen.

"Lambkill" reported too early on a number of sheets.

One report was thirty days too late on all observations. This was due to miselculation.

"8pring plowing" 82 would be unusual.

Suggestion: Be careful in filling in blanks at head of the report sheet. The were and in consistencies. Suggestion: Be careful in filling in Diamas at near of the report.

Is Dalhousie only fifteen miles from the sea coast?

The compiler wishes to thank Miss Bertha Oxner of Kentville Academy for valuable mistance.

REGION IV. ---HANTS AND COLCHESTER, SOUTH OF COBEQUID BAY.

J. E. Barteaux, M. A., Principal Truro Academy.

Nineteen schedules were received from this region. Two were rejected because were recorded in day of month instead of day of year. Another was rejected in the month too early. Evidently the compiler made the were recorded in day of month instead of day of year. Another was to be the state all dates were about one month too early. Evidently the compiler made the state of table as the first day of the month titake of taking the day of the year given in the table as the *first* day of the month the day of the year given in the table as the *first* day of the month the day of the year given in the table as the *first* day of the month the day of the year given in the table as the *first* day of the month the day of the year given in the table as the *first* day of the month the day of the year given in the table as the *first* day of the month the day of the year given in the table as the *first* day of the month the day of the year given in the table as the *first* day of the month the day of the year given in the table as the *first* day of the month the day of the year given in the table as the *first* day of the month the day of the year given in the table as the *first* day of the month the day of the year given in the table as the *first* day of the month the day of the year given in the table as the *first* day of the month table as the *first* day of table as table as the *first* day of table as table as table the dot taking the day of the year given in the table as the just day of the perturbed of taking the day of the year given in the table as the just done, fairly full and pretty wrate. bourate.

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Note last days of May, whereas it is never found till a month later. These persons are widently reporting Rhodora as Lambkill.

The report on the birds is hardly satisfactory, there being too great a difference the dates "when first seen". Several are too early, while many others are much too Study with first seen". will easily remedy these defects. the dates "when first seen". Several are too early, while many end, Study, with close observation, will easily remedy these defects.

REGION V .--- HALIFAX AND GUYSBORO COUNTIES.

Geo. R. Bancroft, B. A., Science Master, Halifax Academy.

Twenty-eight schedules for year ending sur, is sirteen less than the number of last year. Twenty-eight schedules for year ending July, 1909, were received from this region, is size

We are sorry to note the decrease, as it shows a lack of interest in nature-study We are sorry to note the use the teachers of this region.

(b). Nineteen of these schedules were compiled—nine from belt (a) and ten from belt Some of these were very creditable indeed.

The best schedules were those received from the school districts of North Interval, of observations, New Town, Ecum Secum West, Smith's Cove, and Sibley's. These lists revations were quite complete, neatly prepared, and had many additional ob-

tording their observers used the day of the month instead of the day of the year, in re-toport the abservations, and gave only the dates for "first seen." Two teachers the abservations, in *Landaux* while Miss Ferguson reports it as abundant in

North Interval, Guysboro County. In compiling many irregularities and errors were found, which have been pointed out to all the set found, which have been pointed out so often in the JOURNAL, that it seems useless to enumerate these same errors from year to

I should be pleased to aid any beginners, who may find difficulty in the work o^{f} ification. classification.

REGIONS VIA, VIB & VII. CUMBERLAND AND N. COLCHESTER COUNTIES.

F. G. Morehouse, Principal Public Schools, Springhill.

I beg to submit the following brief report upon the schedules for Colchester and Cumberland counties, which embrace Regions, VI A., VI B. and VII.

The total number of schedules received from this section was 76, region via ishing 37, VI B., 13 and VII. 26. The schedules furnishing 37, VI B., 13 and VII. 26. The schedules were all fairly neat, and observations in most cases seem to have been carefully made, altho' some "old time" still exist. These must be made by teachers who have recently in the profession. still exist. These must be made by teachers who have recently entered the profession, or by those who do not read the reports upon these and the recently entered the JOURNAL or by those who do not read the reports upon these schedules published in the JOURNAL OF EDUCATION each year. It is quite evident that source published in the changing or EDUCATION each year. It is quite evident that some errors are made in changing from the day of the month to the year day. One share from the day of the month to the year day. One observer gives Cornus Canadense "fruit ripe" two days after flowers were "becoming common." An error of this kind can only be ascribed to such a mistake.

The farm and weather phenomena should receive more attention. No schedule a full list and a great many did not show over a reliable time bird observer. gave a full list and a great many did not show even a partial one. No scheerver tions are very few, and of those that were recorded for the other transmission incorrect. tions are very few, and of those that were recorded fully fifty per cent were incorrect.

Many teachers still need to be cautioned in regard to filling in the "when becoming mon" column. It would appear that some that is the "when becoming column. It would appear that some teachers followed a mathematical ather than the results of careful observations. common' formula rather than the results of careful observations.

The following notes may be of interest:-

- (a) Alnus incana, Populus tremuloides and Equisetum arvense were seldom correctly reported.
- (b) Hepatica triloba has one observation which has been recorded. This plant is not widely distributed in the province and the control of sufficiently sufficiently the second state of th is not widely distributed in the province and the compiler is not whether is not acquainted with the locality from which it was reported to know whether it actually occurs in the vicinity. The fact
- that it is to be found in the woods should not prevent a record as it is a plant which will readily interest any pupil. (c)
- Rhododendron Rhodora and Kalmia angustifolium are still confused, but as Iready said, the teachers who make these blunders of a result has been written a this subject constant. already said, the teachers who make these blunders after all that has been written on this subject cannot be interested around in this read the report (d) on this subject cannot be interested enough in this work to read the report that appear from time to time. Teachors about the vortex of about that appear from time to time. Teachers should look for No. 26 about toria Day" and No 36 about the lost toria Day" and No 36 about the last week in June.
- (e) Cornus Canadensis is fairly well reported, but from the early dates given in many cases it would appear that several d, but from the opening of the in many cases it would appear that several teachers mistake the opening of the involucre for the actual flowering. involucre for the actual flowering.
- (f) Clintonia borealis is a common plant in all our woods and should have to be found by most all the same may be said found by most all and to be more observers. The same may be said of *Brunel/a vulgaris*, a plant to be found by most all roadsides.
- (g) Many of the records given for Phleum pratense are early. This probably arises from taking the heading out for the probably
- (h) Many of the weather observations have to be omitted. One observer bas "First autumn frost" 180. Records of this nature are worthless.

REGION VII.-PICTOU AND ANTIGONISH COUNTIES.

W. P. Fraser, M. A., Science Master, Pictou Academy.

There were about the usual number of schedules from Pictou and Antigonish Counties, 44 in all. Six of these were from Antigonish County. There was a decided improvement is the schedules both in the number of observations and in the improvement in many of the schedules both in the number of observations and in the accuracy of the schedules both in the number of observations and in the accuracy of the records. Some deserve special mention.

School, Miss Ada S. MacDonald, teacher. The regular schedule was nearly complete and about 200 additional observations were recorded. Moreover, the records indicated carefulness and and a rare enthusiasm and interest in nature The schedule showing the largest number of observations came from Hopewell carefulness and accuracy of observation and a rare enthusiasm and interest in nature tudy. As and accuracy of observation accuracy from W. Br. River John, Miss Lola telulness and accuracy of observation and a rate entities and interest in nature tudy. Another full and accurate schedule came from W. Br. River John, Miss Lola Maxwell, teacher, and one from Glencoe school, Miss Mary A. Thompson, teacher, though not so full showed unusual care and accuracy in making observations. Others deserving monthly for a schedule care and neatness in entering them were, deserving mention for accuracy of the dates given and neatness in entering them were,— Miss Les Miss W. Irene Thompson, Blanchard, Miss Mary M. Cameron, Sutherland's River. The best schedule from Antigonish Observations to much them with these mentioned. observations to rank them with these mentioned.

 S_{everal} of the schedules showed the usual mistakes, some of which may be mentioned. The dates for the Field Horsetail and the Ground Ivy are in many cases too the Observers should make sure of the correct species in the former as well as in the shodora tracted make sure of the latter species seems to be rare in this part Abodora, Lambkill and Pale Laurel. The latter species seems to be rare in this part of the Court of the County at least, the others are very common.

In the case of the Hawthorns it might be well for observers to record the one grown in hedges as the English Hawthorns it might be well for observers to record the one grown leaves and its small dark-red fruit with one nutlet. The others, which usually have black, incident and its small dark-red fruit with one nutlet. None of our heaves by the state of the English fraction with one nutlet. The others, and the state of have builder the Scarlet Fruited Thorn (Crataegus coccuted). The second of the maximum second builder the Scarlet Fruited Thorn usually blooms a week or two earlier than the English.

There should be more records of the Yellow Rattle. It is very common in fields, and is in bloom about Pictou before the close of the term.

- Nuch dates as 106 and 107 for the Night Hawk are about a month too early. A few here the Mark and 106 and 107 for the norbably not found in these counties. M_{any} of the dates of the bird migration are too late and have to be rejected, but d_{atac} of the dates of the bird migration are about a month too early. A form the Meadow Lark which is probably not found in these counties.
- the dates of the thus... The dates of the thunderstorms should be entered as the day of the year rather

REGIONS VIII, IX AND X .-- CAPE BRETON ISLAND.

M. D. Davidson, B. A., Principal Public Schools, North Sydney.

75 schedules were sent in-48 from Cape Breton and Richmond and 27 from Inverand Victoria. Many of these were prepared with care, notably, Bay St. Lawrence (with 259 at the care) of these and French Road. (with 259 observations), Sky Glen and French Road.

Three teachers failed to sign their names. Some used day of month instead of Several filled in column for "first seen" but left "becoming common" blank. $T_{eachers should be careful to place all dates directly at end of dotted line.$

Some errors noted:---

1-98 too early for Alder catkin shedding pollen.

2-102 too early for Aspen.

130, 136, 130 for 6, and 128, 130, 119, for 7, reported from Nyanza, Mabou and loch are very obvious mistakes as the set of the Gairloch are very obvious mistakes as the white violet flowers several days before the blue. blue.

9. 118 too early for red maple flowers shedding pollen.

12. 160 late for dandelion.

14. 172 too late for gold thread and 119 too early.

180 late for ground ivy. 16.

130 early for star flower, probably gold thread; the latter should be about the former, 1st June. The plants are called in the latter should be the 29. The plants are easily distinguished by the roots. 1st May, the former. 1st June.

35.Seven observers called Rhodora, Pale Laurel.

In two cases 36 was reported 14 days before 35. Pale Laurel should be from ays before Lambkill. 36. 15 to 20 days before Lambkill.

220 and 248 too late for Fall Dandelion. 50.

63. 210 late for first seen.

Bay St. Lawrence gives 114 for first seen, while in extra observation slate 85. colored Junco is reported 98, which is correct date for 85. 98 too early for summer yellow bird, probably mistake for yellow palm warbler

90.

98. 118 too early for night hawk. One observer reports it 14th Jan.

Blood root was reported from Big Ridge, Victoria Bridge, Grand Mira North and Murphy. Adder's tongue lily from St. Patrick's channel, Portage, French Horne's Road. It is doubtful if either is found in Cane Briter Prince

Meadow Lark reported from St. Patrick's Channel.

Grand Mira North, Valley Mills and Horne's Road. It does not come to Cape on, as far as I can ascertain. Breton, as far as I can ascertain.

One observer omits 40 and reports common white daisy among extra observations common white daisy is "Ox-eve daisy" The common white daisy is "Ox-eye daisy."

Another omits 49, and reports "Rose flower" among extras.

Several teachers reported frogs and snakes going south a few days after their first arrance. appearance.

Another reports last snow whitening the ground 10 days after last snow flying in ir. the air.



Notice.

CHANGE OF DATES FOR THE PHENOLOGICAL SCHEDULES.

lotward sent in twice a year (with the semi-annual returns). This atranet It is proposed to have the schedules of observations hencearangement will enable the Education Department more easily to compensation of the Calendar year, so as to compile the information in periods of the Calendar year, so as to be more readily comparable with phenological observations in other the other countries, and with the voluminous meteorological staustics collected, compiled and published by the Dominion.

The schedule sent in at the end of the first half of the school year is intended to cover the time from the 1st of July to the end of December 1 to cover the time from the 1st of July to the end of December—thus completing the Calendar year.

The schedule sent in at the end of the school year is intended to cover the observations from the 1st of January to the end of $J_{u_{1e}}$ June.

Where the same teacher is employed in the section during the where the same teacher is employed and $\frac{1}{2}$ where the same teacher is employed in during the first week of \mathbf{F}_{ehc} calendar year, the schedule sent in during the first week $\frac{1}{2}$ and $\frac{1}{2}$ to cover the whole calendar year, of Rebruary, is recommended to cover the whole calendar year, from the aust of December. Such a schedule For the 1st of January to the 31st of December. Such a schedule will be will be complete in itself for the whole calendar year, and the fact of its reaction of the lune schedule will be no inconof its repeating the contents of the June schedule will be no inconvenience to the compilers, while it will reflect favorably on the teacher.

This course may be followed by a teacher new to the section, Provided the previous teacher left the record on file or in the register, the previous teacher left the *Calendar* year can be legister. Whenever the observations for the Calendar year can be Byen complete, there is an advantage in giving it in the schedule tent in with the February returns.

7

PROPOSED COURSE OF STUDY FOR THE COMMON SCHOOLS AS SUBMITTED TO THE P. E. A. 1908 AND AMENDED.

[For further discussion and amendment at the meeting of the Provincial Educations Association, 1910.]

The Committee appointed by the Provincial Educational Association "to act the Superintendent of Education in defining and the superintendent of Education in defining and the superintendent of the su with the Superintendent of Education in defining and determining the amounts school subjects of the newly adopted High School program. subjects of the newly adopted High School program, in revising the amounts of School Course, and in effecting the best articulation between the revising the Common follows: Course, and in effecting the best articulation between the two," beg to report as follows:

Your Committee held its first meeting during the Christmas vacation of 1906-07-

After a somewhat extended discussion of the general features of the existing course study, sub-committees were appointed each to of study, sub-committees were appointed each to prepare a course of study in a specified department of the school program. These reports it is the hands department of the school program. These reports it was hoped to have in the general committee for consideration at New Year, 1908. Failing this, the general committee was obliged to postpone its second meeting with a balance of the present of the present committee for consideration at New Year, 1908. committee was obliged to postpone its second meeting until shortly before the present meeting of the Provincial Educational Association meeting of the Provincial Educational Association. A resolution, empowering ubic various sub-committees to add to their personnel representative teachers of the public schools, has throughout been acted upon and the schools, has throughout been acted upon, and the hereto attached sub-committee reports are presented as the findings of sub-committee in put reports are presented as the findings of sub-committees considerably enlarged in pur-suance of this resolution. It is in place here to work in distributions in the sub-committees considerably enlarged in the suance of this resolution. It is in place here to mention that your Committee residing experienced no little embarrassment through the circumstance of members residue far apart and being unable to confer except by mail to the second sec far apart and being unable to confer, except by mail, and through a general reluctance and its part to commit the Education Department to any and through a general reluctance and the second s its part to commit the Education Department to any considerable expense in printing and exhaustive report and fully detailed courses of study while exhaustive report and fully detailed courses of study which would probably not prove final and definite without much alteration

After a careful survey of existing conditions in our public schools and a critical ew of the present common school program. Your Committee schools and a critical review of the present common school program, your Committee has to report that in its opinion, the present program is on the whole will determine the program is an analytical school will be the school wi in its opinion, the present program is, on the whole, well balanced, correct in educational principles and judicious in detail. tional principles and judicious in detail. The general prescriptions are founded upon an acceptable educational philspophy: they are founded upon an acceptable educational philsoophy; they set forth distinctively and clearly educational aims universally admitted to be true, and they briefly and clearly admitted to be true, and they briefly and clearly admitted to be true. an acceptable educational philsoophy; they set forth distinctively and clearly educational aims universally admitted to be true; and they briefly but skilfully suggested pedagogic procedure appropriate to a great variety of school activities. The spont prescriptions for the various grades are also admirable, the whole standing as a mont to the intelligence of our educational administration, not merely illustration a prophetic insight into a prophetic insight into a set of the world, but revealing from time to inc. close touch with the educational progress of the world, but revealing from time to time a prophetic insight into movements hitherto di a prophetic insight into movements hitherto discernible only to the seers of education. As instances of educational foresight we would As instances of educational foresight we would point to the treatment in our common school program of manual-training, household science, nature-study, and physical training.

Had we but a corps of teachers trained to interpret and to administer the e_{ij}^{ijt} be distinctly understood, however, and constantly borne in mind that we have no such corps d'elite except for a limited proportion of the form in mind that we have no such at the Normal College corps d'elite except for a limited proportion of the fifty per cent. of our teachers trained gogical antecedents and special aptitudes. This condition admitted, it would appear that some particular consideration is due those large works are four teachers who either from worth and inverse. that some particular consideration is due those large numbers of our teachers who either from youth and inexperience, or from want of training and the provide of from from youth and inexperience, or from want of training and of special aptitudes, or from lack of extensive knowledge, of sense of educational of special aptitudes independent lack of extensive knowledge, of sense of educational values, and of scleetive judgments are incapable of interpreting and of utilizing over the close nacked prescriptions the close nacked prescriptions the close nacked prescription of the close nacked prescription are incapable of interpreting and of utilizing except meagerly the close-packed prescriptions for the various courses of study in the side

In short, your Committee would state with all possible emphasis that the ultimate **Revision** of the existing program of studies must consist, in the main of a fuller-indeed, of a very full-detailing of the content of each of the subjects and an indicated treatment of those details calculated to reveal their educational and economic to the appropriate pedagogic method. Everywhere throughout and economic values and the appropriate pedagogic method. Everywhere throughout the Environment of the educational administrators and framers of courses the economic values and the appropriate pedagogic method. All strains of courses of study has speaking world, educational administrators and framers of courses of study has speaking world, educational administrators and framers of courses of study has speaking world, educational administrators and framers of courses of study has speaking world, educational administrators and framers of courses of study has a speaking world, educational administrators and framers of courses of study has a speaking world, educational administrators and framers of the speaking world. of study have until lately overlooked the necessity of providing the teacher with programs such as here described. They have proceeded, as it were, on the lath that the average teacher is little short of a creative and executive genius, and that, by leaving or average teacher is the program of studies to the judgment of the Auth that the average teacher is little short of a creative and executive genus, and that, by leaving as much as possible in the program of studies to the judgment of the individual, there would result a stimulation of initiative which would diffuse itself beneficially among the entire body of teachers. The time has now fully come for us to protest that we teachers have been overestimated. We are, in fact, beginning to easily under the increase of circumstances which leave so very much to our individual bafe under that we teachers have been overestimated. We are, in fact, organized to be the set of th tome one else's judgment to which we may authoritatively refer when our own fails us.

And so it is that time and experience have not borne out the faith in which the $c_{ustomarily}$ and so it is that time and experience find the second study were framed. We find the brief and pregnant courses of study interpreted and We find the conviction that the lack of a fully interpreted and detailed program of studies throws upon the common-school teacher an intolerable burden. Even the aptest and the super the teachers faint under the effort of daily forecasting and aptest and the best-trained teachers faint under the effort of daily forecasting and Working and the best-trained teachers faint subjects, lessons expected to be consecutive working out fresh lessons in half a dozen subjects, lessons expected to be consecutive in subject-matter and progressive in treatment. In the rural miscellaneous school the teachers have been and progressive in treatment of the schools of two the teacher's burden is at a maximum, declining as we pass through the schools of two and three teacher's burden is at a maximum, declining as we pass through the schools are reached. and three teachers until the fully staffed departments of town schools are reached. And it is the fully staffed departments of town schools are reached. And three teachers until the fully stated department of version of and ill-schooled that can be that the rural school teacher, so often untrained, inexperienced, and ill-schooled that can be the rural school teacher. that can least stand a double allotment of work.

A further elaboration of the evils attendant upon courses of study sketched merely in a further elaboration of the evils attendant upon bottleft to subsequent discussion if this he is perhaps unnecessary here and may best be left to subsequent discussion which it inif this be is perhaps unnecessary here and may need to the enormous labor in which it in-volves the invited. Should a parallel be desired to the enormous labor in which it in-upon to work out his plan of daily lessons in language, mathematics, the sciences, and literature iven to work out his plan of daily lessons in language, matter to him consecutiveness of treature, unaided by the customary text-books which ensure to him consecutiveness of treatment and daily allotments of work.

Before proceeding to illustrate in the concrete the courses of study as we would il them the proceeding to illustrate in chieftion which may possibly be urged against detail them, let us here anticipate an objection which may possibly be urged against our recommendation of the state of th our recommendation. It may be thought that an exhaustive prescription would result in mechanic and the more exhaustive the in the decommendation. It may be thought that an exhaust to the more exhaustive the prescription the clearer will stand revealed both the educational aims and the methods of instruction. following instruction. In revealed both the condition and effectiveness by following instruction. Even the feebler teachers will derive confidence and effectiveness, but with a standard of teachers and the feebler teachers in subject matter, consecutiveness, Instruction. Even the feebler teachers will derive connected at a consecutiveness, with ing a course of study which ensures correctness in subject matter, consecutiveness, of its accurse of study which ensures both of pupil and of teacher, and certainty with its a course of study which ensures correctness in subject interest, some certainty of aim. Most subject which ensures the teacher will follow rather from vagueness the function of the teacher will follow rather from vagueness of aim its accompanying economy of resources both of paper will follow rather from vagueness than from dechanization of the function of the teacher will follow rather poorly schooled teachers in from dechanization of the single of the untrained and the poorly schooled teachers. than from Mechanization of the function of the teacher will reduce and the poorly schooled teach-er, timid definiteness of prescription; for the untrained and the poorly schooled teachbranch to a very the second territies of territies and territies of territies terr branch to a minimum of content and to a routine of imparting formal facilities. Be-Yong the a minimum of content and to a routine of impactions of their acquisition are minimum of content and to a routine of impact of the three R's in their acquisition are because the three R's, she is capable of little; and even these R's in their acquisition are because the three R's, she is capable of little; and even these the intellectual and economic she and the three R's, she is capable of little; and even these the state and acquisition are the little tasks of whose application to the affairs of life intellectual and economic she little tasks of whose application. has little knowledge and less experience.

is To those who may fancy that, in prescribing courses of study, the mean continue arrived at where the prescriptions are made by reference to pages of certain text only. We would be the prescription of the second study where the prescription is that, except for those teachers whom intelligent that we would be available to the prescription of t To those who may fancy that, in prescribing courses of study, the ideal condition rived at who may fancy that, in prescribing are made by reference to pages of certain text altive data where the prescriptions are made by relevance to pages of certain enter books, we would respectfully submit that, except for those teachers whom intelligent but renee here the printed syllabus, textwhere the present that, except for those teachers whom interactions to be the syllabus, text-book present is released from continual dependence upon the printed syllabus, text-te present to high schools in the printed syllabus to high schools in the present of the printed to high schools and this observation we would extend to high schools are present to the printed schools are present to the printed schools are present of the printed schools are present to the printed schools are printed schools are present to the present to the printed schools are present to the pri book prescriptions are dangerous; and this observation we would extend to high schools be well as to the school. Prescription of the content of instruction should be be as to the school. be made in terms absolute and not relative to books. To prescribe from books alone of the mate in terms absolute and not relative to books. To prescribe from books alone of the mate in terms absolute and not relative to books. to tempt the idle teacher into substituting for instruction more or less mindless tasks the memorie in terms absolute and not relative to books. 10 prescribe from books tasks the memorie in the idle teacher into substituting for instruction more or less mindless tasks the memorie in the idle teacher into substituting for instruction more or less mindless tasks the memorie in the idle teacher into substituting for instruction more or less mindless tasks the memorie is the idle teacher into substituting for instruction more or less mindless tasks the memorie is the idle teacher into substituting for instruction more or less mindless tasks the memorie is the idle teacher into substituting for instruction more or less mindless tasks the memorie is the idle teacher into substituting for instruction more or less mindless tasks the memorie is the idle teacher into substituting for instruction more or less mindless tasks the memorie is the idle teacher into substituting for instruction more or less mindless tasks the memorie is the idle teacher into substituting for instruction more or less mindless tasks the memorie is the idle teacher into substituting for instruction more or less mindless tasks the memorie is the idle teacher into substituting for instruction more or less mindless tasks the memorie is the idle teacher into substituting for instruction more or less mindless tasks the memorie is the idle teacher into substituting for instruction more or less mindless tasks the memorie is the memorie is the memory of the mem to terms absolute and not returning for instruction more or less minutes and the information into a substituting for instruction more or less minutes and the ability easily to organize the information. The teacher who lacks initiative and the ability easily to organize in the text finds the mere text-book prescription a partial in the text finds the mere text-book prescription. the information contained in the text finds the mere text-book prescription a partial utilification for contained in the text finds the mere text-book prescription a partial text. The institution for dull treatment and the traditional question and answer methods. The busy of phone will treatment and the traditional question and answer methods. The busy of phone will treatment and the study of books. The intelligence of the tudy of phenomena is supplanted by the study of books. The intelligence of the pupil is stight of knowledge and leaving pupil is stifled by shutting out from him original sources of knowledge and leaving

him ignorant and unpractised in the art of acquiring knowledge except at second-hand, a condition of things still deplorably common in our schools and one toward the for rection of which the framer of courses of study should bend all his energies. while your Committee would, in no sense, be held to underrate the ability to procure knowledge through reading on the advected to advect the sense. knowledge through reading, or to advocate the dispensing with textbooks, it claims that the highest efficiency intellectual and that the highest efficiency, intellectual and economic, will never be approached in schools which fail to recognize the superior will never be approached. schools which fail to recognize the superior value of the ability to gather knowledge and experience at first-hand. We have a school of the ability to gather knowledge and experience at first-hand. and experience at first-hand. We live in a world of great opportunities, in a new land, and amid economic and social resources are and amid economic and social resources comparatively unexploited and unexplored. Our economic progress and the vitality of Our economic progress and the vitality of our civilization depend largely upon the capacity of our people to recognize therease capacity of our people to recognize *phenomena* and to deal with actual conditions and concrete realities. The methods of childhow has a biometer of the second sec The methods of childhood and of school days should be fashioned essities, the opportunities and the in view of the necessities, the opportunities, and the conditions which the child will meet with in manhood and womanhood womanhood was and the conditions which the child will meet with in manhood and womanhood years; and these methods will be sufficiently complied with where the necessition and womanhood years and these methods will be sufficiently the complied with where the necessities, opportunities, and conditions amid which the child now lives and moves are made the chief medium of instruction and the chief means of education. Accepting this principle is adjusted in the interview of the second sec means of education. Accepting this principle in education, the text-book fulls into its proper and useful place in the well-conducted school and the text-book fulls into its proper and useful place in the well-conducted school as labor-saver and partial guide to the teacher, as home-companion and mentor to the subor-saver and partial guide to the teacher, as home-companion and mentor to the pupil. Often, too, it must re-main the one and only source of information to beth pupil. main the one and only source of information to both teacher and pupil.

A word may be spoken here to allay the fears of those who suppose that in de-ng at great length the various courses of study and in the suppose that treat tailing at great length the various courses of study and indicating both aim and treat ment, we should be removing the concentration in the should be removing the should be removing the concentration in the should be removing the should be removing the concentration in the should be removing the should be removing the should be removing the should be removing the should be removed by ment, we should be removing the opportunity for initiative in the selection of topic and illustrations, or in the choice of methods of a and illustrations, or in the choice of methods of approach and of treatment.

So far as topics and illustrations of principles are concerned we protest that there are of infinite number and variety. Each field of knowledge as represented in each of the subjects of the common school is boundless. the subjects of the common school is boundless; and the teacher who is original enough and ambitious enough to desire to improve more than the teacher who is original to be topics and ambitious enough to desire to improve upon or to modify the selection of topics and illustrations offered in any or all of the courses of study may safely be trusted to do so. Indeed, such an one is the sort of experimentar that is may safely be trusted to Indeed, such an one is the sort of experimenter that is desired—the sort through the gradual perfection of tentative courses of that is desired—the sort through whom the gradual perfection of tentative courses of study will be accomplished.

As to limiting the teacher in methods of treatment, that is not the result we look a associating with the content of instruction suggestion. for in associating with the content of instruction suggestions as to its uses and its means toward the achievement of educational ender For formation is used and its uses and its means toward the achievement of educational ends. Far from it. We would remind our objector, however, that presumably, the teachers who are it. We would remind an area and a state of the sector of the sec objector, however, that presumably, the teachers who are to administer the program of studies and the authorities who framed it are of one minister the program of studies and the authorities who framed it are of one mind on educational aims and values and in harmony upon matters of general method values and in harmony upon matters of general method, and that, therefore, no gran hardship would be felt if, in respect to aims and general method, the program courses were coercive. As to particular methods, these like interactions of princourses were coercive. As to particular methods, these, like illustrations of prin-ciples, should remain a field for the individual amount of the indin amount of the indi ciples, should remain a field for the individual experimenter, whose study and research will afford perennially welcome contributions to the lite. It is not a study and research to will afford perennially welcome contributions to the Education Department and research to pedagogic progress.

A word to those who fear that the present program and courses are overloaded, does it come to pass, may we ask, that teach and courses are overloaded of differing How does it come to pass, may we ask, that teachers of equal opportunity but of difference aptitude disagree upon this matter? The question has been threshed out at diverse times and in sundry places, and some years are the state the state of the state times and in sundry places, and some years ago the attention of the educational world was seriously directed toward inquiry into the attention of the educational world Everywhere was seriously directed toward inquiry into the merits of the educational where candid inquiry arrived at virtually the same conclusion, namely, that overloading of programs and overpressure do exist but that these on annetic like due not to the of programs and overpressure do exist but that these are essentially due not to the presence of too many subjects in the common at the second presence of too many subjects in the common-school program but to the defined interpretation of the purpose of the various subjects of the program but to the defined and imperfectly defined courses of study. Common-school as well as high-school courses were defined sometimes simply by naming the solution commetimes in a mere courses were defined sometimes simply by naming the subjects, sometimes in a mere sentence or two, and frequently by indicating the subjects, sometimes in a ketch. sentence or two, and frequently by indicating pages in specified text-books, the sketch-ing-in of the detail in proper perspective being set in specified text-books, the sketch ing in of the detail in proper perspective being left to the teacher or to the principal. In many cases, the principal, whose profession was that of a high-school specialist, was less capable of interpreting and detailing than were his subordinates in the com-mon-school grades.

It resulted, among other evils, that the school program became ill-balanced, ses of study for which the grade teacher which a meterance being courses of study for which the grade teacher or his superior had a preference being unduly developed to the neglect of acculture unduly developed to the neglect of equally important subjects, nay, even of the three

R'a. Very often, as is still the case in many of our own schools, worthless topics found their way into the various courses, or unimportant ones were set forth in detail while **contails** received scant treatment. The arithmetic of such schools was likely to abound in problems of alligation, of grindstone partnerships, or curious puzzles, while ittle provision was made for practising pupils in common and useful calculation. Abbelonging to the correction of common errors and the enlargement of the pupil's powers of expression. Geography was as likely to deal largely in inapposite problems of astronobservation of the phenomena exhibited in our immediate surroundings and the interpretation of the earth in its relations with man as an industrial and social factor.

Even worse, perhaps, was the failure to adapt the exercises of pupils to the varying interests and developing capacities of succeeding grades and ages. Since the same followed that the same topics, sub-topics and illustrations were repeated throughout instruction became a sing-song in the pupil's ears and came trippingly from his tongue. When this happy end was compassed, it was fondly believed that the pupil had achieved chaotic state was reached, where, as in country schools, none except the vaguest record of the former teacher's work remained to guide the incoming teacher in his treatment of the various courses in the different grades.

Lest it may be presumed that in the upper grades of the common school, where battbooks are used in various subjects of instruction, the teaching must of necessity be well graded, we now proceed to affirm the unwarrantableness of such a conclusion. In the first place, text books are not used in nearly all of the subjects. A reading-book alled with choice selections of literature is not a text-book in reading; it does not in the remotest way touch upon the pedagogic principles or the art of reading. The same may be said of a writing-book.

To particularize further, there is no text-book prescribed to indicate to the teacher the scope and treatment of the history set down for grades five and six; no geography extent for grades four and five; no nature-study text for any of the grades. True, the boucktow and intelligent teacher has accepted the recommendations of the JOURNAL OF to her notice. But what of the less earnest and less intelligent? Having no book intend upon them, they have sought none, and they have pestered children with comderstanding.

In the second place let us point out that the orthodox text-book in geography, well-graded instruction. Though consecutive and logical in its treatment of a subject, it does not aim at being a treatise on method. It must, in order to sell well, be cheap. To well cheaply, it must be brief. To be brief, it has to depend for emphasis chiefly upon the mechanical devices of the printer. It can afford neither repetition, lengthy well-trained pupil. In short, it confines itself to the strictly scientific treatment of logical order.

bold the strend order is not by any means the order which is always calculated to teachers, which follows, when expedient, the order suggested by the present interests bot always, in the adult sense of the term, logical, and it is a wise teacher that recogtion in accordance with the child's changing and growing apperception-masses. And tendered not merely innocuous but nutritious.

To approach now the matter of the three R's. That the public and the school writing, and arithmetic is impossible. The criticism is not infrequently made, howeves

that the multiplicity of subjects in the school program, by reducing the time and effort bestowed upon these instruments of education has often misled teachers into minimizing the value of these instruments. Spelling and penmanship are the subjects in which it is claimed there has been and still is constant danger of retrogression. Arithmetic, it is admitted, has been cultivated with assiduity, if not always with practical results commensurate with the energy expended upon it.

The sub-committees that have had in hand the various subjects of the program are unanimous in insisting upon it that the best results in reading, writing, and arithmetic are attainable only through a rich and varied program of studies. Paradoxid as this may first appear, it involves nothing unreasonable. Neither reading, nor writing, nor arithmetic is a process per se. There must be an intellectual content to each and the content should not be circumscribed by either text-book or tradition, should be drawn from the whole realm of the child's activities and, whenever possible, from matters dealt with in the various other branches of the school program. Water-tight compartment system of instruction is a thing of the dead past. It belongs to the days of rule-of-thumb arithmetic, of counting one at the comma, two at the semi-colon, and three at the full-stop.

Economy of effort and effectiveness in the teaching of the three R's are to be achieved not by placing entire dependence upon exercises solely for practise in enurciation, or in calculation, or in penmanship. Such exercises are in no sense to be the direction of the contrary. But the school will fall far short of efficiency in and three R's unless the teacher is watchful to note the errors of pronunciation, spelling expression of the pupil outside as well as inside the special reading and spelling classes it may be is a neat and legible effort; unless the studies of the earth and man, are made to furnish problems to corroborate and illustrate arithmetical principles likely otherwal to remain abstractions. In brief, to guarantee a creditable output in the formal for eilities of reading, writing, and arithmetic, the teacher must correlate these with the various other activities of the school. To quote the "Instructions to Teachers" isseed by the English Board of Education:

"A facility in reading and writing should not be regarded as an end in itself, other, "wise children assume that reading is a tiresome exercise and that writing is a form of "handicraft valuable only to clerks and accountants. The reality of the matter should "be brought home to the child's mind that writing is a means for fixing in intelligible "language and character the passing thought; that reading is a means of increasing "the stock of words at command, of acquiring new ideas about men and things in the "present and past, a resource for leisure, for illness, for old age, an essential not merelf" to success but to pleasure and interest in life."

Our program of studies, accordingly, before it can at all fully meet the needs of the child must be made up of courses of study not separate and self-contained inter-related and coherent, indicating a unified process and a unified subject matter. The principle of correlation of studies is, in fact, one of the basal principles upon which a program and courses must rest. We have placed it first. Certain other important considerations which should guide the makers of common school programs and courses and some of which have already been referred to in this report may convert

1st. That knowledge should be presented as unified, not dispersed, the various courses of study being as fully as possible correlated.

2nd. That the knowledge which is likely to be of use in after life and those of cupations which the pupils are likely to pursue furnish subjects for the common school program quite as educative as those subjects traditionally consecrated to education.

3rd. That the courses of study should keep in mind those pupils who leave school at the sixth, seventh, or eighth grade, and should aim to render these pupils so far conversant with the fundamental processes of commerce, agriculture, and other great industries as to ensure on their part a capacity for self-improvement.

4th. That while utility largely determines for us the subjects of the program, the topics, sub-topics, illustrations and applications should spring from the present needs, interests and environment of the pupils as well as from considerations of program.

5th. That the courses of study should be outlined and detailed in accordance with the increasing capacity and the changing and developing interests of the succeeding grades, the reasing capacity and the changing are and experience of the pupil. that is to say, of the increasing age and experience of the pupil.

6th. That in all instruction it should be aimed at to provide the pupil with abundant contacts with material things and with society, and from his concrete experiences to proceed to with material things and with societ, and from his concrete experiences. to proceed to an interpretation of the material, social and moral order in which he lives.

7th. That it is not prudent that a course of study should comprise only what the average child can fully retain in his memory throughout the school period or even throughout the school period or even throughout the year.

8th. That the program and courses of study should be such, in point of content treater to a structure the instruction but the education of the child and treatment, as to ensure not merely the instruction but the education of the child point of the child education of the child in point of character, culture and efficiency.

it understood that we in no sense underrate the value either of a good memory or of exercises and that we in no sense underrate the value either of a good memory or of the memory efficient. Our purpose is, rather, to em-Adverting to the principle which we have put in the seventh place, we would have exercises calculated to render the memory efficient. Our purpose is, rather, to emplasize the well known fact that much that is taught in the history and the literature class, the well known fact that much that is setting, may accomplish the very best results class, though forgotten in substance or in setting, may accomplish the very best results in the new forgotten in substance or in setting. Aug. though forgotten in substance or in setting, may accompass the very best results in the power to appreciate what is worthy in human conduct or important in our social relations. Much that is studied in the "Nature" class may appear to be totally for-sotten; but nothing is surer than that, if the method of study has been sound, there has resulted to the pupil a greater readiness to deal with similar or allied matters; and this is the end sound to The facts peculiar to the problem are incidental and accessory, and $\mathbf{k}_{\mathbf{k}}$ resulted to the pupil a greater readiness to deal with submit idental and accessory, and are no sought. The facts peculiar to the problem are incidental and accessory and are no sought. and are no more necessary to remember than are the numerical facts in those arithmetic problems the more necessary to remember of which the learner acquires a comprehension problems through the study and solution of which the learner acquires a comprehension of the prime through the study and solution of mathematical habits. of the principles involved and disposes his mind to mathematical habits.

there are well-meaning people who suppose that, since the youthful mind is permitted and practice are well-meaning people who suppose that, since the youthful mind is permitted brack brack and practice of the pre-We feel called upon here to dilate upon this principle for two reasons; first, because and practised to range over a fairly wide field of knowledge, this is done to the pre-judice of the to range over a fairly wide there are teachers who, discouraged by the indice of thoroughness; secondly, because there are teachers who, discouraged by the readiness with ughness; secondly, because there are teachers who, discouraged to the safe side, trust to readiness with which children forget, but, determined to be on the safe side, trust to harrowing with which children forget, but, determined to be not the safe side, trust to harrowing instruction to the meager dimensions that will ensure a specious facility at the written with which children forget, but, determined will ensure a specious facility at the written with the meager dimensions that will ensure a specious facility at the written with the meager dimensions that will ensure a specious facility at the written with the meager dimensions that will ensure a specious facility at the written with the meager dimensions that will ensure a specious facility at the written with the meager dimensions that will ensure a specious facility at the written with the meager dimensions that will ensure a specious facility at the written with the meager dimensions that will ensure a specious facility at the written with the meager dimensions that will ensure a specious facility at the written with the meager dimensions that will ensure a specious facility at the written with the meager dimensions that will ensure a specious facility at the written with the meager dimensions that will ensure a specious facility at the written with the meager dimensions that will ensure a specious facility at the written with the meager dimensions that will ensure a specious facility at the written with the meager dimensions that will ensure a specious facility at the written with the meager dimensions that will ensure a specious facility at the written with the meager dimensions that we written will be a special to the written with the written will be a special to the written with the written will be a special to the written with the written will be a special to the written will be a special to the written with the written will be a special to the written with the written will be a special to the written with the written written with the written written with the written written the written or oral examinations. But a pat statement of principle by a pupil is no stidence of thoroughness of comprehension. To be thoroughly comprehended, the principle must be used in its application to real conditions. These conditions Principle must be experienced in its application to real conditions. may be must be experienced in its application to real output appear the simplest thing in the manifold and various; and, besides, while they may fail of recognition when met by be manifold and various; and, besides, while they may fail of recognition when met with world when read or illustrated in the text, they may fail of recognition when met with in the With in the material world—an experience familiar especially to the teacher of nature and of soin the material world—an experience familiar especially to the teacher of nature today it is recognized as the soundest procedure for and of science. Hence it is that today it is recognized as the soundest procedure for the teacher. Hence it is that today it is recognized as the soundest procedure for the teacher of teacher of the teacher of teac the of science. Hence it is that today it is recognized as desperiences (experiments) to a compatible teacher to lead up through a wide range of contacts and experiences (experiments) to a compatible descent of principle. The business of gathering knowto a comprehensive and lucid statement of principle. The business of gathering know-ledge for use and lucid statement of principle. The business of gathering know-Led comprehensive and lucid statement of principle. The small part of education. Yet for use in later life is, in reality, but a comparatively small part of education fallacy of the there are in later life is, in reality, but a comparatively small part of education. Yet for use in later life is, in reality, but a comparatively of the ancient fallacy of the there are teachers today who have not progressed beyond the ancient fallacy of regarding the school that of furnishing the memory with ready-Rearding the chief business of the school that of furnishing the memory with ready-made knowledge. To ensure the retention of so-called "useful knowledge," they bractise their practise their pupils in conning and repeating individually and simultaneously. to the their pupils in conning and repeating individually valuable facts and pro-baseure a showy output of verbal reproduction of potentially valuable facts and pro-**Cettre** a showy output of verbal reproduction of potential is exhausted and fatigue-point reach compel attention to the task long after interest is exhausted and fatigue-point reach compel attention and arithmetic, we know, for example, as taught beint reached. Reading, spelling, and arithmetic, we know, for example, as taught in unbroken periods of from one to one and a half hours, in the false hope that the will reter to the tis taught him. child will retain better what is taught him.

In conclusion, it remains for us to submit herewith the reports of the various sub-mittees would have them to conclusion, it remains for us to submit herewith the topolts of the value them considered, prefacing them with the explanation that the compilers would have them residered. considered only as marking a stage of progress toward a complete revision of the courses $t_{\rm the d}$ only as marking a stage of progress toward a complete revision of the courses the study only as marking a stage which it had been hoped, might be in a position to a toroughly revise and correlate the schedules presented by the sub-committee, has the far failed to be the schedules presented by the sub-committee, has the far failed to be and correlate the schedules presented by the sub-committee, has the far failed to be and correlate the schedules presented by the sub-committee, has the far failed to be and construction of the schedules presented by the sub-committee, has the schedule of the schedules presented by the sub-committee, has the schedule of bo far failed to find sufficient time and opportunity to do so. It would, however, present the attached drafts of courses as somewhat briefly indicating its views as to the nature of the revision of the revision of the provincial Association either of the revision needed, relying upon the consensus of the Provincial Association either bastain the needed, relying upon the consensus of the Provincial Association either to the revision needed, relying upon the consensus of the Provincial Associated order a sustain the position taken in the general and the sub-committee reports and to order a complet: a completion of the work, or else to put the completion into the hands of a small com-mittee to b. mittee to be appointed by the Association.

READING: GRADES I, II, III.

The initial effort of the teacher is to awaken an interest in stories hidden in books and, through this interest, to command the child's attention to the process of recognising Words as wholes, of making words out of words as wholes, of making words out of separate sounds or letters (phonic synthesis), and of finding out new words by phonic and it is a sound of letters (phonic synthesis). and of finding out new words by phonic analysis.

Children often learn to read quite a little without knowing the letters of the alpha they learn whole sentences or thought with the sentences of the alpha tally bet: they learn whole sentences, or thought-units, from the book, and, incidentally, they perceive word-elements. This foot further that the book is the book incident to book it to book i they perceive word-elements. This fact furnishes the teacher with a hint as to how to begin; i. e., with whole sentences learned in the learned in the learned to begin; i. e., with whole sentences learned as wholes; or, at least, with words learned as wholes. Most of the words that the child will learn during the first year will be acquired by the whole-sentence, or whole-word, or "Chinese" method. The whole sentence method has a special value in the sentence method. acquired by the whole-sentence, or whole-word, or "Chinese" method. The wars sentence method has a special value in its ensuring a measure of expression in reading of work saving the exercise of primary reading from degenerating into a mere naming of words in their order without coherence or meaning

Word-making should, later, accompany this exercise. The teacher may begin analytically, thus: Let her write or print short and regularly spelt words on the board, pronouncing each word slowly and repeatedly so as to bein pronouncing each word slowly and repeatedly, so as to bring out the component sound. For example, the words net, pet, pen, pronounced slowly; then pronounced net, p-e-t, p-e-n. The children should join in this exercise, which may be resorted to daily during the first half of the year.

In the course of five or six weeks a new step may be taken concurrently with the y reading lesson: the words may be taken and taken and taken taken and taken taken taken taken and taken daily reading lesson: the words may be taken apart and their component sounds as of iated with the letters that represent them. The intermediate of the sound intermediate of the sound is a source of the source of iated with the letters that represent them. The letter thus acquires a meaning.

The next step—anywhere during the second or third month—is word making, tructive exercise. The teacher may be in the teacher may be constructive exercise. The teacher may begin by writing or printing slowly and repeated of the board a vowel such as a giving its about edly on the board a vowel such as a, giving its short sound only (and, if she so choose its name). Three or four consonants that will form words with this vowel should similarly be given; e. g., r, t, c, p, and their sounds (their name). larly be given; e. g., r, t, c, p, and their sounds (their names are of no assistance) uter ed very distinctly by teacher and pupils. Words, such as rat, cat, cap, tap, rap, parmay now be put together.

first and second years this process should go on, three or four minutes of each reading lesson being devoted to word-analysis and word-making with the whole gamut of vouch analysis and word-making with the second lesson being devoted to word-analysis and word-making, until, in process of time the whole gamut of vowels and consonants shall have been practised. Excessive use of this exercise may produce a tendency to standard with the standard should be a should be a standard be this exercise may produce a tendency to stammer. At first, only those words should be studied whose spelling perfectly agrees with their struct, only those words should be studied whose spelling perfectly agrees with their pronunciation.

No book is necessary during the first months, as the blackboard better serves up purpose of fixing the attention of the class. Later, when the First Book is taken up the child will be prepared to make good program. the child will be prepared to make good progress with the printed page.

No matter at what stage the pupil may be, the teacher should be unremitting in her effort to keep his imaging power active. He must visualize—that is, mentally see what he reads. Reading is thus made the process and visualize—that is, mentally uterwhat he reads. Reading is thus made the process not merely of recognizing and utter ing letters and sounds but of associating mentel. ing letters and sounds but of associating mentally these sounds or words with the thing they signify. Failure to make this effort will they signify. Failure to make this effort will result in the easy and disastrous habit of 'saying things off' without imaging or under a time to the of 'saying things off' without imaging or understanding them—a condition fatal to the

In analyzing words and in sounding the consonants for word-making, the teacher Id be careful to make the sounds of f k should be careful to make the sounds of f, k, h, p, s, t, x, ch, sh, th (as in think) as mere friction-sounds with no aid or accompaniment from the throat. The safest way is for her to get a trained teacher to give her the correct the should learn, too, is for her to get a trained teacher to give her the correct sounds. She should learn, vir, very carefully, the respective countements of f very carefully, the respective counterparts of f, k, p, s, t, ch, sh, th (as in *think*), $\vec{r}_{s,r}$, $\vec{r}_{s,$ the same friction-sounds accompanied by the throat or vocal chords.

The names of the letters of the alphabet in their regular order ought to be given at Ine names of the letters of the alphabet in their regular order ought to be given by one time during the first or second year, it being remembered that these names do not greatly assist the child in learning new words. The letter-cards with pictures are useful: so card rhythmical divisions of the alphabet. Once the names of the latter are song-rimes and rhythmical divisions of the alphabet. Once the names of the latter are song-rimes and rhythmical divisions of the alphabet. Once the names of spelling, keeping in the letters are known, the teacher can resort to the exercise of spelling, keeping in mind that are known, the teacher can resort to the exercise of spelling, keeping in words only in order that he may be able to write words. mind that one learns to spell words only in order that he may be able to write words.

The literary faculty, it should be remembered, is capable of some development, even in the primary grades. The literary element is not wanting in the Second Reader. thus, the primary grades. The literary element is not wanting in the Second Reader. Thus, the little story on page 5 is a model of conciseness and of wholesome sentiment atfully concealed. There is humor in Bell the Cat, The Dandelion, The Rainbow; imagery in The Wind, page 22, and The Daisies, page 55. In the jingles, pages 1 and there are attract molecurer internet whole and rhythm, so captivating to the juvenile ear and there are at least melody, rime and rhythm, so captivating to the juvenile ear and to such a set of the set of These lessons are not mere pages to be monotonously spelled out and droned out. Leacher was are not mere pages to be monotonously spelled out and droned out. teacher must in each one strive to catch the sentiment and to awaken in the child the proper must in each one strive to catch thus, to the feeling and melody of the piece. proper response to her own feelings and, thus, to the feeling and melody of the piece. If the can find nothing in the reader but words, material for spellings, for grammar Questions, or for dull queries as to Who said so and so? Who did that? How do you that words the higher purpos of reading is unknown to her, and the The fine the second sec

READING: THE HIGHER GRADES.

English, the efforts of the child are of necessity mainly directed toward finding out vords. Words and the pupil must During the first three or four years, so irregular and perplexing is the spelling of lish, the the first three or four years, so irregular and perplexing is the spelling of Words Word-naming. hat be word-naming. Word-naming is, however, not teaching, ght of it fluently and in the permitted to leave a passage until he has expressed the thought of it fluently and the permitted to leave a passage until he has expressed the word-naming effort diminis the partitled to leave a passage until he has expressed word-naming effort dimin-the natural tone of one talking. As time goes on, the word-naming effort dimin-ties, and tral tone of one talking. more and more that of uttering the thoughts of the natural tone of one talking. As time goes on, the word many the thoughts of the text and the pupil's effort becomes more and more that of uttering the thoughts of the text and the text, and of seizing and conveying the emotional element that may inhere.

bewever, that has been emphasized in the treatment of the lower-grade reading should be ignored in the higher grades. The easy and erect posture, the natural poise of the bead the distinct higher grades. The easy and erect posture utterance of vowels, the distinct higher grades. bead the distinct enunciation of consonants, the full and sonorous utterance of vowels, the frank but of enunciation of consonants to maintain these should never be relaxed. the frank but flexible tone of voice, --effort to maintain these should never be relaxed.

A word as to what is meant by good utterance. Of primary importance is the parately of the vowels free from nasality and free from throatiness. Practise the vowels the the vowels free from nasality and one will find he has three voices, a nasal, a gutterately of the vowels free from nasality and one will find he has three voices. Now in the set one). Now in the set one). parately and as found in words, and one will find he has three voices, a nasal, a gut-the or three to the ball-like one. (Cultivate this last one.) Next in imparately and as found in words, and one will find ne has three theory, a mash, a gen-bund or throaty, and a clear, bell-like one. (Cultivate this last one.) Next in im-portance is the preservation of the time-length of vowels. Ignorance or neglect of the inne-value of the preservation of the time-length for the inaudibleness, the undue rapidity, and value of the preservation. English tine value of vowels is largely responsible for the inaudibleness, the undue rapidity, and the generation of the time-length of vowels. And the generation of the inaudibleness, the undue rapidity, the generation of the second and the general meanness of school-reading, recitation, and conversation. The seneral meanness of school-reading, recitation, and the measured by the watch. We seneral meanness of school-reading, recitation, and the measured by the watch. Respect to success the accompany of the seneral time to be the seneral time. Neglect the sederal meanness of source at time-value which can be included by the match. Neglect uttered in speech have each a time-value which can be included by the matching the sustain the vowel tone destroys its carrying power and obscures the accom-tanying to sustain the vowel tone destroys its carrying power and obscures the accom-tanying to sustain the vowel tone destroys its carrying power and obscures the accom-tanying to sustain the vowel tone destroys its carrying power and obscures the accom-tanying to sustain the vowel tone destroys its carrying power and obscures the accom-tanying to sustain the vowel tone destroys its carrying power and obscures the accom-tanying to sustain the vowel tone destroys its carrying power and obscures the accom-tanying to sustain the vowel tone destroys its carrying power and obscures the accom-tanying to sustain the vowel tone destroys its carrying power and obscures the accom-tanying to sustain the vowel tone destroys its carrying power and obscures the accom-tanying to sustain the vowel tone destroys its carrying power and obscures the accom-tanying to sustain the vowel tone destroys its carrying power and obscures the accom-tanying to sustain the vowel tone destroys its carrying power and obscures the accom-tanying to sustain the vowel tone destroys its carrying power and the vowel tone destroys the accom-tanying to sustain the vowel tone destroys its carrying power and the vowel tone destroys the accomplete tone destroys to accomplete tone destroys the accomplete tone destroys to accomplete to accomplete tone destroys to accomplete tone destroys to accomplete tone destroys to accomplete to accomplete tone destroys to accomplete tone destroys reglect "vered in speech have each " is carrying power and observes the accom-panying to sustain the vowel tone destroys its carrying power and observes the accom-wing gons, consonant sounds. To illustrate: The careless, ill-spoken person says "I water ou, 'v th' street'' or "I w's go'n' dow' th' street,'' or, "He w's empt'ng th' the apostronko. the apostrophes.

by the reading of poetry, the there of consonantial sounds and synaples. The power to sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the voice at the end of a line o Sustain the voice at the end of a line or throughout the line is identical with the sustain the voice at the end of a line or throughout the line is identical with the sustain of the long vowels. Take, for example, a stanza from the Sixth Reader:

From lands that bear the maple tree, How swell your voices with the strain

"O rivers, rolling to the sea

Vowels, as well as for distinct utterance of consonantal sounds and syllables. The busicer to super the end of a line or throughout the line is identical with the super to super the super th In the reading of poetry, capital opportunity is afforded for giving due value to els, as well

The Of loyarty and morely. You very long vowels are in the italicized words. Shorter are, rivers, bear, maple, the voices is the italicized words. Shorter are, rivers, bear, maple, the voices is the italicized words. The second local second words in the italicized words. untaught pupil reads the passage so that all the vowels are about equally short, choppy

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and contemptible. His rate of reading is, consequently, far to rapid; and the general effect is wretched. No wonder such pupils with such teaching never get to enjoy poetry.

If a pupil be practised to note the identity in sound and the great difference in length of the vowels in the following pairs, the lesson will come home to him; taske, tame; pot, pod; note, old; not, loll; yet, yell; pert, herd; eg, ell; it, ill; week, ring; folk, fold. Worth while will it be, too, to practise him on words containing very shortunaccented vowels; e. g., notice. spirit, immense, mountain, orange, obey, windwitomorrow, pudding, going. In curcless speech all of these vowels are sounded alise obscure, the effect on the critical ear being that of illiteracy and vulgarity. Then there is the frequently mispronounced vowel in the first syllable of carriage, marriage, and the last syllable of prepare; in pass, glass, path, which should be the same as in more often sounded like again; in mas, which too often sounds like muz; in get, forget, which are corrupted into git, fergit; in can go, often sounded kin go; scared, pronounced skeerd.

Teachers who consider themselves sticklers for pronunciation often slight these familiar and seemingly easy words, devoting their attention solely to the correct placing of the accent of unfamiliar words. Far better to begin by cultivating an ear for one values, accurate enunciation of consonauts, and well-placed, sonorous speech. a speaker has learned to read slowly, to listen to his own voice, to criticize narrowly his own speech, he will not fail of effectiveness in improving his pupils and in developing in them an ambition to excel in purity of utterance. Besides, nothing will do this utterance is correct and refined. It is a most important fact that when a young person leaves the kindly and uncritical environment of his native village to go among strangers, the social position accorded him depends more upon his speech and manners than upon the academic or technical scholarship he may possess.

There are thus two main reasons why reading aloud holds so important a place in school program; viz., its correcting and the the school program; viz., its correcting and refining influence upon the speech, the its stimulus to emotional expression. The latter is its stimulus to emotional expression. The latter is even more important than its former. The reading period is the one par excellence and more important than put The reading period is the one, par excellence, where the teacher and pupil is the interval of emotion: where the teacher and pupil by are oftenest lifted into the realm of emotion; where the purer passions are stirred by tales of kindness, heroism, sacrifice, and suffering on burrer passions are stirred by tales of kindness, heroism, sacrifice, and suffering, or by the genial touch of poest. The human element in literature being the most powerful in its appeal to children, as to older persons, will require less effort to interpret these the as to older persons, will require less effort to interpret than the nature element. however, a large part of our literature, both prose and poetry, is concernd with the inter pretation of nature in its emotional aspects on without a start of the interpretation of nature in its emotional aspects, or, rather, as awaking emotion in manking there is an additional incentive to the teacher to stimulate awaking emotion in manking emotion in mational aspects. there is an additional incentive to the teacher to stimulate in children an emotion at attitude towards nature, towards sky and see mountain the inchildren an emotion and attitude towards nature, towards sky and sea, mountain and stream, sun, moon ne stars, night and day, plant and animal life color form and stream, sun, moon the nature lesson, the lesson in plant and animal life, color, form and sound in nature, your geography, the lesson in drawing -- each efford animal life, in elementary astronomy or physical geography, the lesson in plant and animal life, in elementary astronomy or physical factor in nature-teaching should never be forgotten or neglected; so that, when is school a piece of natural description constitutes the reading letter is on the interest. school a piece of natural description constitutes the reading-lesson, it may be interest ingly and profitably dealt with as picturing aspects of nature by us only imperfect who has not yet developed this feeling for nature be not discouraged. Increased acquaint indeed, a few good nature profitably dealt with a description of nature be not discouraged. ance with nature and with poetic interpretation of nature will supply the deficiency indeed, a few good pieces carefully and should be a supply the deficiency will will will Indeed, a few good pieces carefully and slowly read and carefully imaged with more a miracle with the spiritual vision. For this purpose the most effective, even as by reason of this very familiar they are likely to be the ones least regarded. The prescribed readers have a miracle with they are likely in the prescribed readers have a more the most familiar provement. be the ones least regarded. The prescribed readers have excellent examples in Tenny son's "Brook" and Bryant's "Lines to a Worther in the son excellent examples in Tenny" son's "Brook" and Bryant's "Lines to a Waterfowl."

Once a teacher has come to take delight in emotional expression and well uttered English, she will easily be tempted to follow the practice of all judicious teachers in reading aloud from time to time to her pupils. This will occur not only on the occasion of the regular reading-lesson, where it may be desirable for the teacher to set the twe and sentiment of the prescribed passage, but at other times, and, indeed, when the she may have come across something suitable or entertaining to the pupils, and further she can admit her pupils into her own intellectual life, the more pleasing and purposeful the relations established in school. The practice of reading to pupils has an economic value, too, in its presenting to the latter material which they may work over and reproduce either orally or in writing.

Lastly, let the teacher stimulate among her pupils all the private reading possible. **Set the pupils reading**. Aid them in their choice, letting interest be the chief ground of them as to what they are reading, what book they like the pupils reading. Aid them in their choice, letting interest be the emergeound of recommendation. Question them as to what they are reading, what book they like the child reading "to improve his mind." Be content that he reads, so long as what he reads is not unwhereast. be reads is not unwholesome.

ENGLISH IN THE COMMON SCHOOL GRADES.

It is with somewhat of diffidence that we address the teachers of Nova Scotia on Per subject of "English in the Common School grades," because we believe that ninety control of the subject of the second se the subject of "English in the Common School grades," because we believe that ninety per cent of the success depends on the intelligent industry and influential personnel than a listless one with a flawless method. And, again, let a teacher be ever so energetic show a shrinking reserve, that, like a wall will be hard to scale; a wall most baffling net instructor. She needs a patience of an active nature, that sitteth not on monuto an instructor. She needs a patience of an active nature, that sitteth not on monu-nents nor in the scorner's chair, but a kind that reaches out in that encouraging loving way to which with the scorner's chair, but a second. way to which little folks quickly respond.

Although we address you teachers diffidently, we can say that we are not Putting before you anything carelessly thought out, we are giving you the result of the second strength on our part and, more important, the maturest opinions of advanced successionists

But with all that, you must not expect to hear of, or afterwards yourselves to even minacles; for we must all admit that our English course can only aim at se-ten the ability is the ability in the ability of and write plain English with moderate fluency, inturing the ability to speak, read and write plain English with moderate fluency, inteligence and accuracy.

Before presenting to you, therefore, the curriculum on English, we think some bow not? in the teaching of English to very young pupils. Therefore we would say:-

Let the children be encouraged to talk individually; collective answering and tition will beginner a chance to run to cover under the Let the children be encouraged to talk individually, construction and the fineral replacement of the timid beginner a chance to run to cover under the timid replacement replacement. Reperal reply, and will thus be a hindrance to genuine thought.

Remember that a talkative child, untrained, is the unpopular brat whose questions Remember that a talkative child, untrained, is the unpopulated whose questions we are stated whose questions we are stated whose the talkative child, intelligently trained, is the one whose questions we are stated whose the talkative child, intelligently that the absence of free expression. There is no doubt that the absence of a comparison of the talkative child. tions we are delighted to answer. There is no doubt that the absence of free expression of any of the second tables that reserve aforementioned. Repression in many of our common schools accentuates that reserve aforementioned. Repression of free Speed. the speech means repression of clear thinking.

To remedy this and to bring out the latent speech power in the individual pupil, are should this and to bring out the latent speech power in the individual pupil, by printed instructions to the last possible detail, either in the register of in the unumber implied instructions to the last possible detail, either in the register of in the unumber from which them, of all the branches dealt with in every grade, together with clear and from which the order of procedure. They should be supplied with proper books be brought in the proper subjects and stories, and the school library should have been up to the daily instruction and made a real force. Teachers in the needed aids. They can obtain the proper subjects are also be proved and the school library should have been up to the daily instruction and made a real force. They compared the brought in the proper subjects are also be al be which they can obtain the proper subjects and stories, and the sector invary since a have been which they can obtain the proper subjects and stories, and made a real force. Teachers in have the sector is a part of the daily instruction and made a real force. They sometimes do y cases to supply the needed aids. They sometimes the pought in as a part of the daily instruction and made a tear force. Teachers in the pought in as a part of the daily instruction and made a tear force. Teachers in the hot asses cannot be left to themselves to supply the needed aids. They sometimes have known in the product of the produ They sometimes are a part of the dairy instruction of the needed aids. They sometimes to bot know what to procure nor where to procure, and finally they cannot afford to be raised by the books themselves. The School Boards should supply them, or they can be the books themselves. The School concert. Lists suitable to every grade could the to every school. If the journals from time to time publish such, not half the mailed to them. This is not the fault perhaps of the JOURNAL. But if a list is for not them prices and publishing houses plainly stated, they should have no excuse after the prices and publishing houses plainly stated, they should have no excuse after the prices and publishing houses plainly stated argue aside. Libraries, it balled to them. This is not the fault perhaps of the JOURNAL. But it a survey for not process and publishing houses plainly stated, they should have no excuse in not process and publishing houses plainly stated. Libraries, it is the process of the proces of the proces of the process of the ailed to see them. This is not the fault permit-for not them, prices and publishing houses plainly stated, they should have no excuse is the procuring them, which a vigilant inspector cannot argue aside. Libraries, it dev used? forming all over our provinces, and this is a most encouraging sign; but are sourage this idea, are the readers controlled and guided by the teacher? To en-tron Library backs is recommended especially in Miscellaneous Schools; and it is in the process of the province of the school desk work ton Library books is recommended especially in Miscellaneous Schools; and it is time: recommended especially in Miscellaneous Schools; and it is time: recommended especially in Miscellaneous Schools; and it is time: recommended especially in Miscellaneous Schools; and it is time: recommended especially in Miscellaneous Schools; and it is time: recommended especially in Miscellaneous Schools; and it is time: recommended especially in Miscellaneous Schools; and it is time: recommended especially in Miscellaneous Schools; and it is time: recommended especially in Miscellaneous Schools; and it is time: recommended especially in Miscellaneous Schools; and it is time: recommended especially in Miscellaneous Schools; and it is the tracket devote an hour or half an hour a week in question. for Library books is recommended especially in Miscellaneous Schools, and it is the recommended that the teacher devote an hour or half an hour a week in questioning the read at school and later at home. tioning the readers on what they have read at school and later at home.

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As to suitable reference books for teachers of the lower grades on the subject of English, we would recommend "The Mother Tongue" Books I and II by Arnold and Kittredge" Published by Ginn and Company., Boston Mass. Book I is splendidly adapted for the first three grades on the lines of the curriculum presented here.

Another good work is "Steps in English" Books One and Two, by Morrow McLean 25 Blaisdell. Published by the American Product of and Blaisdell. Published by the American Book Company, N. Y., prices between 23 and 50c. per volume.

Now as regards the introduction of the text book in Grammar, we will qu⁰¹⁸ from "Suggestions for the Consideration of Teachers of the Elementary Schools in England," for 1905. Here we read

"Until a child has learnt to think consecutively and to express his thoughts clearly as no basis for that more formed study of language of the study of the he has no basis for that more formal study of language which is called Grammar, is impossible for a child to learn a language through its Grammar, and this is more true of English than of most languages, for in English than of the more true of English than of most languages, for in English the meaning is for the most part determined by the relation of words to each at part determined by the relation of words to each other in the sentence, not by any change in their forms. Not that grammatical distinctions are altogether beyond with comprehension of scholars in the lower classes, or that they may not be employed with some advantage even there by a skilful teacher. But the may not be employed terms some advantage even there by a skilful teacher. But the use of grammatical terms distracts the attention of teachers and numils alite for the use of grammatical in distracts the attention of teachers and pupils alike from what at this stage is all important, viz., practice in the "use" of good English, and the comparatively easy mechanical character of a grammar lesson is a tampatite. mechanical character of a grammar lesson is a temptation to the weaker teacher.

"The aim of Grammar is to make evident the conditions of clear expression; but end can never be reached by containing of the The attention must always this end can never be reached by centering on the word. be fixed upon the word, the phrase, or the clause, not in itself, but as it occurs in the sentence; in other words, it is the function of the sentence; in other words, it is the function of the word, the phrase, or the clause, which is grammatically important. When therefore word, the phrase, or the clause, which is grammatically important. When, therefore, a scholar uses ambiguous expression in the composition lesson the fact should be waited by a scholar uses ambiguous expression of clear in the composition lesson the fact should be pointed out and the conditions of clear expression should be explained." expression should be explained."

Further on, analysis is encouraged in connection with the reading lessons in the words:---

"Analysis in fact supplies a new set of formulæ under which the meaning of book uage (and especially of the language of the bighter which the meaning of the bighter which the mean the meaning of the bighter which the bighter which the bighter which the bighter whi language (and especially of the language of the higher poetry) can be concisely when cussed." "The minuti of Parsing," it states, "should be completely omitted. the relation of a chief word, or of a phrase, or of a whole closer." the relation of a chief word, or of a phrase, or of a whole clause, to the rest of the sentence has once been established, it is unnecessary to proceed first, to the rest of the sentence has once been established, it is unnecessary to proceed further '

The above remarks can be severely applied to our present text, owing to the reasons and the ambiguity arising from the word present text, owing The above reasons and the ambiguity arising from the wording of its definitions. for instance, the definitions of case and mood, where the pupil is told in explicit work ing that they are changes in the form of word. Dut the pupil is told in explicit by the ing that they are changes in the form of words. But these rules are falsified by the similar forms used for the nominative and objective cases of nouns. These cases are in finitive and the art is and the set of the art is the set of the art is the set of the set o due to a change in form, but to a change in order. The form "drive" can be able finitive and an imperative as well as a subjunctive or indicative. "Were" is able biguities such as these tend to confound the beginner to much and imperative. biguities such as these tend to confound the beginner to such an extent, if he compare and thinks, as he should be taught to do the transfer to such an extent, if he compare and thinks, as he should be taught to do, that he had better leave the book alone.

Speech conforms to natural laws which, when tabulated, comprise a Grammar, which are the more signs of proper thought are the common tabulated. They are the mere signs of proper thought expressions and are noted as the common properties of speech. The laws of environment as and are noted as the common for the laws of environment as a set of the set of properties of speech. The laws of environment and necessity are the powerful factors of speech; hence we must begin at the bottom and necessity are the powerful factors. of speech; hence we must begin at the bottom and work upward with the growing generations, guide and instruct them on the basis of natural grammatical laws, but we cannot dictate or command them to speak by rules in cannot dictate or command them to speak by rules in accordance with any laws.

Again, we need more practice in the clear enunc ation of unaccented syllables and endletters such as "tion", "ment." "ing", e," "y", and "s." Pupils who are all voice to develop a faculty for rapid speaking abound in these errors. The volume of the is is also wanting with many, due to lack of training is also wanting with many, due to lack of training and timidity. Constant practice is also the remedy here. I was informed a few weeks ago by one of our most experience kindergarten teachers that she had accomplished excellent results in the clear enumber.

tion of end syllables and letters by devoting a special time every week to this one feature. Teachers similables and letters by devoting with a dialect, to compromise as far as $r_{eachers also}^{va}$ of end syllables and letters by devoting a special time every week to this one return to the special time every week to this one return to the special time every week to this one return to the special time every week to this one return to the special time every week to this one return to the special time every week to this one return to the special time every week to this one return to the special time every week to this one return to the special time every week to this one return to the special time every week to this one return to the special time every week to this one return to the special time every week to this one return to the special time every week to this one return to the special time every week to this one return to the special time every week to this one return to the special time every week to this one return to the special time every week to this one return to the special time every week to the special time powers also should be instructed, in meeting with a dialect, to compromise and not to any want of the second secon by want of intelligence.

The instructions of the Education Department should be strictly carried out as to the memorizing of prose and poetical selections.

Poetry reveals the emotional side of life. In many cases it is the great vehicle of Poetry reveals the emotional side of life. In many cases it is the great venture in a something in our spiritual or imaginative expression. There is a something in our spiritual or imaginative expression immediately to the magic sound of metre and rhythm the it will a state that responds immediately to the magic sound of metre and rhythm then it will respond to nothing else. Let not teachers therefore ever forgo exercises is poetic maintain the maintain the child cannot or does not understand the poetic recitation on the ground that the child cannot or does not understand the peen; the existing of the means an added mystery and therefore poen; the very "not understanding" often means an added mystery and therefore added very "not understanding will come later and with understanding a added attraction. Understanding will come later and with understanding a memory envice it is a specific to the second structure of beautiful thoughts. memory enriched with a store of beautiful thoughts.

LANGUAGE WORK.

GRADE I.

Talks on familiar objects between Teacher and Pupil. Picture stories orally. Teaching of alphabetical sounds by imitation and the introduction of the corresponding models with the backing of alphabetical sounds by initiation and the introduction of the corresponding to the back of the b Thols with special emphasis on such letters as b, d, f, q, k, th and v. Practice in the production of the contesponding of alphabetical sounds by imitation and the introduction of the contesponding between the production of the contesponding sentences from words in Reading lessons. Free-Whole's of alphabetical sounds by inner the production of speech encouraged in all oral lessons by daily practice, not only on accented in all oral lessons by daily practice, not only on accented in all oral lessons by daily practice. This to be followed in all crades. Reader No. 1. Spelling, oral and written. Brades. Reader No. I. Spelling, oral and written.

GRADE II.

Picture stories orally. Faulty pronunciation corrected by practice in free ex-ten indistinctly or improperly pronounced. Teacher to practice reserved and timid before the class, before this habit of shrinking reserve becomes fixed. Introduction the teacher, who shall insist on the teacher. where the class, before this habit of shrinking reserve becomes intern. Introduction of unfamiliar subjects in a series of talks prepared by the teacher, who shall insist on the repetition by the class. Writing of longer sentences. Memorizing of simple passages of poetry suitable to the age of pupils. Reader No. II. Spelling, oral and written.

GRADE III.

Picture stories more complex than in previous Grades. Sentences formed about ber houng. The use of the period and interrogation point. The same daily correc-log of indistinct and improper pronunciation. Memorizing of a few passages of every even when not fully understood—its mystery often lending an added charm.

GRADE IV.

Written and oral stories. Short compositions on Nature work: as water, dew, by the teacher. Daily drill in voice culture, keeping in view the point of easy conver-spelling, written and voice volume. Nouns and verbs. Reader Grade IV. Written and oral stories. Short compositions on Nature work: as water, dew, and hail oral stories. based first on models, in children's language, prepared Spelling, written and oral.

Introduction of other books from the Library for silent reading, especially in cellaneous of other books from the Library for silent reading and encouraging a taste his ellaneous schools, thus giving more practice in reading and encouraging a taste West-culture schools, the foundations of correct taste. Such books as Alice in in self-solution of other poons non increating and encouraging in the self-solution of other poons increating and encouraging in the solution of correct taste. Such books as Alice in wonderland, Roberts' Animal Stories.

GRADE V.

Oral and written reproductions of narratives and descriptions, as, events of grovious day, a holiday, a party or a concert. Nature stories of birds and animals, subries filled in from outline prepared by the barries of birds and animals. Noun, verb, sub ries filled in from outline prepared by teacher. Letters and bills. ject, predicate, adverb and adjective pointed out, their uses explained simply as the occur in written work or in reading leasance. occur in written work or in reading lessons,—parsing being thus a logical assistant on the understanding of the uses of the various parts of speech. Comma and quotation marks. Written work examined and corrected by the parts of speech. Written work examined and corrected by the pupils under the supervision of the Area and to correcting of provident to the supervision of the super As an aid to correcting of pronunciation and expression, the introduction in the hands of one pupil the rest with hands of one pupil the Teacher. of the reader in the hands of one pupil, the rest with books turned down; after the reading of each pupil, mistakes to be accounted books turned down; after the reading of each pupil, mistakes to be accounted books turned down; after the second books turned down; after turned reading of each pupil, mistakes to be corrected by the listening pupils. Memorizing selections from prose and poetry. Select Reading selections from prose and poetry. Select Reading as mentioned above; Robinson Crusoe, selections from Thompson Seton Reading () Crusoe, selections from Thompson-Seton. Reader Grade V. Spellings, oral and written.

GRADE VI.

Model narrations and descriptions reproduced and imitated in original work and rs. Oral and written compositions based on outline intermediate letters. Oral and written compositions based on outlines made by the pupils under the direction of the teacher. Nature connection on the teacher. the direction of the teacher. Nature composition on plants. Drill on the above work corrected. Rules for punctuation reviewed corrected. Rules for punctuation reviewed. Analysis and synthesis of simple surtences. Enlargements and extensions explained in the surface of simple surface. tences. Enlargements and extensions explained. Phrases and sumple studied Transitive and intransitive verbs pointed out and their difference explained, followed by a selection of the same from Reader and suitable text as "Lessons on English." Reader No. VI. Spelling, oral and written Spelling, oral and written.

Pyle: Silent reading from appropriate Library books-Alcott: Little Women. Some Merry Adventures of Robin Hood. Introduction of the Dictionary for reference. and natural expression and manner encouraged. Declamation and posturing discour-

GRADE VII.

Let Written, followed by oral, descriptions. Narrations and characterizations. ters based on reading and experience. Written invitations and characterizations. Special emphasis on correction of same Nature and business applications Special emphasis on correction of same. Nature composition on minerals, of puncand analysis of simple sentences. Application of Rules of Syntax. Review of put tuation. Text book in Grammar introduced to aid and Syntax. Review of Spectrum tuation. Text book in Grammar introduced to aid review. Reader No. VII. Grand ling, oral and written. Silent reading from books in Library.—Hawthorne's Grand father's Chair; Dickens' Christmas Carol. Dictionary for reference encouraged. Memorizing of selected passages in press and matter Memorizing of selected passages in prose and poetry.

GRADE VIII.

Written and oral descriptions, narrations, characterizations and expositions Written work to be examined by teacher and rewritten by pupil until correct. digm of vert. Parsing and analysis of an rewritten by pupil until corrects digm of verb. Parsing and analysis of complex sentences. Parsing of words as Ger occur in sentences—simply showing their relation to the parsing of words as Ger eral review of parts of speech and punctuation to other words in sentences. Farsing of words of ger book for reference and practice of examples. Practice in writing business for Silent reading from Library books and the loaning of the more in writing business freed-ings to be encouraged in the sentence of the more in the sentence of the sentence o ings to be encouraged by leading questions on the same for home reading. Read once a week, from books such as Stevenson's Treasure Island, Irving's Tales of a Tar-eller. Reader No. VIII. Spelling, oral and written and properties of the same by teacher on an average of the same by teacher on a same by teacher on a same by teacher on an average of the same by teacher on a same by teacher Silent reading from Library books and the loaning of the same for home reading, eller. Reader No. VIII. Spelling, oral and written, or from some prescribed text.

The predominance of written or practice work as submitted by the Sub-contract in this plan may satisfy to some extern work as submitted by the Sub-contract in the mittee in this plan may satisfy to some extent that general and true complaint, with boys leave the Common and High Schools indifferent or poor writers. Writing is most a matter of practice. We do not claim that and the poor writer nevel is recommended most a matter of practice. We do not claim that anything very novel is recommended here, or anything not already mentioned by that anything very novel is recommended here, or anything not already mentioned by the Education Department, but that we be a subject of the putting forth of more than the education becattered and subject of the have recommended the putting forth of more strenuous efforts to see that all subjects in the course are placed prominently before the in the course are placed prominently before the eyes of the teacher, so that none may

have an excuse for ignorance of the same. That the practice of tongue and pen be as constant end always under the guidance of the teacher; that the constant as time shall permit, and always under the guidance of the teacher; that the library has time shall permit, and always under the guidance of the teacher; that the And we believe that such a course as outlined here, vigorously carried out by energetic here with the first such a course as outlined here, vigorously carried out by energetic here with the first such a course as outlined here, vigorously carried out by energetic here with the first such a course as outlined here, vigorously carried out by energetic here with the first such a course as outlined here, vigorously carried out by energetic here with the first such a course as outlined here, vigorously carried out by energetic here with the first such a course as outlined here, vigorously carried out by energetic here a such a course as outlined here, vigorously carried out by energetic here a such a course as outlined here. this important such a course as outlined here, vigorously curried out by current out by the schere will justify itself by a general improvement among our Nova Scotia pupils in School curriculum. this important part of our School curriculum.

W. A. CREELMAN,

Chairman Sub-Committee.

follows:-The Sub-Committee on Drawing and Constructive Exercises, begs to report as w_8 .

The aims of the school course in drawing are, briefly :---

- (a) To develop accuracy and fullness of observation of material things.
- (b) To render the pupil capable of representing in the universal language of the drawal. draughtsman his images of material things, and his conceptions of form, color, and combination.
- (c) To develop capacity for enjoyment of what is beautiful in nature, art, and craftsmanship.

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> The fashioning of artists is no more the function of the school than is the making of s. But to enlarge the child's **Poets**. But failure in efficiency in the school that does nothing to enlarge the child's sense of heart in virtual composition, is of the same kind as would result But failure in efficiency in the school that does not us kind as would result if the school that goes of beauty of form, color, and composition, is of the same kind as would result in the school that the school that does not us the school that does not the school that do it the school made no effort to develop the child's sense of beauty in virtuous conduct, in literary formation of the school made no effort to develop the child's sense of beauty in virtuous conduct, in literary form and substance, or in music.

There are considerations of pure utility, also. As an adult, the child will later thoses may not call upon him for skill in drawing; but the chances are that either certain on the set of the set and, whether or no, it is almost absolutely whoses work to do in the real work. In drawing; but the charten are that the the big vocation or no, it is almost absolutely certain that or his avocations will do so; and, whether or no, it is almost absolutely or color will at important junctures the ability to express himself through line, form, or color will prove of considerable value to him.

teaching drawing; for neither the pictorial, decorative, or constructive power is likely to develope is it; for neither the stimulus and the instruction of the school. True, The school has, it must be acknowledged, a highly important duty in respect of hing draw interview decorative, or constructive power is likely. the develope in the child without the stimulus and the instruction of the school. True, there may be the child without the stimulus and the instruction of the school. True, there may be the child without the stimulus and the instruction of the school. there may be the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and assistance of a home in which forms of graphic and the stimulus and the stimulus and assistance of a home in which forms of graphic and the stimulus and the stimul dere may be the stimulus and assistance of a home in which to be be stimulus and assistance of a home in which the home, in its efforts at the or and another the furnishing, dress, and capacity for enjoyment stands to be and another the furnishing, dress, and capacity for enjoyment stands the common-school to develop simple, correct tastes.

hize frankly three forms of activity in drawing: From the first grades of the school it will be convenient for the teacher to recog-frankly a first grades of the school it will be convenient for the teacher to recog-

- (1) Pictorial drawing,

- (2) Decorative drawing and designing,
- (3) Constructive work,

the last mentioned growing more and more conspicuous in utility as the child advances to the the mentioned growing more and more conspicuous in utility as the child advances as are intended to the the mentioned growing more and more conspicuous in utility as the child advances as a second through the grades. Under pictorial drawing come all such exercises as are intended to the grades. Under pictorial drawing come all such exercises as are intended to the grades. Under pictorial drawing come all such exercises from the object, when the grades. Under pictorial drawing come all such exercises as are mountained to the grades. Under pictorial drawing come all such exercises as are mountained to the simulative and reproductive powers, bigging in the second particle and memory drawing; drawing from the object, the means of free expression for the child's imaginative and reproductive points, prising illustrative, imaginative, and memory drawing; drawing from the object, the reader, in geography, history and nature, prompt downers, plants, and biother in the expression for the owner drawing; drawing from the owner, the biother study. The lessons in the reader, in geography, history and nature, prompt has pupil to the the biother weapons, buildings, costumes, flowers, plants, anithe pupil to depict scene, incident, weapons, buildings, costumes, flowers, plants, ani-be, natural forth scene, incident, weapons, buildings, costumes, flowers, plants, ani-be, natural forth scene, incident, and the interest of the moment may profitably in magination, or from buildings, costumes, flowers, plants, main buildings, costumes, flowers, plants, mains, and the interest of the moment may profitably turned to features of the earth; and the interest of the moment, imagination, or from be turned to account by having the pupils draw from memory, imagination, or from

the object that which has just passed under view. This form of drawing, too, associates itself with the environment and activities of the child; his games, sports, and recreations,—playing ball, snowballing, fishing,—the occupations of the home, of the farm, forest, mine and sea, all of which furnish subjects susceptible of pictorial treatment, varying from the amazingly crude efforts of the infant class, to the thoughtful drawings of the upper grades.

Under decorative come exercises in studying, copying, and fashioning units for harmonic repetition; designs for borders of pages, for book-covers, for Christmas and Easter cards, for blotters, for wall-papers, for print-cottons; combination of colors and tones for decorative purposes in mats, carpets, fabrics, dress.

Under constructive come the paper-cutting and folding, card-cutting, clay-modeling of the earlier grades, developing into the more purely mathematical drawing and corstruction-work of the upper four grades. It comprises plotting to scale, the solution of problems in constructive geometry, the drawing of plans of the school-house and school-district; plans and elevations of objects convenient, to be worked out in card, paper, or wood; the drawing of maps, designing of patterns, pattern-cutting in paper, in association with the sewing lessons for girls.

In no school should it be permitted to neglect exercises in the construction of objects appropriate to the interests and the ability of the pupil. To express form in terms of material substance such as paper, card, wood, is to bring the pupil into relation with material things, and with the transformation of raw material into useful and beautiful forms. No activity of the school will contribute more to his understanding that education comprises not merely a knowledge about materials but a power to manipulate

It is important for teachers to recognize that children's early efforts in drawing are excessively crude. Not only is the eye unpractised in determination of form and proportion, but the hand of the child is at first a mere fist, capable only of rudimentary whole-arm movements. Accuracy, neatness, correct proportion are out of the question and the teacher must be content with maintaining the native interest of the child depicting things, utilizing this interest to encourage him to observe with more and more accuracy. During this stage the pointed pencil is a discouraging medium, and effective medium of expression. Later, after the child has acquired some readiness in mass-drawing, the pencil becomes useful as a means of acquiring exactness and accurary. The flat color-washes and the colored crayons, moreover, permit experiment and ir struction in colors, tones, and their relations.

So far as a revision of the course of study in drawing is concerned, your sub-conmittee would recommend that with some additional detail of exercises and of treatment, the "Alternative Common School Course" published in the "JOURNAL OF EDUCATION, be accepted as meeting the needs of the teacher and the school. Hitherto, drawing has been more extensively detailed in the printed program than have any of the other subjects. If it has failed in effectiveness this is largely due to the enforced of improving themselves through the aid of such a text-book as that at present recommended to them by the Education Department, (Augsburg's "Drawing-Course").

It remains for us to indicate the nature and extent of the additions we propose to the present course,—additions, not to the requirements of the various grades, but for the definiteness of these requirements and to the illustrative material suggested of the grades, or for each group of two grades. To many teachers the practices recommended for the earlier grades—stick-laying, clay-modeling, paper folding and cutting practised. The Syllabus for the elementary schools of New York State devotes the four years of school, and three pages to a description of appropriate manual tasks in eard, wood and iron, for the four higher grades; also, a page of illustrations of handwork, (see page 139). We would recommend similar treatment in our printed course, and would add a word to those teachers that find the time-table already pretty full, to the effect of procuring the execution of manual tasks at the pupil's home.

Constructive drawing, especially of the objects which are to be worked out in materials, should be illustrated by a few diagrams showing the nature of plan and gevation, should be illustrated by a few diagrams deconventional lines; (compare $\mathbf{\hat{F}}_{\mathbf{Y}}^{\text{constants}}$, should be illustrated by a few diagrams showing the latentiates; (compare $\mathbf{\hat{F}}_{\mathbf{Y}}$, $\mathbf{\hat{F}}_{\mathbf{$ Y. Syllabus, pp. 123, 126, 128, 130); and exercises in constructive drawing ought to progressive stages of child life. Where sewing is taught to be suggested, suitable to progressive stages of child life. Where sewing is taught in the higher grades, it may be made a sufficient manual exercise for girls, as outlined progressively in the English "Suggestions," pages 136-7.

In pictorial drawing, some explanation of "mass" drawing, of "flat" colors and s, and the line of the line of the head build the making of ink t_{0hes} , and their uses in the earlier grades, of the use of the brush and the making of ink of anis. $r_{\rm aniline}^{\rm as, and}$ their uses in the earlier grades, of the use of the brush and the maximum of aniline washes, of the introduction and development of principles of perspective through the washes, of the introduction because should be given, unless, indeed, it is seen through the drawing of appropriate objects, should be given, unless, indeed, it is seen to that the teacher is provided with a proper instruction book. It might be beneficial to add a parameter of the teacher is provided with a proper instruction book. to add a page or two of typical primary and intermediate grade drawings, as a standard of comparise or two of typical primary and encel, brush and erayon. The best deof comparison, and as illustrating the use of pencil, brush and crayon. The best de-tailed comparison, and as illustrating the drawing examined by us, is that of the Massatailed course in pictorial and decorative drawing examined by us, is that of the Massa-dusett's public schools, which divides the work into Primary, Intermediate, and Upper Grade, each is schools, which divides the work into a school of the seasons, their oc-Grade, each schedule of work proceeding largely in the order of the seasons, their ocupations, their flowers, fruits, birds, animals, and varying landscape.

Decorative drawing and simple designing ought to form a separate and additional gory of category of exercise in the upper four grades, and, unless it is intended to have the teacher of exercise in the upper four grades, and, unless it is intended to have the teacher of exercise in the upper four grades. teacher provided with a teacher's hand book in drawing, the printed course should contain and design as well as a few illustrations of contain suggested exercises in decoration and design as well as a few illustrations of using and gested exercises in decorationalized forms of leaves, flowers, fruits, etc. units and repetitions, borders, conventionalized forms of leaves, flowers, fruits, etc.

 I_n conclusion we have to say that everything reasonable should be done in the printed course to provide the untrained teacher with self-helps. It is to her lack of instruction that we ascribe the present neglect of drawing **Nativation** to provide the untrained teacher with schuleppendix and construction rather than to disinclination that we ascribe the present neglect of drawing and construction rather than to disinclination in every district who need only a few lints and construction; and there are teachers in every district who need only a few hints construction; and there are teachers in every district who need only a few hints waveyed by the purpose of this construction; and there are teachers in every district to grasp the purpose of this work and to letter-press or by illustration, to enable them to grasp the purpose of this Work and to master its execution

GEOGRAPHY.

in the first three grades the term geography need not be different to be an interview. In the sensible contact with the most, the teacher should endeavor to bring the pupil into sensible contact the most, the teacher should endeavor to bring the pupil into sensible contact the most of earth, sky, sea, plants, animals, and mankind, the most of earth, sky, sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and mankind, the most of earth sky sea, plants, animals, and the most of earth sky sea, plants, animals, and the most of earth sky sea, plants, animals, and the most of earth sky sea, plants, animals, and the most of earth sky sea, plants, animals, and the most of earth sky sea, plants, animals, and the most of earth sky sea, plants, animals, and the most of earth sky sea, plants, animals, and the most of earth sky sea, plants, animals, and the most of earth sky sea, plants, animals, and the most of earth sky sea, plants, animals, and the most of earth sky sea, plants, animals, and the most of earth sky sea, plants, animals, and the most of earth sky sea, plants, animals, animals, and the In the first three grades the term geography need not be employed. During that bowards three grades the term geography need not be pupil into sensible contact with the most conspicuous phenomena of earth, sky, sea, plants, animals, and mankind, detailed treat conspicuous phenomena of earth, sky, sea, plants, animals, and mankind, betailed treat conspicuous phenomena of earth, sky, sea, plants, animals, and mankind, betailed treat the second sec detailed most conspicuous phenomena of earth, sky, sea, plants, and have a structure, detailed in the Nature-Study source, treatment of many of which phenomena is indicated in the Nature-Study the elements of many of which phenomena is indicated in the sense-experiences obtained by the child in these contacts with nature; of many elements of physical forces and changes; of many elements of participation, form, size; of physical forces and changes; of many elements of the products of nature and of the products o the elementary conceptions of position, form, size; of physical forces and changes; of the alementary conceptions of position, form, size; of physical forces and changes; of cut, as an intermediate of soil and of the products of nature and of han as an industrial and social element; of soil and of the products of nature and of cultivation industrial and social element; of soil and, brook, slope, forest, constitute a near as an industrial and social element; of soil and brook, slope, forest, constitute a near as a social element; of soil and of the products of nature and of the social element; of soil and of the products of nature and of the social element; of soil and of the products of nature and of the social element; of soil and of the products of nature and of the social element; of soil and of the products of nature and of the social element; of soil and of the products of nature and of the social element; of soil and of the products of nature and of the social element; of soil and of the products of nature and of the social element; of soil and of the products of nature and of the social element; of soil and of the products of nature and of the social element; of soil and of the products of the products of the social element; of soil and of the products of the products of the social element; of soil and of the products of the products of the social element; of soil and of the products of the products of the social element; of soil and of the products of the products of the social element; of soil and of the products of the p cultivation; of color, landscape, clouds, hill, pond, brook, slope, forest, constitute a form the approximation of interpretation of what he later will read in text-book and elsewhere. They had the approximation of what he later will read in text-book and elsewhere. They had the approximation of what he later will read in text-book and elsewhere. totum of interpretation of what he later will read in text-book and new facts obtained from the apperceiving masses into which new experiences and new facts obtained from teading will act the apperceiving masses into themselves. reading will seek to incorporate themselves.

periences for the child's mind to work upon. No special effort need be made to relate these experiences for the child's mind to work upon. No special effort need be made to relate active experiences to the child's mind to work upon. In other words, during the first three years, the teacher's task is to provide exthese es for the child's mind to work upon. No special child's sense-organs be kept active upon the child's mind to work upon. It is enough that the child's sense-organs be kept these upon the child's mind to work upon. It is enough that from time to time his power of these upon the sense to one another. It is enough that from time to time his power of these upon the sense to one another. the experiences to one another. It is enough that the time to time his power of the calling thing thing thing the simplest earth phenomena, and that from time to time his power of the based by the simplest earth phenomena. This first step in this latter exercise is the upon the simplest earth phenomena, and that from this to this in point of the simplest earth phenomena, and that from the simplest earth phenomena, and that have been shared by the pupils is a by the seen and heard be exercised. This first step in this latter exercise is a simple the seen and heard be exercised. This first step in this latter exercise is a simple the seen and heard be exercised. This first step in this latter exercise is a simple the seen and heard be exercised. hading seen and heard be exercised. This instruction and by the pupils as well as by the teacher's recalling nature-experiences that have been shared by the pupils being as by the teacher's recalling nature-experiences that have been shared by the pupils being as by the teacher's recalling nature-experiences that have been shared by the pupils being as by the teacher's recalling nature-experiences that have been shared by the pupils being as by the teacher's recalling nature-experiences that have been shared by the pupils being as by the teacher's recalling nature experiences that have been shared by the pupils being as by the teacher's recalling nature experiences that have been shared by the pupils being as by the teacher's recalling nature experiences that have been shared by the pupils being as by the teacher's recalling nature experiences that have been shared by the pupils being as by the teacher's recalling nature experiences that have been shared by the pupils being as by the teacher's recalling nature experiences that have been shared by the pupils being as by the teacher's recalling nature experiences that have been shared by the pupils being as by the teacher's recalling nature experiences that have been shared by the pupils being as by the teacher's recalling nature experiences that have been shared by the pupils being as by the teacher's recalling nature experiences that have been shared by the pupils being as by the teacher's recalling nature experiences that have been shared by the pupils being as by the teacher's recalling nature experiences that have been shared by the pupils being as by the teacher's recalling nature experiences that have been shared by the pupils being as by the teacher's recalling nature experiences that have been shared by the pupils the pupils as by the teacher's recalling nature experiences that have been shared by the pupils the pupils as by the teacher's recalling nature experiences that have been shared by the pupils the pupils as by the pupils as the pupils as the pup well as by her. The pupils may then be induced to join in the description, the net by the teacher's recalling nature-experiences that have the description, the net result of which is the pupils may then be induced to join in the description, the net tempt of which is the pupils may then be induced to join in the description in the description is the pupils of which is the pupils of the mental image which otherwise might have real as by her. The pupils may then be induced to join in the description, one terms which will be the sharpening of the mental image which otherwise might have the sharpening object of the sharpening of the mental image which otherwise might have remained obscure or become obliterated.

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This power of re-presenting mental images is a mental function of the highest ortance of re-presenting mental images is the basis of imagination. Without This power of re-presenting mental images is a mental function of the instance, it portance. It is one of the forms of memory and is the basis of imagination. Without of memory has mental content: they degenerate into a memorizing of mere words.

here, a the fourth year, some attempt may be made to relate earth-pnenomena, be used by the study of geography proper begins. Not that a text-book is to that does not be the study of geography proper begins. What is intended is the text of by the study of geography proper begins. Not that a text-book is to that by the study of geography proper begins. Not that a text-book is to that by the study of geography proper begins. Not that a text-book is to that by the study of geography proper begins. Not that a text-book is to that by the study of geography proper begins. Not that a text-book is to that by the study of geography proper begins. Not that a text-book is to that by the study of geography proper begins. Not that a text-book is to the study of geography proper begins. Not that a text-book is to the study of geography proper begins. Not that a text-book is to the study of geography proper begins. Not that a text-book is to the study of geography proper begins. Not that a text-book is to the study of geography proper begins. Not that a text-book is to the study of geography proper begins. Not that a text-book is to the study of geography proper begins. Not that a text-book is to the study of geography proper begins. In the fourth year, some attempt may be made to relate earth-phenomena; and e, accordingly, its of geography proper begins. Not that a text-book is to be used by the pupil. That is neither necessary nor desirable. What is intended is thereby the pupil. that merely the pupil. That is neither necessary nor desirable. What is internet in the pupil. That is neither necessary nor desirable. What is internet is internet is internet in the particular hills, brooks, slopes, riverbeds, etc., should come to be thought

of, first, as typical of hills, brooks, etc., in general, and, secondly, as related in position, direction size and support function with the second direction, size, and causal function. The relation between brook and brooklet or ditent is to be thought of as twoiged of successful and brooklet or direction. is to be thought of as typical of rivers and their tributaries. So of lakes and swamp and basins: of snow main the cloude their tributaries. and basins; of snow, rain, the clouds that discharge them; the slopes that shed then, the ditches and brooks that reasons that the ditches and brooks that receive them.

The study of causal relations ought not to be carried too far, especially in the realmand of natural phenomena. Much more interesting to the child, and, consequently, and educative, is the observation of human matterial to the child, and, consequently, and educative, is the observation of human activities in relation to the earth and sea and their products. Home geography indext Home geography, indeed, may well begin with a view of the industrie thood. Everywhere in Nova Section site of the neighborhood. Everywhere in Nova Scotia either farming or gardening is practised. In it the teacher has available a type of human activity occasioned by the needs of mankind. Other industries are practised in the directed directed needs of mankind. Other industries are practised in the district, all of them directed to the end of supplying man's wants. Mankind must a district, all of them directed in the district and the distribution All men and to the end of supplying man's wants. Mankind must work, or perish. All men women do not pursue the same calling. Diversity of industry necessitates exchange of even of products—trade or commerce. A detailed survey of the industrial activities of even the humblest school-section will provide material for the humblest school-section will provide material for many thought-provoking lessons No of surpassing interest to children—lessons to which each child can contribute child little measure of the value will accrue, in fact, from this very participation of the child in the radiant uncertained conversation more than the very participation of the child in the radiant, unrestrained conversation upon the farming, dairying, gardening, charding, cider and vinegar-making, canning, processing, for the target target the target target the target t charding, eider and vinegar-making, canning, preserving, fishing, curing, boat-building, mining, quarrying, lumbering, sawing, wood working, fishing, curing, boat-building, Then mining, quarrying, lumbering, sawing, wood-working, tanning, shoe-making, there are the transportation facilities by road, river, sail, sea; the means of communication by post, telegraph, telephone: the eburches action by post, telegraph, telephone: the eburches action by post, telegraph, telephone the eburches action by post telephone te cation by post, telegraph, telephone; the churches, schools, societies, the country-torn or nearest market-town and its relation to the market by the country-torn

The mention of towns, etc., that lie immediately beyond the horizon suggests another topic of the fourth year the cutor much be still another topic of the fourth year—the outer world and our relations to it, in trade race, language, custom. The importance of such as the indirace, language, custom. The importance of such a method of approach as that inder a cated in the work of the first three grades will now be manifest. We have arrived at point where we must deal with places, people and process of the tract part be point where we must deal with places, people, and processes that lie for the most part be yond the vision and the actual experience of the dealest hat lie for the most part of yond the vision and the actual experience of the child. Facts are to be presented facts relating to material things: not merely statement. And how

The presentation of distant places, people, institutions, industries calls for mental trees composed of simple elements—just such elements pictures composed of simple elements—just such elements as those treated in the pre-ceding grades. Through contact and experience and there as those treated in fination Through contact and experience and through the exercise of imagination of child has already obtained a body of contact and a body of contact and a body of contact and the exercise of imagination of child has already obtained a body of contact and the exercise of imagination of the exercise of the exer and recall, the child has already obtained a body of geographical notions capable of combining to produce fairly definite and complete mental methods in the same short is the same short in the same short in the same short is the combining to produce fairly definite and complete mental pictures of other places not unlike ours and even of far distant lands and peoples. To illustrate, the study of British Columbia calls for the visualizing of a large and varied wards to further mount tains door will British Columbia calls for the visualizing of a large and varied panorama of lofty monetaries, deep valleys, swift-flowing rivers: of forested elevent elevent elevent of the visualizing of a large and varied panorama of lofty monetaries and varied panorama of lotty monetaries and varied elevent eleven tains, deep valleys, swift-flowing rivers; of forested slopes, and foot-hills overtopped by bare, rocky summits; of lumber and mining comparest of the by bare, rocky summits; of lumber and mining camps; of lakes, of valley and upland farms, ranches, orchards; of widely seattered towns and villages; of sea coast, boy harbors, promontories and islands; of industries and activities is that those of the harbors, promontories and islands; of industries and activities similar to those four own province; of people of our own race, language automatic interview of the set view of this varied scene is capable of being constructed by the child out of fundamental ideas obtained either at first-hand, or through pictures, or through the medium of both when illumined by the imagination of the teacher

No amount of text-book reading can be depended upon to effect this result, e upon that agency is discussionities be depended upon to effect this result en From the book a child will easily enough one of the chief learn to say, for example, that lumbering is one of the chief industries of a certain court try, without his ever once considering what is included in the chief industries of a certain probably he has seen logs floated down stream to the mill, or has witnessed some other part of the operation of lunbering. But that does not ensure to the stream to the bas seen with what is implied to the has seen But that does not ensure his associating what he has seed with what is implied in the brief text-book statement. It is necessary that the teacher shall have bidden him inquire into the inception the shall have bidden him inquire into the inception, the purpose, and the outcome of what he has seen, and in this way to put him in possession of the fundamental notions out of which to mentally picture the industry of humbering the purpose who practise it whether in Norway. of which to mentally picture the industry of lumbering and the people who practise it whether in Norway, Austria, or Quebec.

The discarded method of first teaching definitions of lake, river, island, and then determined to the committing of text-back states proceeding to the committing of first teaching definitions of lake, river, island, and the of mental imaging or in genuine interest of an intelligent kind. In permitting the child to recite what he reads without giving mental context to it is to establish mental habits recite what he reads without giving mental content to it is to establish mental habits

Re

teaching to intellectual growth as to true knowledge-getting. It is the office of good teaching word-symbols with the things signified; teaching to practise the child in associating word-symbols with the things signified; accordingly, it is imperative that the child should bring to the consideration of the text-book, it is imperative that the child should bring to the consideration of the textbook and of distant lands and peoples a mind stored with clear and definite geog-hphical : hphical ideas developed, as far as possible, through actual contact with the phenomena of earth earth and man manifested in his own environment.

In the geography of the upper four grades the general method will remain the same. In the geography of the upper four grades the general method will remain the terminant of terminant of the terminant of te ame as in grade four,-that of extending the pupils' knowledge of the earth and of man's relative four,-that of extending the social factor, it is only in details that the man's relations to it as an industrial and social factor, —it is only in details that the teacher can vary the procedure.

One more topic should be introduced in the fourth grade, or even earlier, viz., the map. Here, as elsewhere, the teacher must proceed through the avenues of the teacher are the teacher and the teacher are the teacher and the teacher are teacher are the teacher are the teacher are t Bound upon which we stand. The floor of the schoolroom affords a first problem in the particulation which we stand. nap-making; then the location, upon this plan, of the platform, the teacher's desk, and the first, as and that instruction when we stand. All this plan, of the platform, the teacher's desk, and that the front seats. Accurate drawing to scale ought not to be required at first, as his tends to complicate the problem. Next, the school grounds, the trees, fences, bats, gates, may form material for a new and larger map. Later, the public high-way with its branchings, houses, buildings. The brook, the pond, the groves or forest, will find place in subsequent maps. So long as proportionate areas and distances are limit well represented there need be no worry about drawing to scale. Direction, in term. the find place in subsequent maps. So long as proportionate areas and the distances are terms of the compass, is pertinent here. The first maps may be drawn with chalk upon the floor. (It is not be modeled in sand in a shallow box, buildings being repreupon the compass, is pertinent here. The first maps may buildings being repre-tented by but. They may be modeled in sand in a shallow box, buildings being repre-tented by but. ented by blocks, trees by tiny bits of evergreen, the brook or pond by a bit of mirrordag, the railroad by two wires—the result being an approach to reality which appeals to the child, read by two wires—the result being an approach to reality which appeals to the child's interest.

Scotia may be presented in its simpler implications of land, water, coastline, distances, directions locations locations is industries, before the end of the fourth year. No point is industries, before the end of the map of the county. From this point to the regular wall-map is an easy step; and the map of Nova directions localities, towns, industries, before the end of the fourth year. Rained by mean state of the school district to the map of bind by proceeding from the map of the school district to the map of the county. The county is a political, not a geographical unit, and consequently means nothing to be child. One with the other hand, proceed at once to the globe and the

the county is a political, not a geographical unit, and consequence international to the globe and the child. One might safely, on the other hand, proceed at once to the globe and the state of the province. Of course, the earliest study of the state of the province. the child. One might safely, on the other hand, proceed at other study of the globe is to be an and water, the safely is to be a study of the larger earth-forms, land and water, where is to be a study of the larger earth-forms and cities. tobe is to be, not the political divisions, but the larger earth-forms, land and water,

boutinent, ocean, islands, seas, gulfs, and a few great countries and cities. of the introduction of the text-book in the sixth grade necessations that on party the teacher to prevent geography from becoming a merely literary study. The text hould be relied by the provide statements of fact for interpretation by the pupil had be relied by the provide statements of fact for interpretation of the teacher. special The introduction of the text-book in the sixth grade necessitates care on the part Note the relied on chiefly to provide statements of fact for interpretation by the pupil effort the relied on chiefly to provide statements of fact for interpretation of the teacher, special effort the stimular the stimular other relations to one another udd be relied on chiefly to provide statements of fact for interpretation of the teacher, special effort being with the facts in their causal or other relations to one another or to being with the facts in their causal or other relations to one another when text-book may, for example effort being made to set forth the facts in their causal or other relations to one another of to facts and to set forth the facts in their causal or other relations to one another that facts could be set forth the facts in their causal or other relations to one another that facts could be set forth the facts in their causal or other relations to one another that facts could be set forth the facts in their causal or other relations to one another the facts could be set forth the facts in their causal or other relations to one another the facts could be set forth the facts in the set of the pupil. or to facts coming within the experience of the size, surface, soil, climate, mountains, site in discussion within the experience of the size, surface, soil, climate, mountains, the facts coming within the experience of the pupil. The terms of climate, mountains, ettes, and exchange in the facts of the size, surface, soil, climate, mountains, two, and exchange is to develop out of the size of the the in disconnected fashion the facts of the size, surface, but a source of the size of th then any products of Russia, what is aimed at in good the state of the We statements a picture of Russia as a large country of pinet, it is a statement of the sta those of the same latitudes in America, and, therefore, with much the same vegetation and the same latitudes in America, and industries; with villages and towns serving the same latitudes of the same latitudes are and industries and as seats of governand the same latitudes in America, and, therefore, with villages and towns serving the the same latitudes in America, and industries; with villages and towns serving the markets are agricultural operations and industries; and as seats of govern-

the solution of the text; and it serves as a type of the mental imagery to be sought of the text; and it serves as a type of the mental imagery to be sought of always be utility of a country. Current events as recorded in the newspaper should conduct be utility of a country their proper setting in place, politics, social or industrial solution their proper setting in place, politics, and as, for instance, as for instance of the sought of the text of the solution of the text of the solution of the solution of the text of the solution of the text of the solution of the text of always be utilized, and given their proper setting in place, politics, social or industrial the times will continually present themselves, such as, for instance, Michael Michael Michael State and growth advantages of a certain location for a town, or the explanation of the rapid growth

wid a northern seaboard shut in by ice in winter like our own worthumbername seaboard shut in by ice in winter like our own worthumbername seaboard shut in by ice in winter like our own worthumbername seaboard shut in by ice in winter like our own worthumbername seaboard shut in by ice in winter like our own worthumbername seaboard shut in by ice in winter like our own worthumbername seaboard shut in by ice in winter like our own worthumbername seaboard shut in by ice in winter like our own worthumbername seaboard shut in by ice in winter like our own worthumbername seaboard shut in by ice in winter like our own worthumbername seaboard shut in by ice in winter like our own worthumbername seaboard shut in by ice in winter like our own worthumbername seaboard shut in by ice in winter like our own worthum seaboard shut in by ice in winter like our own worthumbername seaboard shut in by ice in winter like our own worthum seaboard shut in by ice in winter literation seaboard shut in by ice i when a population engaged chiefly in tilling the soil, raising cattle and horses, universes, universes, universes, universes, university, and mining; with a christian population devoted to family, country and other ideals like our own. f_{acts} This elaborate mental picture is derivable from the map and from the unstandard teacher in stude; and it serves as a type of the mental imagery to be sought by the always in stude; and it serves are a type of the recorded in the newspaper should always in stude; and it serves are a type of the serves are recorded in the newspaper should always in stude; and it serves are a type of the serves are recorded in the newspaper should always in stude; and it serves are a type of the serves are recorded in the newspaper should always and the serves are recorded in the newspaper should be always and the serves are recorded in the newspaper should be always and the serves are recorded in the serves are recorded This elaborate mental picture is derivable from the map and from the disconnected to the torus of the mental imagery to be sought by the

the same latitudes in the same latitudes in the same agricultural operations and industries; when the same agricultural operations and industries; when the same agricultural operations as manufacturing centers and as seats of govern-ment, with same distributing-centers, as manufacturing centers and as seats of govern-with; with minimum for the former in winter and closed to navigation, as with us; with the same distributing for the former in winter and closed to navigation, as with us; Ment settle agricultural operations as manufacturing content and as searce of getting ment kets and distributing-centers, as manufacturing content and as searce of getting with with rivers and lakes frozen in winter and closed to navigation, as with us; with a norther search and the search and because dairying, with a with rivers and lakes frozen in winter and closed to havigation, as with a with rivers and lakes frozen in winter like our own Northumberland Strait; With a porthern seaboard shut in by ice in winter like soil, raising cattle and horses, dairying, hum a population is bliefly in tilling the soil, raising cattle and horses, dairying and

of a community, either of which problems is best understood when paralleled by the study of similar problems in Nova Scotia. Thus, Halifax, Sydney, Springhill, Glace Bay and Yarmouth are illustrative of the conditioners and Yarmouth are illustrative of the conditions presented in the general problems of location and rapid growth location and rapid growth.

Then there are the numerous physiographic problems which, out of place in the r grades except in their most obvious lower grades except in their most obvious aspects, are capable of being understood as they concern distant countries once there as they concern distant countries once they are revealed as the counterpart to natural forces near home. These must not be even to revealed as the counterpart to natural forces near home. These must not be overlooked. Again, there are the simple astron-omical phenomena. Further, the events of Canadian and British history, whose geo graphical setting may at times properly about the provided the provided of the provided o graphical setting may at times properly absorb the periods set apart for geographical study.

In the seventh and eighth grades, since the pupils bring to bear a developed morshing to be a develope religious sense and an increasing knowledge of history, of natural phenomena, of physical forces, of trade, of society and government, of the cal forces, of trade, of society and government, of the races of mankind, of the world's events, it is fitting that the interpretation of home and forces of mankind, of the world's events, it is fitting that the interpretation of home and foreign lands, of distant peoples, should be conducted with a view to developing in the should be conducted with a view to developing in the pupils a human interest in the people of strange lands and alien races. The affort to people of strange lands and alien races. The effort to appreciate what is worthy in men of other race and language and to promote a human interest in menople men of other race and language and to promote a human sympathy between our peopleand those of other lands can hardly fail to have finite. and those of other lands can hardly fail to bear fruit in temperance and tolerance at home, in a more intelligent Canadian patriotism and in temperance and tolerance. home, in a more intelligent Canadian patriotism, and in a saner and safer Imperalism. The annual recurrence of the festivals of July the Wint a saner and safer Imperalism. The annual recurrence of the festivals of July the First, Empire and Victorial Days, will afford in every grade occasion for Empire 1 will afford in every grade occasion for Empire lessons, geographical and historical, appropriate to the age and intelligence of the sure it

(Note on School Excursions. Plan beforehand and inform the children what want them particularly to make observation and you want them particularly to make observation upon. Don't overlook the fact winter has much to teach us, and that the same all winter has much to teach us, and that the same place may well be visited in each season. While on the excursion, halt the class now and the While on the excursion, halt the class now and then and have them consider, in class room fashion, anything worthy of observation or diverse di di diverse diverse diverse diverse diverse di diverse diverse room fashion, anything worthy of observation or discussion. On the return to school, or on the following day, review the event and the things. or on the following day, review the event and the things seen and discussed. miscellaneous school, the teacher might utilize as accient. miscellaneous school, the teacher might utilize as assistants in conducting the younger children older pupils or outsiders.)

GEOGRAPHY: GRADES I, II, III.

Talks with pupils about the seasons as they pass, with no attempt to explain these older people's occupations appropriate to each the the older people's occupations appropriate to each; the summer and winter pastimer and home-duties of the children: the low winter sup oband home-duties of the children; the low winter sun observed at noon, the early law fight; the high June sun at noon, and the long day; the trace of at noon, the weather light; the high June sun at noon, and the long day; the trees, their changes; the weather day by day; color changes in forrest. field, meadow, and the seasons at seasons at the seasons a day by day; color changes in forrest, field, meadow, and sky, as days and sealing pass; changed condition of ground, brook, pond, plants; our summer and winter foods; he arrival and the departure of birds; preparation for winter made by squirrels, bees, bears, caterpillars and other insects.

The things the farmer, the fisherman, the The country store or the town shops. artizan must buy. The things he sells.

The mill, the quarry, the mine, the coke-oven, the factory, the blacksmith's shop, the fishing-boat, and the catching and our sector the factory, the blacksmith's stanger, into the fishing-boat, and the catching and curing of fish, the shoemaker, the tanner, in post-office, the church, the school,—all and each will be shoemaker, the tanner, in and explanation the school,—all and each will be shoemaker, the observation post-office, the church, the school,—all and each will afford material for observition provide contacts and and explanation, the pupil taking the initiative in the conversation. The aim isto provide contacts and sense-experiences, to quicken a habit of inquiry and to develop language.

Visits should be made after school or at other times to some convenient hilltop, to prook, brooklets, ditches, to a valley, a forest the brook, brooklets, ditches, to a valley, a forest, river, harbor, beach, or whichever of these may be accessible, especial attention being with the provided by the provide of these may be accessible, especial attention being paid to these as serviceable to made

GEOGRAPHY: GRADE IV.

Home-geography, beginning preferably with a view of the industries of the neight borhood, the means of transportation, the institutions, elementary ideas of government, of trade and commerce, of postal and telegraph and the trade sewers. of trade and commerce, of postal and telegraph services. (In towns, the streets, sewers) water-supply, light, etc.)

Earth forms as related to one another; hill and valley; pond, lake, swamp, brook, and the surface contour determining each; soil and its formation by various agencies; the action of walking and the surface on a valley along and $t_{be}^{t_{a}}$ action of running water, of frost, of melting snow; mountain and valley; slope and watered of running water, of south back have barbor cape). watershed; (in maritime districts, coast, beach, bay, harbor, cape).

Man's direction of natural torces: draining swamps, clearing and thing the building bridges, breakwaters, mill-dams for water power; navigating lakes, rivers, seas by wind, steam and other agencies, guided by light-houses, signals, weather-pre-Man's direction of natural forces: draining swamps, clearing and tilling land

In all of the foregoing the aim is to quicken the pupil's power of observation and to deepen his insight.

Plans of schoolroom and grounds; plan or map of district showing roads and buildings, brook, pond, forest, etc. The sand-map as counterpart of the plan drawn on paper on the plan drawn on paper or blackboard.

The world that lies beyond our horizon: Nova Scotia; ideas of distance expressed in travel-periods by rail, on foot, etc. Map of Nova Scotia explained as the continua-tion of the plan of the district already made. Ideas of direction derived from the un's position of the district already made. Ideas of direction to the map hung any of the plan of the district already made. In the application to the map hung on the position; the four points of the compass and their application. Surface forms not on the position; the four points of the compass and then application to the map nung found in the north wall or laid on the floor with the top to the north. Surface forms not nature and not neighborhood comprehended through the medium of miniature forms in the surface and coastal features of Nova Scotia, its hature and on the sand-map. The surface and coastal features of Nova Scotia, its chief town the and on the sand-map. The surface and coastal terror trains, means of com-munications and the means of access to them, its rivers, mountains, means of com-munications and the means of access to them, its rivers, mountains, means of comnumication and the means of access to them, its rivers, mountains, means of com-numication and transportation. (County lines and names mean little to children and ay he omitted. The province, on the contrary, as a geographical unit will easily be apprehended. apprehended).

The world as a whole, from globe and hemispheres, merely to permit the general conception of its form, its great land and water surfaces and our position thereon.

Geography: Grade v.

North America as a land form on the earth's surface. Its larger features, political, tural, climatic; its countries, cities, bays, gulfs, rivers, mountains, islands.

indands; its provinces, chief cities, chief routes of travel and trade, distances measured indays; its provinces, chief cities, chief routes of travel and trade, distances measured hidays' journeys, products of soil, forest, sea, mine.

Lation to its industries, its population, the location of its chief towns and to a few leading eventslin its industries, its population, the location of Nova Scotia and Canada. Nova Scotia in considerable detail, not only its natural features but these in reeventalin its industries, its population, the location of its that so and Canada.

 D_{ay} and night a turning of the globe or earth towards the never-moving sun; Warmth and night a turning of the globe or carts touted winds; the overhead sun and its long day lourness as determined by sun and winds; the overhead sun and its long day lourness of the low noon-sun in winter and the short day, as affecting day-journey in summer, the low noon-sun in winter and the short day, as affecting limate and vegetation. The polar and the equatorial regions contrasted, with their low and high regetation. by and high suns, and their differences of climate and products.

The equator on map and globe; parallels north and south.

GEOGRAPHY: GRADE VI.

The continents, oceans; European countries and their capitals, their great rivers, Canada iron, seas, gulfs; the chief countries of the British Empire. The peopling of Infada from a gulfs; the chief countries approximate latitudes of various countries, with Countaines, seas, gulfs; the chief countries of the Brutsh Empire. The people of the Brutsh Empire.

Canada, completed, with the aid of the text-book, the purpose having been to eive of conceive of our country not as a place on a map divided into colored portions called provinces, but timetion of the school district in which the child lives. Its extent as connection of the school district in which the child lives. Its extent as continuation of the school district in which the child lives. Its its it as continuation of the school district in which the child lives. Its there as conceived in terms of miles, of days' journeys, and of greater units of distance; The fairly units of distance throughout the economically important area of a fairly uniform climate and products throughout the economically important area he norther throughout the economically important area The northern and unsettled regions The coastal, mountain, and valley districts of

British Columbia; their people, villages, towns, industries; the rapidly peopling provinces of the Middle West, their inducements to settlers; the immense prairie, its fortility, its longings and its monotonue the fertility, its loneliness and its monotony; the advantages of life in our Maritime Proving ces with their varied connerve milder ces with their varied scenery, milder seasons, invigorating sea-air, productive soil, abundance of fuel, fish and fruits variety of seasons, invigorating sea-air, productive The abundance of fuel, fish and fruits, variety of occupation and of outdoor pastimes. and Saint Lawrence provinces and their place in the agricultural, lumbering mining activities of Canada; their great size and population; their chief cities as manufacturing and distributing centers. The Maritime Provinces similarly studied.

The great rivers and lakes of Canada as avenues of communication,—the canals by them; the great railroads built and built liers the fed by them; the great railroads built and building; the postal, telegraph and tele phone services; the location of towns as determined by trade advantages; the various means of transportation and travel

The nature of trade, foreign and domestic; our imports and exports; items of food, ning, house-furnishings, where they come from: the clothing, house-furnishings, where they come from; the several shops and where their several articles of merchandize comes from

Federal and provincial government; taxation and revenue; public works and ic services. County and town government public services. County and town government.

The people of Canada, the races represented, the languages spoken; the religionships are moral and philanthropic agencies and activities the great moral and philanthropic agencies and activities. The duties of a citizen civic, social, moral and religious.

Map-drawing, not so much as a drawing lesson, as to clarify and fix ideas of area distance, latitude, and means of communication. Longitude, meridians and Parallele. The seasons and unequal day and night presented in the seasons and unequal day and night presented in the seasons and unequal day and night presented in the seasons and unequal day and night presented in the seasons and unequal day and night presented in the seasons and unequal day and night presented in the seasons are seasons and unequal day and night presented in the seasons are seasons and unequal day and night presented in the seasons are seasons are seasons and unequal day and night presented in the seasons are The seasons and unequal day and night presented in an elementary fashion through medium of globe and diagram.

Map-interpretation: the map as showing elevation of land, coast line, courses of rs and consequently the slopes and drainage begins to a lever rivers and consequently the slopes and drainage basins of a country; as showing elevention, latitude, maritime or inland position and therefore a country; as showing as in tion, latitude, maritime or inland position and therefore permitting inferences and temperature, rainfall, prevailing winds, approximate length of day in summer winter, vegetable and animal products; as showing location of towns and eities and therefore the general distribution of population and the trade point.

GEOGRAPHY: GRADE VII.

Whatever physical features the particular district presents, to be studied by direct observation. For example, the natural and artificial drainage. The brook may be mapped in detail, not only its course, tributaries, levels, widths and deputs, but the plants and trees along its margin, its aquatic plants and animal life. The there are to be noticed the wearing-down and building-up processes carried on by the movement of stones by ice; the effects of rain and melting snows; its source tributaries and the springs that feed it. So, in maritime districts the effects of frost, waves and tide. tributaries and the springs that feed it. So, in maritime districts, the effects of wind, frost, waves, and tides upon the edge of the land

The map of Europe studied for great drainage slopes, highlands, lowlands, great plains, coastal indentations, natural highways of commerce like the Mediterraneas, the Rhine, the Danube, the Elbe; great ocean ports and ocean routes; the chief con-modities for export and import and their destination, especially those sent to our cour try; imports, and especially those from Canada; names of countries and their position on the map; great attions have been constructed and their position try; imports, and especially those from Canada; names of countries and their position on the map; great cities; languages and races on the map; great cities; languages and races, especially those sent their Poppor minent in civilization, colonization and commerce; latitude, longitude and elevation as determining climate and vegetable products: the chief und function of function and France. as determining climate and vegetable products; the chief colonies of Britain and France, the religions of Europe; Europe as the chief sect of Climate and France, the religions of Europe; Europe as the chief seat of Christian culture.

The British Isles in some detail, attention centering chiefly on area, latitude, climate, surface, soil, natural products; the dense population; the great manufac-turing centres, ocean-ports, river-ports; universities and schools; colonial enterprise, and nature of colonial and foreign trade. The English-speaking peoples of the world, their similar ideals of religious tolerance, self-government, personal liberty, civic duty family relations, frankness, courage, individual resourcefulness.

France, studied as the land of origin of many of our Canadian people; its latitude, ate, products, great cities, its trade with o climate, products, great cities, its trade with Canada and with Britain.

GEOGRAPHY: GRADE VIII.

The seasons, long days and short nights, etc., observed and recorded. The direction and length of shadow of an upright stick at noon each day, recorded at least monthly through of shadow of an upright stick at noon each day, recorded at least monthly of shadow of an upright stick at noon each day. throughout year. Latitude of a place as determined by the sun's height or the length of stick's show by the difference in time between a Watch boots at noon. Our longitude as shown by the difference in time between a watch boots. watch keeping London time and the school clock.

The United States, studied in accordance with the prescription for the British Isles, Reads and the faities of the most important states in grade vii, with names and chief cities of the most important states.

Mexico, the West Indies, South America, studied first, from the map, as Canada was audied in grade vi, with special attention to Brazil, Argentina, Peru, Chili.

Asia, especially Palestine, Japan, China, India.

Africa, especially the South African Republic, Egypt, Morocco.

Australasia, and the various island colonies and minor possessions of Britain.

Commercial geography: great trade routes, by rail, steamer, caravan; the world's Montevideo, Marseilles, Singapore, Cardiff, Kobe, Genoa, Buenos Ayres; their position hative to great ocean routes.

Classification of commodities as vegetable products, comprizing products of the to the single state of the super super state of the super super state of the super state the farm, as wheat, rice, roots, fruits, sugar; products of wild and cultivated shrubs, as the farm, as wheat, rice, roots, fruits, sugar; products of the farm, interview for the start of tea, coffee, indigo, spices; textile materials, as cotton, flax, hemp, jute, wood-pulp; pro-ducts of anime, so the spice of anime is a spice of a spice of anime is a spice of anime is a spice of a spice of anime is a spice of Auto offee, indigo, spices; textile materials, as cotton, max, texting, texthers, eggs, dairy Mucto of animals, as meats, wool, hair, hides, fats, horn, ivory, furs, feathers, eggs, dairy Produce, e. Produce; fish products, comprizing food fish, oils, fertilizers; products of insects, com-prizing contained products, comprizing food fish, oils, fertilizers; products of insects, com-prizing contained products, comprizing food fish, oils, fertilizers; products of insects, combridge, fish products, comprising food fish, oils, fertilizers, products of insects, com-bridge cochineal, lac, silk, honey, wax. Most of these the teacher will be able to trace to their sources in various parts of the world.

Facilities and restrictions to trade; v. g., commercial treaties, customs duties, excise, Paper Money, coinage, posts, telegraphs, and means of transport.

Commercial Geography, pub. by Cambridge University Press, England; price one shilling.)

Government, as despotic, democratic, or as partaking of each; the nature of repre-Covernment, as despotic, democratic, or as partaking of seven statistic dependence of the seven seven

HISTORY.

The Sub-Committee on History Study begs to report as follows:---

That the object of History Study should not be so much an attempt to store the d with the object of History Study should not be so much an attempt to store the student to reflect on the changes and views hind with past human events, as to train the Student to reflect on the changes and vicis-tides of human events, as to train the deeds of the past and to enable him to cast a dudes of human life as exemplified in the deeds of the past and to enable him to cast a discerning of human life as exemplified in the deeds of him to the the therefore the determine events, and the deeds of the pass and the transferred to the transferred to the deeds of the pass of human life as exemplified in the deeds of the pass and that it is therefore the duty of the pass of the plan of Education, that History should be so duty of our Educators and should be the plan of Education, that History should be so presented acts and should be the plan of curves and should be so presented acts and should be the plan of Education, that History should be so presented as to accomplish this result as far as our circumstances may permit.

There has been a revolt of late years against the history of crowned heads and a re that hist been a revolt of late years against the history of crowned heads and a desire has been a revolt of late years against the missiony of crowned neads and the start that history deal more with the common people and less with a nation's dignitaries. t is our opinion that we should make haste slowly in this direction or we may err in anoth-the common people would be little more than a text on er direction. A history wholly of the common people would be little more than a text on the common man who makes history. ociology. It is the uncommon man who makes history.

their age. Their immediate successors and their nobility were almost the only makers of the try in their immediate successors and their nobility were almost the only makers of the try in their immediate successors. True it is that they may have suppressed nobler The first kings were leaders from force of merit and stamped their character upon age. The kings were leaders from force of merit and stamped their character upon ther age. Their immediate successors and their nobility were almost the only manage in their immediate successors and their nobility were almost the only manage in their day and generation. True it is that they may have suppressed nobler baders, immediate successors of the common people, but until these became active, but active ac adders, immersed in the ignorance of the common people, but until these became active, interv could to be adders, growing in the strength. strength into a strength in the strength in the strength is the strength into a strength in the strength is strength. trength, struggling against kings, growing in many instances weaker.

But the king being the centre of these struggles, could not be ignored by any wise historian until his figure no longer dominated the stage.

History, therefore, is an account of the deeds and the results of the deeds of a $N_{\rm s}$ tion's great men, its true kings. Of little significance is it whether they wear a crown like an English Henry or an Edward, or a workman's cap like a Stephenson, or an Edison.

Again people do not rise *en masse* and struggle for liberty or great principles. These struggles were conceived in and guided by the minds of single men who sometimes paid forfeit with their lives for arousing an indifferent or hostile commonality, joined to their idols and desiring but to be let alone. History, therefore, as a study to interest and here fit should in our estimation, be biographical. History that will be a living influence of the rising generation cannot be too much centred on the central characters and not on their contemporaries.

The educational leaders of the United States have of late been giving more attention than formerly to this important subject. We quote the following from the Report of the Committee of Eight on History, of the National Educational Association, at Los Angelos, California, July 8-12, 1907. The general conclusions of this Committee have been stated as follows:—

"It is believed that a leading aim in history teaching is to help the child to appreiate what his fellows are doing, and to help him to "INTELLIGENT VOLUNTARY ACTION" in agreement or disagreement with them. To accomplish these results there must be continuous attention in each of the grades to CONTEMPORARY PROBLEMS suitable to his intelligence, and also attention to events in the past he CAN understand. In the first four grades, while the teaching must be incidental it will serve to give a correct attr tude toward later history. History and civics also should be presented as allied subjects, emphasis being placed now on the history, and now on present civics.

"The Committee believes that the subject-matter for a course in the Elementary Schools should be selected from American history. But this is not to be interpreted a restricted sense. The pupil must be led to understand that American civilization and institutions have their beginnings under European surroundings, and that the problems of our National life, even to the close of the first quarter of the nineteenth century, were in a large measure clearly connected with European problems."

Then the Report states that this committee has under consideration for fourth and fifth grades a series of well selected American biographies. In these grades there is no attempt to do more than give vivid pictures of men and their times but the pictures or stories are arranged IN SEQUENCE, so that the children may unconsciously gain a feeling of the close connection of each story with those preceding and those following Pupils in these early grades are not prepared to take up causes and effects in any logical way. The considerations which guide in the presentation of the material for the sixth grade are stated in the report as follows:—

"First, a desire to emphasize geographical facts, not alone those which form a part of the history of the discoveries of the fifteenth and sixteenth centuries, but also the simpler incidents of previous geographical discoveries. Second, the desire to put the facts of emigration to America in connection with earlier movements of peoples. Third, the effort to show in a very simple way the civilizations which form the heritage of those who were to go to America, that is, to explain what America started with.

"Lastly, to associate the three or four peoples of Europe which were to have be share in American civilization, with enough of their characteristic incidents to give de child some feeling for the names, England, France, Spain and Holland. The period of the discoveries should also be included in the work of this grade.

"In the seventh grade should be considered the exploration and settlement of North America and growth of the colonies, with accompanying European background, through the period of the Revolution. To the eighth grade would be assigned the formation and inauguration of the new government; the industrial and political development of the United States; westward expansion and the growth of rival European nations.

"The plan of the ENTIRE COURSE is based on the proposition that the history teaching in the elementary schools shall be focused around American history; but that American telementary schools shall be focused around American history; but that American history shall be regarded as distinctly related and developed out of the history of the analytic that if we would maintain interest throughout the of the surrounding world; and that if we would maintain interest throughout the course we are subject matter. course we must avoid THE RECURRENCE IN SUCCESSIVE VEARS of the same subject matter.

"The method that should prevail is the method that characterizes the good story "The method that should prevail is the method that characterizes the goon story tares of the constraint of the past has failed largely because it has not been pic-of novelty was absent. Interest has been forestalled. The Committee has steadily the prin minute the of the hour, the capacity of the teachers as they are now. The kept in mind the demands of the hour, the capacity of the teachers as they are now. The goung and the demands of the hour, while it affords scope for the most talented teachprouping of the work is so flexible that, while it affords scope for the most talented teach-er, yet the the work is so flexible that, of restricted information, can make it the basis er, yet the work is so flexible that, of restricted information, can make it the basis of a more teacher of lesser attainments, of restricted information, can make it the basis of a measurably satisfactory presentation.

"The grade teachers need and desire just such pedagogical 'apparatus' as they find it news and instant such was seen by the such was the production of t in our newer text books (our Nova Scotia texts are yet to come), and just such DETAILED syllabic our text books (our Nova Scotia texts are yet to come), and just such DETAILED have our teachers) on the principles and methods of teaching this subject, but these are comparent: comparatively MEANINGLESS to them unless supplemented by LISTS OF TOPICS WITH REFERENCE WEANINGLESS to them unless supplemented in this report. We are Apparatively MEANINGLESS to them unless supplemented by mais or topics with Apparatively MEANINGLESS to them unless supplemented by mais or topics with dependences and specific suggestions, like those included in this report. We are dependent in this country, if we would gradually emerge from the hopeless diversity that characteristic supplemented by the present $t_{hat}^{preadent}$ in this country, if we would granuary emerge non-ge that $t_{hat}^{preadent}$ characterizes our history teaching, upon CONCENTRATED efforts like the present

Does not this apply most apply to Nova Scotia? .

We see by this American Report of 1908 that history teaching in that country has been allowed to run in the old groove as it has in this country. As their history is \sinh_{a_1,a_2,a_3} been allowed to run in the old groove as it has in this country. As their history is \sinh_{a_1,a_2,a_3} minilar and contemporaneous with our own, as we are sprung from the same peoples and have the contemporaneous with our own, as we are sprung from the same peoples and have the contemporaneous with our own, as we are sprung from the same peoples and have the contemporaneous with our own, as we are sprung from the same peoples and have the contemporaneous with our own, as we are sprung from the same peoples and have the contemporaneous with our own, as we are sprung from the same peoples and have the contemporaneous with our own, as we are sprung from the same peoples and have the contemporaneous with our own, as we are sprung from the same people and have the contemporaneous with our own, as we are sprung from the same people and have the contemporaneous with our own, as we are sprung from the same people and have the contemporaneous with our own, as we are sprung from the same people and have the contemporaneous with our own, as we are sprung from the same people and have the contemporaneous with our own, as we are sprung from the same people and have the contemporaneous with our own, as we are sprung from the same people and have the contemporaneous with our own, as we are sprung from the same people and have the contemporaneous with our own, as we are sprung from the same people and have the contemporaneous with the same people and the same people and have the contemporaneous with the same people and the same people and have the same people and the same people have the common mother tongue, it appears to the committee that we could go to no hation and contemporaneous with our own, as we are progress than we in the teaching of this subnation and learn, if they have made more progress than we in the teaching of this sub-ject, to a learn, if they have made more progress the line for the reasons just cited. The very ject, to a greater advantage than across the line for the reasons just cited. The very ablest of the reater advantage than across the line for the reasons just cited themselves of the ablest of their educationists were on this committee. They availed themselves of the labours of their educationists were on this committee. They availed themselves of the union. The chaotic about of their educationists were on this committee. They a third intensives of the labours of former historical committees in various parts of the union. The chaotic condition of former historical committees of the Association of the Middle States and Columbia Transmission of the suspices of the Association of the Middle States and of Columbia University under the auspices of the Association of the Middle States and Maryland University under the auspices of the Association of the Middle States and Maryland, embracing the curricula of fifty cities, among which no agreement existed as to method, material, or allotted time. We, in Nova Scotia, should not hesitate to learn from our peicht and the embracing the curricula of fifty cities, among which no agreement existed as to method, material, or allotted time. We, in Nova Scotia, should not hesitate to learn mit. Our peicht and the embracing the educational methods has no nationality. This Com-mit, our peicht and the educational methods has no nationality. thom our neighbors. Truth in educational methods has no nationality. hittee of D: the greatest weight with Nova Scotians whose history, as related, runs parallel with their own.

We had our history schedule about complete for presentation to the Committee when we had our history schedule about complete for presentation to the communication our own we met with the above report and therefore we feel the more boldness in presenting the own we include the transformer of the birthere are the birthere our own, as it agrees with that report and therefore we reer the fine would therefore recom-thend that the teaching of History begin with Grade III, including the history of the section. Assist a constant of the bistory of the County, including the stories, if they are section. Assign to Grade IV. the history of the County, including the stories, if they are procurable stories of Grade IV. the history of the County of the rome mamed; and the biographical sketches of its chief men and the history of some contemporary event memory of the class. The building of any well known structure within the light of the class. The building of any well known structure within the light of the class. The building of any well known structure within the light of the class. The building of any well known structure within the light of the class. The building of any well known structure within the light of the class. The building of any well known structure within the light of the class. memory of the class. The building of any memory of the class. The building of any memory of the class may aid the teacher to inculcate the idea of time and lay an intel-ligent formation of the class may aid the teacher comprehension of dates. In the next grade the teacher igent foundation for the proper comprehension of dates. In the next grade the teacher and deal with and deal with some past or present phases of the history of the Province and so on in widening circles to Grade IN.

of History, like charity, should begin at home, and its ressons should take the onap-arouse from the lips of the teachers. History about their own home section will one grade the interest of the pupil at the beginning and if carried on and broadened from own grade to another will produce a class of people who really know the history of their History, like charity, should begin at home, and its lessons should take the shape tories in the teachers. History about their own home section will one grade to another will produce a class of people who really know the history of their examples and country. How much better to put into the hands, for where state interest of the puper at the section of people who really know the instate, of the section, town, eity and country. How much better to put into the hands, for takens, of Halifax pupils, a biographical history of many of the old pioneer city family, their structure adventures and successes: men whose names are borne by tample, of Halifax pupils, a biographical history of many of the old pioneer city fathers, their struggles, adventures and successes: men whose names are borne by would be! Every old street in Halifax has its history. The statesmen of George the

Third have their names stamped on many of the thoroughfares of our Capital, giving us at once a clue to their opening dates. How many of the school pupils are aware of any of it? What is true of Hollier is not the school pupils are aware of any of it? What is true of Halifax is equally true of the smaller towns of the Province. If the history of these things were taught and foreign history relegated to a later day it might be a strong factor in inculcating a pride of country and race. And it would raise us in the estimation of our neighbor and new here the strong factor is a strong factor in inculcating a pride of country and race. raise us in the estimation of our neighbors as well as in the estimation of ourselves. intelligent respect is always felt for those who are thoroughly conversant with their local and provincial history. How easy it is for a neighboring nation like the United States to gain the allegiance of many Nova Saction englobering nation like the theory of States to gain the allegiance of many Nova Scotians who go there, whose knowledge of their own country is of the most monome above the standard and the standard stan their own country is of the most meagre character and whose memory of history study is some vague recollection of a few old Eventh and the memory of history study is some vague recollection of a few old French names. In many places in Howe is speeches and letters that statesman pointed out that this very want of a home pride is things Nova Scotian and British gave the Americana a Every bit things Nova Scotian and British gave the Americans a great advantage. of local history is now being gathered there and taught in their schools, but our historic dead can sleep under nameless mounds as at Grand Day dead can sleep under nameless mounds as at Grand Pre and Louisburg, until the American sets us the example in our own land as he did in 1994. can sets us the example in our own land as he did in 1894, by raising the monument of Louisburg. If we care absolutely nothing about the did in 1894, by raising the monument of If we care absolutely nothing about these things how can we expect out are? But would there not be some change in preserved for us, if we were thoroughly trained in our home history? Is it not better therefore, if we cannot take up both home and foreign bit for therefore, if we cannot take up both home and foreign history? Is it not been for a more convenient season except such portions as touch in the foreign for a more convenient season except such portions as touch upon our colonization?

And of home history none of it will cling to the memory of the young or be a greater event incentive than the stories of our great men or the history of some important event just transpired in our midst, thus creating an interval to the present just transpired in our midst, thus creating an interest in the past and in the present all focusing on our own land.

From De Monts to Joseph Howe and from Howe to William S. Fielding we can ct a grand array of historic names. If these here here to William S. Fielding we can collect a grand array of historic names. If these be presented to the pupils in proper sequence there can be little doubt in the minute of sequence there can be little doubt in the minds of any history committee that better results would be produced than at present and that any history committee that better results would be produced than at present and that order would arise out of chaos.

In making a program on the lines laid down in these introductory remarks, a difficulty at once presents itself; the difference between town and country schools; the manifold chances for advancement possessed by the one can be advanced to the the second state. manifold chances for advancement possessed by the one and denied to the other. Con same difficulty crops up in every part of the curriculum; but it seemed to the sub-conmittee that it was best for all concerned that the curriculum; but it seemed to the sub-tensive and detailed as the highest graded schools could tensive and detailed as the highest graded schools could overtake in one school year, and let the country school overtake as much of it as the and let the country school overtake as much of it as their circumstances of time and number of teachers would permit. This detail could be worked out by the country teachers and their inspectors. New text books will be required at the teachers and their inspectors. teachers and their inspectors. New text books will be required of a biographic character. These should not be difficult of compilation, nor need we call for foreign assistance.

To present a faultless curriculum is impossible even by a body of experts, which we not, for a series of grades all possessing could failting for a body of experts, and different to the series of grades all possessing could failting for a body of experts. 10 present a faultless curriculum is impossible even by a body of experts, which " are not, for a series of grades all possessing equal facilities for study; but with our differing ing conditions of eity, town and country, even to fairly satisfy is difficult. The schedule here presented is not meant to defy criticism, except to a certain extent on its underlying principles, and in these we confidently believe lies the only rescue of this important subject from the chaotic condition in which it exists to day subject from the chaotic condition in which it exists to-day.

Finally we must take into consideration the conditions as they exist to-day. Have we in Nova Scotia a body of common school teachers who are possessed of that energy ability and training necessary to carry on the ability and training necessary to carry on these history stories, draw these maps are collect and prepare this biographical material with the story stories, draw these has a detailed procollect and prepare this biographical material, without the assistance of a detailed such a body of teachers. Where could they learn such a system? Not in Nova Scotia. Just Born and the such as the such a system? Not in Nova Scotia. many of them, think you, on a mere suggestion in the journal, would try this bar Probably very few. It is human nature to cling with the most stubborn tenacity to the skirts of the past and if a custom, good or had have the most stubborn tenacity and skirts of the past and if a custom, good or bad, have the sanction of a few generations there is no hope for a change in the adults. who will there is no hope for a change in the adults, who will view with alarm any novel course taken by their progeny and shake their heads only with alarm any novel course "Ille antimited". taken by their progeny and shake their heads who will view with alarm any novel come "Illa antiquitas." How then are we to proceed? We would respectfully suggest ine committee that the proper course would be by educating the teachers along these with at the Normal College; and also from the Education Office by furnishing them, ish at the Normal College; and also from the Education Office, by furnishing them publishing houses of the needed books, or by publishing a detailed course of study and selling it as them do not be store starting the ing a detailed course of study and selling it as they do elsewhere. Since starting the

We came across the course of study for the Common Schools of Illinois, 1907, for sale to all section of you may have seen it. To all sections and teachers at 35 cents per copy. Some of you may have seen it. To those where and teachers at 35 cents that it does not go beyond Grade VIII., yet it is a these tions and teachers at 35 cents per copy. Some of you may have seen to the book of have not, we may state, that it does not go beyond Grade VIII., yet it is a book of nearly 300 pages. It has the work of every grade marked out to the last possible detail, not any state of the service work, but month by month for every subject in every detail, not only for the year's work, but month by month for every subject in every grade and scope for the individuality grade; and so skilfully is it drawn up that it still leaves ample scope for the individuality of the teach of the teacher to have full play. It not only maps out the manner and course of prowedge in each subject, but furnishes a time table for every grade for every day and for every how a subject, but furnishes a time table for every grade for every day and for every how a subject but furnishes a time table for every so that no time or effort is an illustration of the second an illustration from their history schedule for sixth year, for just one month.

"FIRST MONTH."

CoLUMBUS.-Birth; time and place. Boyhood; education, occupation. Manhood; travels, trials, theories, patrons, adventures, voyages, discoveries, honors and sufferings. Death. Reflections.

DE Soro.-Ditto.

COLUMBUS

JOHN SMITH.-Ditto.

Then follows recommendations that teacher and pupil agree on the important unes of the proper order; and that each features of the life studied; that they arrange these in proper order; and that each pupil write the life studied; that they arrange these in proper order; and power of illus-Pupil write a short biographical sketch, using his own expression and power of illus-tration. AFTER CORRECTION these to be copied into a "composition book."

Then follows a suggestion as to Columbus, so that no teacher can give an excuse for not knowing just what to do. It is as follows:-

1.	Birth				•	Place Date Education
2.	Boyhood \cdot	•	•	•	•	Opportunities Occupations Theory of Earth
3.	Manhood .		•	•	•	Search for assistance Patrons Voyages and discoveries Honors and sufferings

- Death 4.
 - Reflections 5.

Compare this with the monotonous drill of our schools, forcing upon the minds of inclusion of the second sec but of diver dates, and driest of all, the thick sprinking of other dates of particulation of a distribution of the distributi

We need not refer further to the above mentioned could be about the people who are decimating our people of what is being done by our greatest rivals—the people who are decimating our population of what is being done by our greatest rivals—the people who are decimating our population of what is being done by our greatest rivals—the people who are decimating our population of what is being done by our greatest rivals—the people who are decimating our population of what is being done by our greatest rivals—the people who are decimating our population of the people who are decimating out population of We need not refer further to the above mentioned course of study than quote it as the stample of what is being done by our greatest rivals the people who are detinated and be absolute folly to state that history study alone will be absolute folly to state that history study alone will be absolute folly to state the history study alone will be absolute folly to state the history study alone will be absolute folly to state the history study alone will be absolute folly to state the history study alone will be absolute folly to state that history study alone will be absolute folly to state that history study alone will be absolute folly to state that history study alone will be absolute folly to state the history study alone will be absolute folly to state the history study alone will be absolute folly to state the history study alone will be absolute folly to state that history study alone will be absolute folly alone will be absolute folly alone will be absolute folly alone to our population. It would be absolute folly to state the first study study and the people in Nova Scotia, if they can make more money elsewhere; but history study to our own in Nova Scotia, if they can make more more through the lives of the men who most advant them will surely arouse an interest in our own land that many of who nown sections, counties, towns, and cities, as viewed unough the lives of the most our young advanced them, will surely arouse an interest in our own land that many of the young the section of the name of every Western State has a romantic halo our young men today have not. The name of every Western State has a romantic halo bout it to be not to the adventures of its pioneers, and the fact of its being the total bout it to be not to the adventures of its pioneers. young men today have not. The name of every western State has a romance may bout it to our youth, owing to the adventures of its pioneers, and the fact of its being and from her youth, owing to the adventures; let our youth hear of them had from her youth, owing to the adventures and their adventures; let our youth hear of them why from home. But our pioneers had their adventures; let our youth hear of them had from theme. But our pioneers had their adventures; let our youth hear of them had from the but our pioneers had their adventures and the second the province, may and from home. But our pioneers had their adventures, let our youth mean of the men who made the country, a larger knowledge of our own province, may and many to be the broady into its possibilities, and cause many more to decide that to-day the from home. But our pioneers had the forsake, but to build up. The state of the and many to look more closely into its possibilities, and cause many more to declue that Nova Scotia is not a land to forsake, but to build up. There is not a doubt that to-day through a wakening is taking place in Agriculture in Nova Scotia simply and purely through progressive Education. So may it be in other things. It is also folly to prethrough awakening is taking place in Agriculture in Nova Scotia simply and purch and awakening is taking place in Agriculture in other things. It is also folly to pre-tend that are things in the wisest character, can accomplish great things in a limit that are the total of the wisest character, can accomplish great things in the total total of the wisest character, can accomplish great things in the total of the wisest character, can accomplish great things in the total of the wisest character, can accomplish great things in the total of the wisest character, can accomplish great things in the total of the wisest character is the total of total of the total of total awakening is taking place in Agricult in other things. It is also four, to get that that school methods, even of the wisest character, can accomplish great things in a little time. If methods, even of the wisest character, but our schools need our best efforts and a little time. It is little the greatest can do, but our schools need our best efforts and

we should have them so directed that nothing be wasted. Now, even to risk a reprimand from the members of the Committee for the undue length of this introduction, we will again refer to the question of our ability to carry on successfully such a program as is being carried on to-day in progressive centres. The difficulty may be gram as a body to adopt the biographical method of teaching history and not, get our teachers as a body to adopt the biographical method of teaching history and not to save hours of labor, drop into the old method of text book recitations. We should note, however, that the first year will be the hard year, as the stories, once propared, can be used for the incoming classes, and biographical text books will ease and guide the teacher. But if we have no such teachers, or if we have them in rare numbers, beginning may be difficult and success for some years be doubtful. As previously stated, such a system as here laid down means a new set of text books—it means the supplying of Grade helps to teachers in all our sections.

Perhaps it would be better at the start to compromise somewhat, and, if the system as here presented, the system followed by the American schools, is found to be beyond the reach of many of our sections, we submit it to the Committee if it would not be wise to insert the thin edge of this biographical wedge in such sections as can afford the change and have teachers of sufficient skill to carry it on after it has been introduced. We must start somehow and somewhere.

If you consider this system the correct system of history teaching, but cannot see your way to adopt it in any sense, we may as well veil our position in silence. But if it can be begun, even in the smallest way, would it not be wise to make a beginning however small. This curriculum submitted by the sub-committee, we are painfully aware, needs much overhauling and correcting. Its main purpose, however, is and gestive. Neither are we in despair but that teachers can be procured who will make this method a reality. Our Normal School can train our teachers well to conduct at of history lessons. They probably do so now, as we are not so conceited as to imagine as are introducing any method of which every member of the Committee has not hearing well as ourselves. The Normal School can also, as well as the Education Office, furnish their out-going teachers, before they get the fever of "Westward Ho," with the titles and publishing houses of all the needed helps. Whether or no you agree to the suggestion here submitted we believe that after a discussion, the adoption of some needed change will result, that may breathe life into this important branch of our School curriculum.

HISTORY. GRADES I. TO VIII. INCLUSIVE.	
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GRADE.	MATERIAL.	METHODS.
Grade III.	History of Section.	Stories by teacher, oral reproductions, question by teacher about the older houses—who lived in them? Are ther any descendants among the pupils? etc. Gathering of other information by the pur pils and teacher; Construction of a map of section; the use of dates impressed in Grades III, or IV. of dates impressed in Grades III, or iv. by calculating back from the press the time elapsed since the happening some noteworthy evenu in section with in the memory of the class.
Grade ^{YIV.}	History of the County. Biographies of leading county men of the past with pictures if procurable. Reference book for teachers: The County History.	Stories by teacher; oral reproductions. Government, illustrated by School Board and its Executive Officer the teacher: thus enabling the pupil of take in intelligently the idea of count or town governments and taxes. Draw a county map illustrating the histori ry, and have pupils copy the same until they have it in memory.

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Grade V		
-uo y	ers or men prominent in early Nova Scotia and North Amer ican history beginning with Lief Ericson, Columbus and ending with Wolfe and Trea- ty of Paris, 1763. References for teacher: Histor- ies of England and France; Higgisson's American Explo- rer; the first three English books on America by Rich- ard Eden; and the History of Acadie (Hannay). or similar books.	 Stories by teacher on the makers of early American and Nova Scotian history, taking in as many biographies as time will permit, including anecdotes of birthplace, boyhood, etc., giving any adventurous or romantic feature full play. Many an unimportant anecdote as viewed historically may however, be most interesting to the pubil; use pic- tures of these men; pictures often being the best modes of beginning a story. Assign short lessons for reading aloud in School or to be learned at home, from biographical text-book, on occasions of review.
0.		Introduce Indian stories in connection with European settlers, as in Order of Good Times.
^{Grade} VI.	Biographies of chief men of Ear- ly Canadian History (not al- ready touched upon) such as Cartier, Champlain, etc., to	tions not reacted of a struct V.
Changes sug- Rested at teachers' conven- tion 1908 Prop out all Political History.	1763.	About settlement of Cape Breton from Western Scotland About threefold division of Cape Breton. among English, French and Spanish for fishing purposes, the respective harbors being St. Ann's, Louisburg and Baie Des Espagnols (Sydney); Early Mining. Stories and Adventures of Denys and others. About Settlement of the vacated Acadian
⁸ uggestions that early History of England be introduced	Some leading feature in history of Nova Scotia from 1758, to Howe's time. Teacher's References: County Histories and Journals of ear- ly explorers; Browne's His- tory of Cape Breton. Selected portions of English History from Henry VII. to	About English at Queens. About Loyalists at Shelburne. About Scotch at Pictou, and so on, sub- ject to time at disposal of teacher, leav- ing time for oral and written reviews at end of term; successive reviewing dur- ing term to be avoided as much as possi- ble by introduction of anecdotes in con- nection with men which can be easily remembered.
Grade VII.	interest in America. Biographies of Howe, Johnson and others, comprising the group for and against Re- sponsible Government, and those for and against the Un ion of 1867.	stories by teacher. Stories and readings by pupils and teach- er; assignments and recitations of home lessons from Nova Scotia and Ca- nadian history texts (Biographical mostly).
	The Beginnings of Railways in Nova Scotia, Feb 8, 1855, etc.	Maps used as in previous grades. Prepared lessons on English History as
	Biographical Canadian History from 1763-1867.	showing how the War of 1812 grew out of the Napoleonic wars, and its effect on Nova Scotia.

JOURNAL OF EDUCATION.

Introduce some early portions of History of England with some selected portions of English and European History touching directly or indirectly on Canada during the time of the Georges.

Grade VIII. Recent events of Nova Scotian History from 1867-1910 gathered as far as possible from biographics of such leading men as Dawson, Forrester, Tupper, Thompson, Fielding Murray and others prominent in Political, Industrial and Educational life.

> Canadian History, touching on several leading Canadians, from 1867--1910 as Sir J. A. Macdonald, George Brown, Alexander Mackenzie and others.

English History, touching on the various reforms and wars of the times of William IV.. Victoria and Edward VII. Boer War and Canada's con-Show that federations and combination nection therewith.

History of Railways in Canada and a continuation of Nova Scotia's Railway history.

Laurier, Chamberlain and Imperial Federation.

Text-book assignments and recitations, oral and written.

Readings of selected portions of History by teacher and pupils to be followed by talks.

Selected lessons, bringing out the social industrial and political condition of En-gland and show gland and showing the lines of struggle over the Reform Division of the over the Reform Bills and Repeal of St Corn Laws; from biographies of Sir John Russell, Richard Cobden and John Bright.

One or more lessons on Settlement of South Africa South Africa by English and Dutch, thus paving the thus paving the way for an intelligent understanding of the Boer War and is probable results on Interview Federa probable results on Imperial Federa-

of nations must lie in community of in terests and not terests and not on sentiment.

The above Schedule is, as we remarked in the body of the Introduction, mainly estive. The ground, for instance group over in Conde Withe Introduction, overlap The ground, for instance, gone over in Grade VIII should perhaps overlap year with the introduction of more British U. That could be settled suggestive. by some Committee. We are well aware that Educational matters cannot be get right by a torrent of words or the sounding of brassy paragraphs in the public car. by a torrent of words or the sounding of brassy paragraphs in the public ear. We have not erred in this direction. We have presented to you, as faithfully as lay but our power what is being done in words of the public ear. our power, what is being done in progressive centres; and as some of the changes but gested are of a very radical character and more than as some of the changes but the the more than t gested are of a very radical character and mean the expenditure of considerable money, we thought that nothing that could possible the expenditure of considerable money be we thought that nothing that could possibly be said in reasonable space should be omitted.

ARITHMETIC.

Notes on the first four grades;—Teachers will observe from the work prescribed that the object of the first four grades; —Teachers will observe from the work prescribe of the fundamental rules of Arithmetic. Addition Such a complete and thorough knowledge in the the fundamental rules of Arithmetic, Addition, Subtraction, Multiplication and the son. Accuracy is the first and great essential and the interview of the first and great essential and the son from addition. Accuracy is the first and great essential and should be insisted upon from the ing. The correct answer should be required should be insisted upon from the second The correct answer should be required at the first attempt—no second sing. Give the pupil sufficient time but at the first attempt—no second trial or guessing. Give the pupil sufficient time but insisted upon no security answer. When accuracy has been obtained required at the first attempt of correct answer. When accuracy has been obtained required to be the pupil sufficient time but insist upon an absolutely continued and well dimeted provide the pupil sufficient time but insist upon a baseline from continued and well dimeted provide the pupil sufficient time but insist upon a baseline from continued and well dimeted provide the pupil sufficient time but insist upon a baseline from continued and well dimeted provide the pupil sufficient time but insist upon a baseline from continued and well dimeted provide the pupil sufficient time but insist upon a baseline to be a sufficient time but insisted to be a sufficient ti When accuracy has been obtained, rapidity of work will come from continued directed practise. and well directed practise.

Unless accuracy and rapidity in the fundamental rules are developed in these es, the pupil will be handicapped through the rules are developed to text-book No text-book grades, the pupil will be handicapped throughout the whole course. should be used by the pupil in these grades.

PROPOSED COURSE IN ARITHMETIC.

GRADE I.

the addition table as far as $9 \div 9$, in both concrete and abstract numbers; accuracy to be inside the start. All fundamental operations with small numbers, giving particular attention to be insisted upon from the start.

GRADE II.

tion Table as far as six times twelve. Concrete examples as well as daily drill in abtract numbers should be given to secure rapidity. Accuracy must always be insisted

GRADE HI.

Complete the Multiplication Table and apply it to multiplication and Short Division With practical exercises. Notation and numeration exercises to thousands.

Continued daily drill in Addition and Subtraction.

GRADE IV.

Long Division and the practical application of the fundamental rules as found in arst wint the first sixty pages of Part I. of prescribed Arithmetic. Further examples should be given by the pages of Part I. The problems likely to be met by the pupil in his home life. even by the teacher based on problems likely to be met by the pupil in his home life.

developed. Notation and numeration continued. Avoirdupois Table and measures of capacity learned. Idea of simple fractions

Notes on first four grades. The chief aim of the work in these grades is to develop arecvariated above Accuracy should Notes on first four grades. The chief aim of the work in stress grades is to develop be the grad rapidity in the four fundamental rules. As stated above Accuracy should be the first manifold with the first two grades the only one. In these be the grades the consideration, and possibly, in the first two grades the only one. In these grades the consideration, and possibly in the teacher, or, at any rate, if a book be the first consideration, and possibly, in the first two grades the only one. In these states the pupil should get his examples from the teacher, or, at any rate, if a book be him in the book be the pupil should get his enswers. given him it should get his examples ...

GRADE V.

bacher, simple oral lessons on fractions and decimals, especially in the latter examples for canadian in canadian in the lessons on fractions and decimals, especially in the latter examples for canadian in the lessons on fractions and decimals, short daily drill in addition and other Part I. Arithmetic completed with further examples of a similar kind given by the her, similar kind given by the latter examples fundamental and the state of th

fundamental rules.

that The statements of the Unitary Method are explanatory and buotic statement should are always the pupil once understands the problem the lengthy statement should Not always be asked for.

GRADE VI.

Factors, Multiples, Fractions (Vulgar and Decimal) as in Part II. Arithmetic to 60. Events and Tables strondy learned. Continued drill on fundamen-Page 60. Further examples on Tables already learned. Continued drill on fundamen-

GRADE VII.

Metric System problems. Square root and mensuration as in Part III. Arithmetic onliting cone, pyramid, cylinder and sphere.

First two chapters of Morton's Mechanical Drawing.

GRADE VIII.

Problems on metric system. Part III. Arithmetic completed (omitting Ex I to VII. and XLVIII). Simple Commercial forms:-Receipts, Notes of Hand, Cheques, Drafts, etc., simple busing of ness definitions, simple business correspondence, making out and receipting bills, modes of remitting manor bet bills, modes of remitting money, keeping of a cash book, keeping of a simple account in Day Book-Ledger form.

Morton's Mechanical Drawing, Chapters III and IV.

Algebra:-Evaluation of formulae, and easy simple equations with application of the same to Arithmetical problem of the same to Arithmetical problems.

G. K. BUTLER.

PROVISIONAL NATURE STUDY COURSE.

It probably This course of study is meant to be suggestive, not prescriptive. contains more than can be done in any school in the time allowed for Nature-Study. It is expected that the teacher will attempt only that It is expected that the teacher will attempt only that part of the course which can be done with profit in his, or her school. Some teacher done with profit in his, or her school. Some teachers may know of better topics for their schools than those suggested here. If so, they are advised to use such topics, any case, in the lower grades at least, the interest of the total to use such topics. any case, in the lower grades at least, the interest of the children and the availability of the material should chiefly determine the choice of the topics. The teacher should make a study of those things in nature with which the study of the should available the study of the s make a study of those things in nature with which the children are surrounded, and should be continually on the watch for those should be should be continually on the watch for those objects and changes in nature which can most profitably be used for educational support and changes in nature of the can most profitably be used for educational purposes in the school work. He, or she should also be well acquainted with the ability of the school work. should also be well acquainted with the children of the school, to know what they hat interested in as shown by their conversion. interested in as shown by their conversations and by what they do, and also what they are capable of being interested in as shown by the shown by th they are capable of being interested in as shown by the way they respond to suggest tions by the teacher. This knowledge of the child and its surroundings will suggest the best topics and order of topics for nature study.

The aim of nature-study is to give an interest in, and an acquaintance with and mon things and processes of nature: to develop the batter interest in and interest in the batter interest interes common things and processes of nature; to develop the habit of investigation, and incidentally to give useful information. The imparting of information being incidentation to awakening an interest and developing the habit of investigation that the to awakening an interest and developing the habit of investigation, it follows that the child's attitude toward the work should be always support. child's attitude toward the work should be always sympathetic. Nature study should be always sympathetic. Nature study The in quiping mind on any titlet. quiring mind, so essential to any work of investigation, can be greatly encouraged if the setting and solving of simple problems on the nature the setting and solving of simple problems on the setting and solving setting the setting and solving setting the setting and solving setting the se the setting and solving of simple problems on the nature-study work. It is better in these are the children's own problems, not the teacher's The formation of the setting and solving of simple problems. ine setting and solving of simple problems on the nature-study work. It is better under the setting and solving of simple problems on the nature-study work. It is better under the setting and most compared by the solution of the solution of the setting and how does it do it? As these problems are solved new ones will arise or does as long as the pupils are solving problems with reference to the materials before them, in other words, investigating.

"Whenever the comparative method can be employed, its use is strongly reconciled ded. Comparison includes contrast - that is included as well as the strongly reconciled as well as the strongly reconciled as well as the strongly reconciled as the strongly reconc Comparison includes contrast,—that is, the observation of differences as well arities. In objects that are alike intervention of differences differences differences as the intervention of differences differences. as of similarities. In objects that are alike, interest is excited by points of differences as we and conversely in unlike objects by the points of similarity.* * * * The dog suggested as an object of study but it is points of similarity.* * * * * suggested as an object of study, but it is easier and more effective to make a nature study lesson of the dog in comparison with the Observing the differences in the ways in which the horse and the cow eat grass in the pasture means more than twice as much training to the differences how either pasture means more than twice as much training to the child as observing how either one eats alone. One reason for this is that power to the child as observing how is pretty one eats alone. One reason for this is that paying attention to the differences is pretty sure to cause the observer to wonder about their causes "Dragness."

Teachers who have difficulty in finding time for nature-study can overcome this in a measure by having some of the work incidental and informal, and by making correlations with the other school work. Suggestive correlations with the other school work. Suggestions may be made to the pupils for observations out of school hours, or problems (not tasks) set for solution at home. In and around the school there should always be objects of interest for observations such as plants in flower pots, window boxes or cordens; insects in breeding cage, such as plants in flower pots, window boxes or gardens; insects in breeding cage,

living things in aquariums, etc. Collections of natural objects may be made by the children with a view to awakening an bildren, and informal talks given on these by the teacher with a view to awakening an interest in the shidren looking for things in their surroundings. interest in nature and starting the children looking for things in their surroundings. In teaching the children looking for things in their surroundings. nerest in nature and starting the children looking for things in then sufficience in In teaching language, written or oral, drawing, number work, etc., correlations with sature-study will add to the value of the teaching in these subjects and time will be

Nature-study is always from objects, never from books, notes, or telling. hature-study is always from objects, never from books, notes, or tening. be, and often is, used in teaching the other subjects, and it is then that the best teaching is done for it, used in teaching the other subjects and it is then that the best teaching is done, for the nature-study method is the one pre-eminently suited to the Common school.

GRADE L.

PLANTS. Flowering plants such as golden rod, aster, burdock, dandelion, tulip, and PLANTS.—Flowering plants such as golden rou, aster, burdock, dandenon, tunp, plansy. Recognition and names of flowers. The whole plant—root, stem, leaves, Structure of such seeds as a nasturium. Watching and caring for the plant. falling of lower falling of leaves.

BUDS.-Watching the unfolding of buds in the schoolroom, as horsechestnut, beech, lilac and willow.

 $F_{RUITS,--}Apple, \ pear, \ plum, \ etc. \ Color, \ odor, \ taste, \ parts \ and \ uses.$

 $V_{EGETABLES.--Potato, onion, carrot, turnip.}$ Color, parts and uses.

 A_{NIMALS} —Pet animals. Simple observations on such pets as cat and dog.

 I_{NSECTS} .—Watch development of caterpillars in breeding cages. (A cage may be of a set Watch development with glass or netting.) \mathbf{m}_{ade} of a pasteboard box covered with glass or netting.)

BIRDS.-Learn to see and hear them.

in the class calendar. N_{ATURAL} PHENOMENA.—Daily observation of the weather recorded by the teacher

GRADE II

PLANTS.—Learn to know the wild flowers found. Note the color, odor and home plant.—Learn to know the wild flowers and leaves of evergreen. Planting a seed of the plant. Learn to know the wild flowers found. Note the color, one and none as a plant. Learn to know the trees, cones and leaves of evergreen. Planting a seed a plans. the plant. Learn to know the trees, cones and leaves of constant, the plant. a plansy, or starting a slip as a geranium. Watching and caring for the plant.

the sed line out of the ground. Parts of the seedlings—root, stem, leaves. Seed leaves: their tailing and set of the ground. Parts of the seedlings—root, stem, leaves. Planting a bulb as behavior of the ground. Parts of the seedlings—root, stem, leaves. Dect leaves, their behavior of the ground. Parts of the seedlings—root, stem, leaves. Dect leaves, their behavior of the ground. Parts of the seedlings—root, stem, leaves. Dect leaves, their behavior of the ground. Parts of the seedlings—root, stem, leaves. Dect leaves, their behavior of the ground. Parts of the seedlings—root, stem, leaves. Dect leaves, their behavior of the ground. Parts of the seedlings—root, stem, leaves. Dect leaves, their behavior of the ground. Parts of the seedlings—root, stem, leaves. Planting a bulb as the set of the ground stem is the seedlings of the hyacinth, narcissus, onion, etc., in the garden or nower poor fracting develop-net of plant. Structure of such seeds as bidens, agrimony, ash, thistle, ragwort, with reference to means of dispersal.

bean, corn, tomato, etc. FRUITS AND VEGETABLES.—As strawberry, raspberry, currant, grape, orange, etc.,

theep, etc. A_{NIMALS} .—Domestic animals of the farm. Simple observations on the cow, horse,

Letamorphoses of a few large butterflies and moths. INSECTS. Watch development of caterpillars in cages. Collect cocoons and galls.

 B_{IRDS} . Watch for birds as they come and learn to know a few of them.

NATURAL PHENOMENA. --- Steam, clouds, rain, dew, frost and snow. Weather chart

GRADE III.

Parison of the forms of evergreen and deciduous trees. Parts of the flower as in tiger P_{LANTS} Learn to know wild flowers found. Learn to know the trees.

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lily. Use of pistil to bear seed. Stamen to bear pollen. Growing of plant from seed or slip, as sweet pea and fuchsia. Seed dispersal, by wind, by water and by animals. Study of one or two evergreens. Experiments in germination and planting of seeds. Opening of buds. Opening of buds.

ANIMALS.-Common wild animals, as squirrel and rabbit.

INSECTS. -Insects in breeding cages. Aquarium life. Life history of cabbage erfly, or a beetle butterfly, or a beetle.

BIRDS.—Watch for and identify birds as they come. Learn to know their songs habits and habits.

NATURAL PHENOMENA .---- Steam, clouds, rain, dew, frost, snow. Weather chart.

GRADE IV.

PLANTS. -- Learn to know the wild flowers found. Learn to know the trees, as spruce, fir, pines, ash, etc. Parts of flower, uses of the parts. Growing of plants. Experiments in germination and planting. Development of buds in schoolroom.

ANIMALS.—Comparative study of pet and domestic animals, as for example, the rence between the teeth of a dog and a gove with the difference between the teeth of a dog and a cow, with the reasons therefor.

INSECTS. Insects in breeding cages. Collect cocoons and galls. Watch metar morphoses of conspicuous butterflies and moths. Life history of some common insects, as currant worm.

BIRDS.—-Identification of birds by plumage and song. Learn their food, nests. and habits.

NATURAL PHENOMENA.-Evaporation, condensation. Simple lessons on golds, n to recognize the most common rocks and mineral of simple lessons for cor Learn to recognize the most common rocks and minerals of section. Learn a few cor-spicuous constellations and note their motion as the Direction. spicuous constellations and note their motion, as the Dipper, Orion and Taurus.

GRADE V.

PLANTS.—Learn to know the wild flowers, continued. Trees, their forms and Begin a collection of different kinds of wood. Les uses. Begin a collection of different kinds of wood. Learn to know the weeds, as ragwort, sow thistle, wild carrot at a Best of the form ragwort, sow thistle, wild carrot, etc. Parts of the flower and uses of the parts. Study of an easy family, as crucifere. Seed disposed entities of the set of the parts.

ANIMALS.—Toads, frogs, snakes, etc., habits and uses. Fish, forms, and uses of rent parts of their bodies. different parts of their bodies.

INSECTS.—Injurious and beneficial insects developed in breeding cages, as potato le and lady-bugs. beetle and lady-bugs.

BIRDS.—Identification of birds by plunage and song. Learn habits of a fe^{W, 95} common sparrows and note their use to make the source of the s the common sparrows and note their use to man as weed destroyers.

INORGANIC WORK.--Keeping of weather chart. Experiments with the magnet, pass. Learn a few constellations and planets. Learn a few constellations and planets, and note motions of the heavenly common minerals. Study of candle floater and note motions of the heavenly bodies. Common minerals. Study of candle flame. Experiments with the heaven and carbon-dioxide. Ventilation.

GRADE VI.

PLANTS --- Wild flowers, continued. Trees, their forms and uses. Collection of ous kinds of woods. Collection of trees and the second trees trees. various kinds of woods. Collection of trees, their forms and uses. Collection trees from seed. Study of weeds continued as knoweds. Starting a nursery of native trees from seed. from seed. Study of weeds continued, as knapweed, rattle box, and cadlock. Study of two or three easy families, as cruciferæ, leguninosæ, and rosace. Seed dispersal con-tinued. Pot experiments in drainage and growth of plants. Work of roots and stems.

ANIMALS.-Adaptation of structure of different kinds of animals to their respective habits, as for example, the teeth of rodents, claws of climbing animals. Protective

- INSECTS.-Injurious and beneficial insects, as cutworm, tent caterpillar, browntailed moth, tussock moth, dragon fly, bee.
- BIRDS.-Identification and life. Usefulness to man as companions. As weed and insect destroyers.

INORGANIC.-Movements of sun, moon, planets and constellations. Minerals and rocks. Experiments with soil. Osmosis.

GRADE VII.

PLANTS.—Study of wild flowers, continued. Further study of weeds, annual, bien-minosae, perennial. Methods of eradication. Study of easy plant families, as legu-With reference et al. Work of bees observed. An accurate of flower With reference to insect pollination. Work of bees observed. An acquaintance with mushrooms, bracket fungi, puffballs, horsetails, and ferns to extend the meaning of plant ife. Plant, bracket fungi, puffballs, horsetails. Work of leaves. Grafting and budlife. Plant store houses of food with starch test. Work of leaves. Grafting and budding.

ANIMALS. Study of animals in relation to man. Animals useful to man, as cow, horse, sheep, toad, etc. Animals harmful to man, as rat, mouse, mink, weasel, skunk, for, etc. Animals harmful to man, as rat, mouse, mink, weasel, skunk, lox, etc.

- injurious to field crops, insect parasites. Aquarium life, mosquito and caddice worm. INSECTS.—Life histories of injurious and beneficial insects, as orchard pests, insects
- a_{wl} , B_{IRDS} . -Identification and life. Use to man of such birds as robin, crow, hawk,

INORGANIC WORK.—Such study of physical geography as can be carried on by the treatments. Ormosic hature study method. Minerals and rocks of the section. Soil experiments. Osmosis. Chemistry of the air. Study of flame. Experiments with oxygen and carbon dioxide. Experiments with air and water.

GRADE VIII.

Study of cross and longtiudinal sections of a piece of wood. Pith, bark, medullary rays. Study of cross and longtiudinal sections of a piece of wood. Finn, bark, menunary rays. A piece of wood and the section of the section of the section of the section of stems of bean and corn. Noxious weeds; their characters and eradica-tion. Study of families, as heath, violet, pink, figwort, evening primrose and thistle families. Flowers in relation to insect pollination, as Mayflower, snapdragon, pansy, the section of different fertilizers. etc. Experiments to show the effects of seed selection and action of different fertilizers.

ANIMALS.-As in grade VII., continued.

of treatment. I_{NSECTS} .—Life histories of injurious and beneficial insects of section. Methods

BIRDS.-Knowledge of the lives and uses of birds to man.

INORGANIC WORK.—Work of grade VII., continued. The making and use of the betism. barometer, barometer and rain gauge. Simple experiments in electricity and mag-

USEFUL BOOKS FOR THE TEACHER.

First Studies in Plant Life, by Atkinson. Ginn & Co. 60 cents.

Stories of Insect Life, by Weed. Ginn & Co. First and second series. 30 cents

Bird Neighbors, Neltjie Blanchan. Doubleday, Page & Co. \$2.00

The Nature Study Course, Dearness. Copp, Clark & Co. 60 cents.

HYGIENE AND TEMPERANCE.

In view of the omission from the High School Program of the course in physiology and hygiene, it is important that, in the common school, instruction in the care of the body, the laws of health, and the evil effects of using alcohol and tobacco, be made as effective as possible. To accomplish the best results it is necessary that, besides formal instruction,

- (a) The school should at all times exemplify in the person of the teacher habits of scrupulous cleanliness, of tidiness of hair and apparel, of easy movement posture, and manner.
- (b) The school authorities should provide for the regular and frequent cleaning of the rooms.
- (c) The teacher should manifest a constant concern for the personal comfort of the pupils, the proper heating and ventilation of the school-room, the supply of fresh water, the cleanly habits of the pupils, their frequent refreshment by means of recesses and physical exercises, their games, their gait and posture.

In the first four grades no formal instruction is needed. Some knowledge of the human body may be incidental to the "nature" work of those grades; but the teacher whose personal habits and management of the school are properly influenced by an acquaintance with hygienic principles, is measurably safe in omitting in those grades everything of the nature of *laws* of health, trusting entirely to a few *rules* of health pertaining to cleanliness, fresh air, sleep, the use and care of the teeth, posture and movement.

The teacher should know that restlessness and changefulness of interest are the normal condition of the child in waking hours, and should, in accordance with this fact limit the duration of periods devoted to sitting still, or to any one task. She should in all classes endeavour to note the approach of fatigue, which is, in general, indicate by the failing interest of the average pupil. She should be conversant, with define for restoring interest and banishing fatigue through change of occupation, through free for restoring interest, and through short intervals of unsupervised freedom. In general, it is expedient for her to have the pupils understand each new procedure a dopted for their comfort, interest, and contentment. In no long time, what was mergy a rule will come to be understood as a law; and, by the recognition of law as the bar of rules of health and of life, the pupil will profit not only physically but morally. great point is, indeed, made when the teacher has thus convinced her pupils of her uine and intelligent interest in their physical well-being; for, having once gained their confidence and good-will, she need have little fear of committing them to any reasonable task.

The requirements of our Provincial Statutes make it necessary to put "The Health Reader" into the hands of the pupils of the upper four grades. There is, we regret to note, ample evidence of the unintelligent use of this book, which, great as are its merits as a reader, lends itself to mindless repetition, and to the worst forms of abuse of the question-and-answer method. A partial corrective may be obtained, we belief velow a different order and treatment from that given in the Health Reader; and by using the latter as a book of reference and a reader,—the use for which its title would seen to intend it.

The true purpose of lessons in hygiene and temperance is to "enforce" upon the individual the facts and principles involved. It is difficult to believe that the time of pupils is well spent in learning book facts about the teeth and the skin, unless the teecher uses her best endeavors to promote the use of tooth-brush and tub. And so every principle and practice dealt with in the text-book. Right conduct in the essent tials of hygiene is the real end; and the method of instruction, wherever possible, should be identical with that in nature-study. For example, the phenomena of heart-beats, artery-pulsations, increased rapidity of pulse after vigorous exercise, flushed face, bleeding and bandaging, are easily observable by children, and should form the data for a first-hand study of the heart and the circulatory system. Similar treatment is easily applicable to the study of the teeth, the lungs, the stomach, the phenomena of fatigue, sleep, colds; of the effects of sunshine, bad air, tobacco (especially if the school itself provides a "horrible example:") Rudimentary and common-place as the child's observation of these phenomena may be, it is of the highest importance for promoting his interest, and cultivating an inquiring attitude; and we have little faith in instruction that proceeds by any other course. The place of the Health Reader in each lesson is posterior, not anterior to the study we have above indicated, and its usefulness will prove to be commensurate with the effectiveness of the preceding lessons. Such lessons are "nature-lessons," and they should, at indicated in the present course of study, be permitted to supplant from time to time the usual "nature-lesson."

We would point out here that the Health Readers omit to explain the nature of germ-action, of disease, and of simple preventive measures. Lessons on these topics ought to be comprised in the outline of work for the upper grades, germ-action being easily illustrated in the lessons on plant life. A few suggestions for lessons in first aids to the injured we would also recommend adding to the outline.

To recapitulate we would recommend

(1) The setting out of topics for study in each grade,

(2) Outlining two or three lessons or lesson-plans to illustrate method,

(3) Including in the topics those of disease and prevention with special reference to tuberculosis and first aids to injured and to drowned.

and (4) Recommended more stress be laid upon the teaching of (a) effects of alcohol harcotics contained in patent medicines, (b) the moral and economic aspects of temperance.

PHYSICAL EXERCISES.

A system of physical exercises for children is at present being introduced into the public schools. The exercises are fully described in the text and illustrated by diagrams. No exception can be taken to the exercises, as they are the ones recommended by the English Board of Education. It will remain for the Education Department, by a few brief notes, to instruct the teacher in the choice of exercises best suited to young children, and to explain the peculiar effects and value of certain classes of exercise.

MUSIC.

Some purposeful treatment of musical instruction and singing we would recommend with needful. Owing to the continual changing of teachers, the unmusical alternating with the musical, the development of musical knowledge, and of the ability to sing at sight is discouragingly slow. The ubiquity of the reed-organ and the piano rendered who cannot play some instrument. Teachers who cannot sing at sight cannot teach in giving only a perfunctory attention to the singing of the school. Means should be in value the musical exercises of some schools where sight-singing is taught. Singing, taken to correct this fallacy. Well conducted expressive singing is taught. Singing, the child, emotional, no less than intellectual experiences should be provided. "These expression in school, (the teacher has others); and, for the well-balanced development "conditions are satisfied in a high degree by national or folk songs, which are the expression in the idiom of the people, of their joys and sorrows, their unaffected patrio-"the carly and spontaneous uprising of artistic power in a nation, and the ground on "their all national music is built up; folk-songs are the true classics of a people, and "their all national music is built up; folk-songs are the true classics of a people, and "their all national music is built up; noves that their appeal is direct and last-"the all national music is built up; folk-songs are the true classics of a people, and "their specified is built up; folk-songs are the true classics of a people, and "their specified is built up; folk-songs are the true classics of a people, and "their appeal is direct and last-

The important source of supply of teachers competent to give instruction in sight singing is the Provincial Normal School. For these no detailed instruction ought to be necessary; but there is a fair proportion of untrained teachers who have musical feeling and who are competent to teach songs by rote, and these should be encouraged and aided by a few brief instructions. Two matters appear to us as especially worthy of treatment: treatment:

(a)The proper use of the voice in singing.

The choice of suitable and worthy songs. (b)

In dealing with the use of the voice, instructions should be emphatic, to see to it, first that children use their singing-voice or "head" register, (the use of the "head" register is could be the "head" register. register is easily ensured by the child's singing up the scale in the "chest" register, until the voice breaks, and continuing his singing in the "head" notes which ascerd from there); secondly that pupilie large a held in the "chest" register and a scale in the "chest" register. from there); secondly that pupils learn each year a half-dozen or more good songs. Our recommendations in respect of these two matters spring from the well known facts that the use of the "chest" register in singing leads to shouting and to straining of the voice, to the permanent injury of the vocal organs; and that the school songs of to-day are distinctly measure both in purior and in words then the are distinctly meaner both in music and in words than they ought to be.

Besides having a little sheaf of songs of Canadian origin, we Canadians have a proper inheritance in the ancient hymns of the Church, in the Christmas Carols, in the national and folk songs of England, Ireland, Scotland, and France; and it is a thousand pities that our children should not be learning and singing these in school and out instead of contenting themselves with characterless songs from American so-called "School Song" books, and scraps of contemptible ballads gleaned from vaudeville. For the upper five grades of the common school there should have the school school there there is the school th For the upper five grades of the common school there should be no great difficulty in selecting good songs, and such song as well as here should be no great difficulty in iterary selecting good songs, and such songs, as well as being precious in melody and in literary quality, will often associate the songs, as well as being precious in melody and in literary quality, will often associate themselves with our common religious and moral experiences, or with historical and geographical incident. Consider, for example, such Christmas songs as "It Cane Upon a Midnight Clear," "We Three Kings of Orient Are;" an-cient hymns like "Conquering Kings their Titles Take," "The Strife is O'er, the Battle Won," "O Come, all ye Faithful;" songs associated with our past and the countries of our forefathers, such as "Flowers of the Forest," "Caller Herrin," "Tara's Hall," "She is Far from the Land," "Rule Britannia," national hymn⁵⁶ as those of France, Germany, Russia, Denmark: Canadian songs and the stately as those of France, Germany, Russia, Denmark; Canadian songs, such as the stately "O Canada," which was sung with effect at the Quebec Tercentenary, and "A Canadian Boat Song." The English "Suggestions to Teachers" lists some two hundred national Songs suitable for the generation and matter of the some two hundred national songs suitable for the common school, and most of them are accessible in music books universally available or are printed in music books universally available or are printed in penny sheets.

In the lower departments of fully graded schools there is need of songs within the musical capacity of infants, and a little book of such songs, comprising a few "action" songs," it would we think he will the work of such songs, comprising a few "action" songs," it would, we think, be well to select for recommendation to primary teachers.

WRITING.

Children will in time learn to write somehow, no matter how poor the instruction Undoubtedly, all and some may even learn to write well with a minimum of teaching. normal children can learn no write well with a minimum of teaching. Undoubtedly, is sort that begins right and continues right The provide the context of the sort that begins right and continues right. sort that begins right and continues right. The pedagogy of writing is an easy subject to master, and it is inexcusable in a teacher to the pedagogy of writing is an easy subject to to master, and it is inexcusable in a teacher to be content with the penmanship of her pupils unless it is at all times neat and legible are content with the penmanship of marks pupils unless it is at all times neat and legible, and unless the progress of a year marks an increase of fluency.

Neatness in writing proceeds from uniformity, chiefly uniformity of height and t; from a well-kept margin, and from cleanling, chiefly uniformity of height slant; from a well-kept margin, and from cleanliness.

Legibility, while partly due to the distinct fashioning of the letters, is dependent upon uniformity of height and slope also upon uniformity of height and slope.

Fluency comes from well-directed practice (which is an easy thing to say), and it st how and when to accomplish this that the twich is an easy thing to say). is just how and when to accomplish this that the teacher is often ignorant. Uniformity and legibility are qualities which participant while the teacher is often ignorant. Uniformity and legibility are qualities which persistent watchfulness will secure; but fluency will be secured only at the expense of some intelligent effort on the part of the teacher. Any teacher who will study a little penman's manual like McIntyre's "Guide" will easily learn to administer the exercises calculated to make the most learn to administer the exercises calculated to render penmanship fluent. The most

conspicuous omission on the part of our teachers is that of requiring frequent writing-exercises with a single and a sing exercises on loose practice-paper—exercises in tracing scrolls, spirals, m's, circles, loops, parallel in parallel lines, etc., by wrist and whole-arm as well as by finger movement.

To do the work properly, the teacher must not trust to distributing copy-books and allowing pupils to write at will and without instruction, suggestion, correction. hatruction, too, must be individual as well as to the whole class, for in the same grade there may be pupils of various degrees of proficiency.

ally ^{Specific} and systematic instruction in the teaching of writing is, we think, topic what complex feat. First, the form of the letter must be conceived, and to aid in visualizing the feat. First, the practised: for example, the teacher traces and retraces Specific and systematic instruction in the teaching of writing is, we think, espec-Visualizing it various devices are practised: for example, the teacher traces and retraces it on the board; or the pupil traces it on dotted lines. Direction of path in forming the letter point of the muscular coordinations required to trace or to the letter must be practised until they are automatic. In the meanwhile the position of pupil, of arm, of book, of penel, must be gradually brought to conform lesson must be given each day. Method and watchfulness in the first four years will leave no essentiale to be dealt with later, but for a teacher to set out with the comformately of the dealt with later, but of the meanwhile the composition. leaven must be given each day. Method and water thinks in the last four years win leaven o essentials to be dealt with later, but for a teacher to set out with the comfor-table doctrine that things will come right of themselves, is intolerable. Things may come right come right, but in the meantime the child may have expended undue time and energy upon the net the context of the may have left school, and, through deficient upon this merely mechanical task; or he may have left school, and, through deficient **Penmanship**, may have forfeited golden opportunities.

As soon as convenient the child should be shown how to make use of his powers of $p_{enmanship}$. Writing is not an end but a means, and this the child realizes to his great delight where $r_{enmanship}$. delight when he has been taught to write a note to parent, to Santa Claus, etc. A motive is motive is now provided for doing his best, and this motive should be kept operative in subsequent. ubsequent exercises in correspondence, business forms, themes, etc., throughout the grades of the exercises in correspondence. grades; for the execution of the written task presents a field for skill not only in com-position the execution of the written task presents a field for skill not only in composition, but in margining and spacing, and in the tricks of penmanship, and the pupil should more thanks a written production lacking in form. hould grow to regard as discreditable a written production lacking in form.

In this brief study we have indicated the progressive stages of instruction in penmanship according to which a course for the eight grades must proceed.

HYGIENE AND TEMPERANCE.

SUGGESTED COURSES OF TEACHING IN HYGIENE AND TEMPERANCE FOR BOYS AND GIRLS IN THE IN THE PUBLIC ELEMENTARY SCHOOLS OF THE UNITED KINGDOM OF GREAT BRIT-AIN AND FUELIC ELEMENTARY SCHOOLS OF THE MEDICAL PROFESSION IN THE AIN AND IRELAND. ISSUED BY THE COMMITTEE OF THE MEDICAL PROFESSION IN THE UNITED KINGDOM, CONSTITUTED TO PROMOTE THE TEACHING OF HYGIENE AND TEMPER KINGDOM, CONSTITUTED TO PROMOTE THE TEACHING OF HYGIENE AND $T_{EMPERANCE}^{MED}$ Kingdom, constituted to from Broadbent.

NOTE .---- IT IS PROPOSED THAT ONE LESSON PER WEEK BE GIVEN.

(Slightly modified by Committee of Sixteen).

TOPICS SUITABLE FOR CHILDREN UP TO SEVEN YEARS OF AGE (GRADES I AND II., VOVA SCOTIA).

To be gradually introduced in Sections according to age. (Oral instruction with obser**bation**. Book for Teachers' use adapted to such Instruction.)

and Position. —Sitting erect and standing erect. Chest position. Drilling, marching in sitting self-controlled movements. Injuriousness of crooked or cramped posture in sitting or standing.

PLAYING.—Play necessary for children. Teach games and train to be fair, to dances (open-air). avoid anger, selfishness and rudeness. Motion-songs and dances (open-air).

SLEEPING. Sleep needed by animals, children, and everybody. Children need nore sleep than adults because their ball. far more sleep than adults because their bodies have to grow very fast. Going to bed early.

EATING. -- What animals eat. What children should and should not eat. Why not between meals. The teeth and their care detail.

DRINKING. -- Water and milk good drinks. Tea and coffee not good for children inice of ring fruits healthful in the for the second seco The juice of ripe fruits healthful in the fruit, but not after being pressed out and allowed to stand. Beer, wine, and eider unweld to stand. Beer, wine, and cider unwholesome and injurious drinks. Beer renders people drowsy and less fit for work. The waterpail and cup and rinser; the fountain top; fresh water and covered pail top; fresh water and covered pail.

CLOTHING.—Of birds and other animals; of children. Summer and winter, damp dry clothing. and dry clothing.

Care of hair, teeth, nails, CLEANLINESS.—Soap, water and individual towels. nose, feet, clothing, and desk. Use of door mat.

GROWTH.—Helps to growth; wholesome food, work, play, sleep, fresh air and sup-e. Hindrances to growth such as alcoholic drinks and the superior of the superi Hindrances to growth such as alcoholic drinks and tobacco. shine.

Sweeping of schoolrooms; dust-banes, oils, etc.

Specify some cheap and effective home-made tooth-wash or paste and encourage ise. its use.

THE BODY AS A WHOLE.—Trunk, limbs, and head. Relation of correct position well-formed body. to a well-formed body.

THE NOSE .--- Use of handkerchiefs. Colds from breathing impure air.

THE ARMS AND HANDS .- Parts of the arm. Parts, uses, and care of the hand.

LEGS AND FEET.—Uses and parts of the leg. Parts of the feet. Proper dress and of the feet. care of the feet. Strong, swift feet.

Hearing THE SENSES.—Sight: use, guard against close work and poor light. Here ac training in quick and accurate hearing; how injured. Also, exercises in quick and ar curate seeing, tested by showing objects, arrangements, etc., by visualizing diagrams on black-board, etc.

TOUCH.—Where the sense of touch is located. Distinguish between objects that hard, soft, rough, smooth, etc. are hard, soft, rough, smooth, etc.

TABLE MANNERS.-As in American Syllabus, Second year.

TOPICS SUITABLE FOR CHILDREN OF ABOUT EIGHT YEARS OF AGE (GRADE III, A SCOTIA). NOVA SCOTIA).

(Oral Instructions, Diagrams and Simple Experiments. Book for Teachers' use adapted to such Instruction.)

Why air of rooms 1. PURE AIR AND BREATHING .- How air gets to the lungsneeds to be changed often. Importance of fresh air in the bedroom during the night. The airing of bedrooms in the morning The airing of bedrooms in the morning.

2. Food. Need of food for growth, strength, warmth. Effects of eating too much meat. or too often. Rules for eating. Proper choice of food. Effects of eating too much meat. Nature's foods for the young. Materials which furnish these.

3.-THE TEETH AND STOMACH. Trace mouthful of food from plate to stomach, ortance of good teeth; of change for Importance of good teeth; of chewing food. Loss of saliva in chewing or smoking

bacco. Evils of spitting. The stomach and gastric juice. Work and rest for the sto-mach. The stomach and gastric juice. Work and rest for the sto- \mathbf{m}_{ach} . Evils of spitting. The stomach and gastric junce. Work and the definition of the storage of giving alcohol to infants and children.

the desire of drinks; harmful drinks; drinks that injure the stomach; injurious effect of drinks; harmful drinks; drinks that injure the stomach; injurious effect of the desire trong and stewed tea; danger that cider, heer, or wine drinking may create the desire for more for more. Self-control in eating and drinking.

5. THE BONES.—Explain care of bones. Why sit and stand erect. Difference stude framework of the young and the old. Tobacco and alcoholic drinks liable to stunt growth of bones.

Exercise and proper food strengthen, alcoholic drinks weaken muscle. Soldiers march better and 6. THE MUSCLES.—How the body moves. Difference between muscle and fat. better and proper food strengthen, and acoustic work better without alcohol.

7. TOBACCO AND CIGARETTE SMOKING IN YOUTH hinder growth and healthy phy-cal and sometimes other harmful poisons. and mental development: contain nicotine and sometimes other harmful poisons.

TOPICS SUITABLE FOR CHILDREN ABOUT NINE YEARS OF AGE (GRADE IV, NOVA SCOTIA).

Diagrams, Simple Experiments, and Oral Instruction as before.) (Text-Books, adapted to grade, in hands of Pupils as additional source of information,

Jointe, how third and mineral matter in bones. Location of principal large bones. 1. THE FRAMEWORK. -- Why many pieces in human skeleton. Different shapes bones. Location of principal large bones. ⁵ bones. ¹HE FRAMEWORK. —Wny tuan, ¹ bones. Location of processing, ⁵ bones, ¹ Animal and mineral matter in bones. Location of processing, how held together. Effect of tight clothing or ill-fitting shoes. Sizes and

dency of beer to cause the storing of fat instead of the formation of muscle. Relation 2. MUSCLES.—How made up. How they move bones. Sizes and shapes. Tenof muscle and fat to strength.

Full, $R_{ESPIRATION}$.—Air as a purifier. The air passages. Air sacs of the lungs. Airing living. The advantages of well-developed lungs. How air is polluted. Airing living-rooms.

 t_{be}^{5} . CIRCULATION.—Right and left sides of heart. Veins and arteries. Veins that The blood seen. How the blood feeds the body. Need of good food to make good blood. The blood as an air carrier and a food carrier.

Spice, THE BRAIN AND NERVES.—Work of brain. How made strong and now rester, baking cord. Connection with legs, arms, etc. Alcohol benumbs brain and nerves, Self-control non-the slowly and less accurately, and therefore preventing study. On the outrol non-the life power of alcohol to weaken self-control. Effects of tobacco Setting them act more slowly and less accurately, and therefore preventing source on the growth and in life, power of alcohol to weaken self-control. Effects of tobacco on the growth of the body, on the moral habits of children.

but 7. THE SENSES.—Show that sense organs do not see, near, taste, touch, or --are only avenues to or instruments of the mind. Continue training of senses. 7. T_{HE} SENSES.—Show that sense organs do not see, hear, taste, touch, or smell, are only Continue training of senses.

Git 8. THE SKIN.—The skin a garment; why it does not wear out. Work of the skin. taking sold sweat glands. Danger of cooling off too quickly. Bathing as a preventive of u_{ton} cold. Cletting proper fit disposal of weight, protection for legs and feet. Inand sweat glands. Danger of cooling off too quickly. Bathing as a prevention of large cold. Clothing: proper fit, disposal of weight, protection for legs and feet. In-berature and reprint the person more prone to dsease. berature and rendering the person more prone to dsease.

preferable; proper dress. 3. Exercise. Good forms of indoor and outdoor exercise; why the latter is

TOPICS SUITABLE FOR CHILDREN OF TEN AND ELEVEN YEARS OF AGE (GRADE V AND VI NOVA SCOTIA.)

(Text-Books, adapted to age, in hands of Pupils, supplemented by Diagrams, Simpler eriments, and Ocal Instruction) Experiments, and Oral Instruction.)

The Part of meat which makes muscle. Good value of cheap cuts of meat; of vegetables fruit. Sources of common foods. Best increased and the source of meat; of vegetables and the source of meat; Food.-Milk and eggs the most complete food. Need of cereal foods. fruit. Sources of common foods. Best ways of preparing foods. Why food should be attractively served. Danger from contaminated water and bad milk. How tea should be made. The cause of decay: Detail work of months are be in the server. be made. The cause of decay; Detail work of moulds and alcoholic ferments. For mentation changes character of substances are of the substances of the substa mentation changes character of substances; use of yeast in bread-making. Jise food; alcohol a member of a group of poisonous substances. The nature of disease especially germ-action; sterilization; anticonsis and and the nature of disease of the sterilization anticonsis and the state of the nature of the sterilization and the state of the st especially germ-action; sterilization; antisepsis and sepsis. Bacteria, as illustrated by plant-diseases, yeast, etc. Tuberculoris This remote bits. plant-diseases, yeast, etc. Tuberculosis. This repeated in VII and VIII.

Bone DIGESTION.—The two sets of teeth. The cutting and grinding teeth-making food necessary for preserving the teeth. Tooth picks and tooth brushes. Dep tist's care. Forming taste for healthful foods in childhood. The epiglottis and clocking the gullet. Changes in food in the stomach. The interval The gullet. Changes in food in the stomach. The intestines and their blood vessels. How food is used by the muscles and other organized and their blood vessels. How food is used by the muscles and other organs. Action of alcohol in retarding digestion. digestion.

THE BLOOD.—Appearances of blood under microscope. Work of its corpuscient Blood and the second blood blood and the second blood bloo Clotting. Healthy blood necessary for strength of body and power of mind. and exercise to the strength of body and power of mind. vessels. Capillaries. Meaning of circulation. Relation of good food, pure air, and exercise to healthy blood.

THE HEART.---Number of beats per minute. Heart like other muscles strengthened by regular exercise. Note effects of violent exercise on heart; Effects of fear; of side and tobacco. Alcohol produces irregularity of action to heart of alcoholic drinks and tobacco. drinks and tobacco. Alcohol produces irregularity of action, weakens heart.

RESPIRATION.—Need of air in the blood. Where the blood comes in contact with air. Importance of breathing through the nose ""A in the blood comes in contact with , Structure the air. Importance of breathing through the nose. "Adam's apple." strugger of windpipe and lungs. Elasticity of lungs. Change of air in air-sace. Why air of breathed is unfit to be re-breathed. Development of the lungs by deep breathing by "forced respiration," by exercise. Avoidance of constriction of chest by tight and and waist-bands. Simple methods of ventilation in the born of chest by tight why and how dust should be avoided.

BODY HEAT.—Source of body heat. Oxygen and burning. Fuel foods. lations of heat by skin. Relation of clothing to body heat. Effect of exercise warmth, Effects of alcohol in division to body heat. warmth. Effects of alcohol in dissipating heat which is valuable to the body.

Excretion. Skin a protection. Cause of corns. Skin as an aid in removal of bath waste. Sweat glands. Deposits left on skin in perspiration; consequent need of bath ing. Alcohol enlarges capillaries of skin. Alcohol avoided by the transformers interprets into the statement of th ing. Alcohol enlarges capillaries of skin. Alcohol avoided by Arctic explorers automatication and nails; use and care. Why the hair needs for underclothing, and of bedding. Need of waste matter being properly expelled for the body and not retained. Cultivation of good habits in this record.

THE SENSES

1. SIGHT.--Pleasures derived from it. The eye: shape, bony socket and cushion of fat; muscles; tear-gland; lashes; lids; pupils. Danger in reading in too strong light or by twilight, when lying down, or when the average in reading of small type and poor paper. Uncleased light or by twilight, when lying down, or when the eyes shape, bony socket and strong and poor paper. Uncleantiness and "sore eyes," touching eyes with dirty fingers.

HEARING.—Outer parts of ears. Danger from blows or pulls. Protection from draughts and strong wind. Danger of picking ear.

3. SMELL.—Where the sense is located. Nerves of smell. Dependence of gap mals upon smell. Connection with taste. How affected by colds. Use in detection of foul air, gas, etc.

Regu

4. TASTE.—Importance to digestion of savoriness of foods. Note, especially the three of young vegetables, as contrasted with full-grown ones; of salad plants such as the crease protection of young peas and young beets green beans, etc. (In Nova Whe of 'ASTE.--Importance to ungested with full-grown ones; of salad plants such as bolic, cress, nasturtium; of young peas and young beets, green beans, etc. (In Nova be educated for the really nice things that are so casily available in summer needs the educated for the really nice things that are so casily available in summer needs by educated for the really needs needs and turnips. This topic wotia, tress, nasturtium; of young pines that are so casily available in summer needs be the taste for the really nice things that are so casily available in summer needs to best be developed in the school and home gardening efforts). Use. Papillæ of Nerves of taste. By what effected, flow dulled.

⁵, Touch.—Nerves in skin. Where touch is most delicate. This is desirable and necessary for work. Such delicacy impaired by alcohol. 5. Touch. Nerves in skin. Where touch is most delicate. Why delicacy of is desired.

THE NERVOUS SYSTEM.—The brain as a receiver and director of messages. Im and models of the organ of thought. Relation of attention and THE NERVOUS SYSTEM.—The brain as a receiver and director of messages. User blinking and motion. Cerebrum, the organ of thought. Relation of attention and clear the brain to be a substance of rest and sleep. Alcohol weakens power to a substance of rest and sleep. this and motion. Cerebrum, the organ of thought. Kelation of attention and com-binking to brain power. Importance of rest and sleep. Alcohol weakens power to the to recover power. Importance of the senses, and to take proper precautions against dan-Whing to brain power. Importance of rest and sleep. Alcohol weakens power with the recognize warnings of the senses, and to take proper precautions against dan-

TOPICS SUITABLE FOR CHILDREN OF TWELVE TO FOURTEEN YEARS OF AGE (GRADES (T. VII AND VIII, NOVA SCOTIA).

(Text-Books, adapted to grade, in the hands of Pupils supplemented by Lectures, Models, and Experiments).

Pool BLANT PHYSIOLOGY.—Sprouting and growth of plants: necessary commenced in seed. Plant respiration, oxidation, and work. Parts, structure, organs This seed. Plant respiration, oxidation, and work. Cells. Tissues. The seed. Plant and human physiology compared. Cells. Tissues. The seed. Plant respiration, oxidation, and work. Parts, structure, organic seed. Plant respiration, oxidation, and work. Parts, structure, organic seed. Plant and human physiology compared. Cells. Tissues. With already a digestion. Plant and human physiology compared. Systems. Health The seed. Plant respiration, outcome physiology comparea. Cens. Justice, a seed. Plant digestion. Plant and human physiology comparea. Cens. Justice, a seed, plant digestion. Plant and human physiology comparea. Cens. Health the cells. The cells are seed to be been plant life. the cells. Effect of alcohol on plant life.

 $t_{i_3}^2$, $F_{RAMEWORK}$.—Vertebral column the axis of the body. Remarks point of the set of th in man and animals. Correspondence of leg and arm pones. I append of bones; soft was of children. The shaft, cancellous tissue, red and yellow marrow of bones; soft children. of children. Joints; hinge, ball and socket joints.

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MUSCLES. Voluntary and involuntary. The stronger the muscles, the more b. Beer multished. Alcohol decreases muscular power and consequent working abili-the her, wine and the lossen precision of muscular movements. How MuscLES. Voluntary and involuntary.
 Heer mplished. Alcohol decreases muscular power and consequent working has been and cider tend to lessen precision of muscular movements.
 a been proved by experience and laboratory experiments.

4. HESPIRATION.—Breathing organs of land and water animals. Nasal passages, how months of diaphragm and chest walls. Chest and abdominal breathing. Voice: how to diaphragm and chest walls. Chest and abdominal breathing. Voice: how to disease of air passages and lungs; over-crowded, poorly-ventilated houses, when to disease of air passages and lungs; over-crowded, poorly-ventilated houses. Effect when the produced is training. Results of insufficient ventilation of rooms. Causes con-the produced; its training. Results of insufficient ventilation of rooms. Causes con-the produced; its training. Results of insufficient ventilation of rooms. Causes con-the produced is a second sec who or surfaces of air-passages and lungs, the surface of surfaces of air-passages and lungs, ack of out-tool entropy of surfaces rooms, insufficient food and clothing, lack of out-tool entropy disease.

Weinge Utactulation.—Valves and structure of the Nose-bleeding also, now checked. Wounds. Methods of checking bleeding. Nose-bleeding also, now checked. Wounds. Methods of checking bleeding. Nose-bleeding also, now checked. Wounds. Methods of checking bleeding. Nose-bleeding also, now checked. Wounds. Methods of checking bleeding. Nose-bleeding also, now checked. Wounds. Methods of checking bleeding. Nose-bleeding also, now checked. Wounds. Methods of checking bleeding. Nose-bleeding also, now checked. Wounds. Methods of checking bleeding. Nose-bleeding also, now checked. Wounds. Methods of checking bleeding. Nose-bleeding also, now checked. Wounds. Methods of checking bleeding. Nose-bleeding also, now checked. Wounds. Methods of checking bleeding. Nose-bleeding also, now checked. Wounds. Methods of checking bleeding. Nose-bleeding also, now checked. Wounds. Methods of checking bleeding. Nose-bleeding also, now checked. Wounds. Methods of checking bleeding. Nose-bleeding also, now checked. Wounds. Methods of checking bleeding. Nose-bleeding also, now checked. Wounds. Methods of checking bleeding. Nose-bleeding also, now checked. Wounds. Methods of checking bleeding. Nose-bleeding also, now checked. Nose-bleeding. Nose-bleeding. Nose-bleeding also, now checked. Nose-bleeding. Nose-bleeding.

⁶, T_{HE} D_{IGESTIVE} SYSTEM.--The alimentary cause., glands, and digestive properties of their secretions.

HygIENE OF DIGESTION.—Amount of food: as affected by age, activity, occupa-Moderation is preparation of food; reasons for cooking. Importance of regularity we dimate, etc. Preparation of food; reasons in deration in eating; of careful mastication.

Absorbertion.—Of fat, albumen, sugar. Storing of sugar, of fat. Use made of matter.

i.

Whit^{TRT}HON. --What it includes; composition, auguration of a food. Classes of foods: nitrogenous, or albuminous, starchy, Iat, and the start, what each supplies to the body. Food material in cereals, vegetables, fruit, and area to the body. The start of foods: indigestible food; unripe, over-ripe, or the start of foods: indigestible food; unripe, over-ripe, or the start of foods: indigestible foods: indigestible foods: Prinwhere is the supplies of foods: nitrogenous, or a food, where is the supplies of the body. Food material in cereals, vegetables, number of the supplies to the body. Food material in cereals, vegetables, number of the supplies of the body. Food material in cereals, vegetables, number of the supplies of the body. Food material in cereals, vegetables, number of the supplies of the body. Food material in cereals, vegetables, number of the body. Food material in cereals, vegetable

BEVERAGES. -- Water: forms found in Nature: necessity for water in the bold suffer spring, well, rain, river, salt, minered have kinds: spring, well, rain, river, salt, mineral, hard, soft, impure: principal sources of supply: and dangers of drainage, especially in sources of supply: and dangers of drainage. ply: and dangersof drainage, especially in gravelly soils with clay bottom, where wells and very easily contaminated; rain, wells survey as the survey of th very easily contaminated; rain, wells, springs, rivers, lakes; importance of pure and pure ice supplies. *Tea and Coffee*: sources, properties. *Nourishing drinks* the chocolate, cocoa, and cereal drinks; when most useful Non-alcoholic refreshing drinks lemonade, orangeade, these acid drinks; when most useful. Non-alcoholic refreshing drinks, accompaniments to starchy foods, unfermented fruit in the Alcoholic refreshing drinks. Alcohoit drinks: why not classed as foods; effect upon digestion; upon other functions of body.

EXCRETION.—How waste materials are formed in the body. Organs that report is skin, lungs, kidneys, liver, and large intesting. The body of the state of local is a kidneys. waste; skin, lungs, kidneys, liver, and large intestine. Importance, size and low in of the kidneys; connection with circulation; separation of worts. of the kidneys; connection with circulation; separation of waste. How the liver moves waste. Hygiene of liver and kidneys; how effect of waste. moves waste. Hygiene of liver and kidneys: how affected by alcoholic drinks.

7. THE NERVOUS SYSTEM.—Harmonious action of organs. Brain the centre rolling organ. Co-operation of nerves, spinal cord and constine. The sympatise controlling organ. Co-operation of nerves, spinal cord, and ganglia. The sympetric nervous system. Reflex action. Habit. Narcotics; alcoholic drinks, tobacco, oper effects upon the nervous system; dangers of moderate use and exist. effects upon the nervous system; dangers of moderate use. The selfishness and experience of the tobacco habit. Thirst induced by tobacco may be the selfishness and criteria of the tobacco habit. Thirst induced by tobacco may lead to the habit of driptif

First aids to injured, to drowned, to fainting persons.

Nature of disease, especially germ-disease, preventives; symptoms.

Additional Suggestions.

Writing. From the second or third grades insist on arm-movements (i. e. movement upon the pad of muscle on the forearm). During the period in which reprint the shapes of the letters were as a foregrad to what move child is learning to fix the shapes of the letters, no care need be taken as to what not ment he uses in so doing. There is no good reason what the should not used: it is of constitution. ment he uses in so doing. There is no good reason why the copy-book should not not used; it is of considerable value in providing model former f of the share of the solution of the soluti used; it is of considerable value in providing model forms for the letters, and will not be taken as to will not be taken as t and free, so, practice-paper, loose scraps, wrapping paper and lead-pencils, are materials for practice for fluency.

The arm-movements will achieve quicker results by following some system, and least, there are about ten units of form out of which to construct our small letters, and these units ought to be practised, especially in rbythmic or the state of the second se

In the arm movement the radius of activity of the pen-point is not great, out the teacher should not ask for big letters. Shading and flourishing should be discout aged, and the whole stress should be thrown upon three constitute.

- (a) good, legible forms of letters.
- (b) uniformity of height.
- uniformity of slope. (c)

The vertical is undoubtedly the hygienic form: but teachers should not interfer much with the pupils individuality in this respect and the should not informity is style. too much with the pupils individuality in this respect, providing there is uniformit, his style.

The Augsburg books have done a good deal to make Drawing and the new Prang books are even more deal to make Drawing's generation of the series The Augsburg books have done a good deal to make Drawing of The new Prang books are even more taking than Augsburg's ere o either series is their considerable Drawing. tractive task the objection to either series is their considerable cost.

Hygiene. In hygiene it would be best to follow the general plan given on pp, of the physiology, and some omissions with the mode of watters of how *Hygiene.* In hygiene it would be best to follow the general plan given on pp, it of the October, 1909, JOURNAL. Some onissions might be made of matters of the encourage the teacher to prepare lessons instead of inclining her to prescribe page it pupils to recite. Whenever possible she should follow the nature-study method, it the appeal to the observing faculty of the pupil.

HEALTH ORDERS AND INFORMATION FOR PUBLIC SCHOOLS.

TO SCHOOL TRUSTEES.

(DUST AND DIRT IN THE SCHOOLROOM.)

Physicians and scientific men have for years been studying dust, and its effect in causing disease. They have gathered it in schools dwellings houses, have examined whools, Public buildings and dwellings houses, have examined it under Public buildings and dwellings houses in which germs it under the microscope, added it to substances in which germs mil grow, have compared these germs with those known to cause different, have compared these germs of the great disease different diseases, and have found it to be one of the great disease

The finest and lightest dust which cannot be seen by the haked eye, or can only be seen as motes when a beam of sunshine beauses the for the most dangerous. passes through the room, is by far the most dangerous.

Many scores of times the dust collected in various places has b_{een} administered to animals (fed to them, injected into the lungs or u_{nde}). administered to animals (fed to them, mjecter death followed under the skin), with the result that sickness or death followed According to the germs present.

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> It is well-known that consumption of the lungs (tuberculosis), that great scourge of the human race, is spread by means of dust, and in 1 The dust of a room in which a and in hardly any other way. The dust of a room in which a consumption of the second s tonsum hardly any other way. The dust of a more deadly than are the skin of an animal usumptive has been spitting about the noon to skin of an animal causes it strychnine, and injected under the skin of an animal causes it strychnine, and injected under the dust is breath c_{auses} or strychnine, and injected under the dust is breath-equises it to die of tuberculosis in a few weeks. If the dust is breath-by a L e_{i} by a human being, he is very likely to contract the disease and

> Other disease germs are carried in the same way, and it has Very often happened that dust carried to a child's mouth by his to a construct the parents, or perhaps even the by a case of fatal illness without the parents, or perhaps even the physician, suspecting the true origin.

> for Nor is this all. Dust in any form, breathed in day area in the years, irritates and inflames the delicate tissues of the child's well-manured field, they become Nor is this all. Dust in any form, breathed in day after day Vears, irritates and inflames the delicate ussues of the secone a favoral, like a well-ploughed, well-manured field, they become a tavorable growing ground, so that when germs are inhaled, inthey flourish exceedingly and the child sickens, suffers and dies.

These are not dreams but facts, proved many times over by whose whole lives are site men whose whole lives are given to studying and fighting disease and I would correctly only only that and I would earnestly ask your sympathy and help in seeing that the following rules are observed as a second sympathy and help in seeing that the following rules are observed, and if we succeed in prevential even a little sickness, and in saving even one life, we shall have had our reward.

DIRECTIONS FOR THE CLEANLINESS OF THE SCHOOLROOM.

Have the Schoolroom, Halls and Entries swept every doy. Ι.

NOTE. - Every good housekeeper sweeps her house every day. How much more day. How much more necessary is it in a building where many children where many children are crowded together for six hours a day or h six hours a day, and into which dirt and gerns are dragged from and are dragged from every part of the section.

II. Raise the windows while sweeping, and keep them raised over time afterward. for some time afterward.

NOTE.—By keeping the windows open much of the dust will blow out

- III. Before sweeping sprinkle the floor with damp sawdust don't use water

 - NOTE.—Sawdust is the best substance, and can generally be easily obtained and least is and can generally be easily obtained and kept in barrels. It keeps the dust from vision and the dust from rising and settling again after the room is swept Sprinkling room is swept. Sprinkling with water simply binds the dust to the floor binds the dust to the floor, ready to rise again as soon as dry

IV. At least an hour before school opens the schoolroom should irefully dusted, especially the table of the school opens. be carefully dusted, especially the tops of desks, seats, window ledges, etc.

The schoolroom should be thoroughly scrubbed at least nth. V_{\cdot} every month.

> NOTE.—If scrubbing, perhaps every week, is necessary in our homes, how much more so in our school rooms, where there are so many to drag in dirt. Besides duct is Besides, dust is even more dangerous to children than to grown persons.

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t g e VI. Once a year the walls, floors, desks, etc., should, after being scrubbed, be wetted over with a mixture of carbolic acid and water, lour teaspoonfuls of the acid to a pint of water.

NOTE.—Such a cleansing of the schoolroom would kill all germs, and if this could be done at the Christmas vacation (germs are more virulent in winter) it would go far toward the health of the school.

TO TEACHERS.

Post a copy of the "Health Rules" for Pupils where it can be easily read.

 $I_{0r} \stackrel{\rm Give}{\rm them}_{\rm .}$ a series of short lessons on these rules and the reasons

^{reference} to them and, as far as possible, see that they are observed.

them and assist in carrying it out.

Try and persuade the physician of the section to impress upon the ratepayers the connection of dust and dirt with disease, and to to the the more frequent scrubbing and sweeping of the school-

Get a cover for it in order to keep out the dust.

The carrying out of the directions for the cleanliness of the on you, and the health of the pupils depends almost entirely Put into practice yourself the rules given for pupils. Your exthan these respects will carry more weight with the pupils anything else.

And Should your schoolroom become dirty, or the outbuildings of the premises be in an unsanitary condition, through the neglect Inspector at once.

NOTES ON "HEALTH RULES FOR PUPILS."

^{explain} and apply the rules more intelligently.

The germs which cause tuberculosis (consumption), pneumonia, la grippe, diphtheria and many other diseases, are found in the saliva, especially when mixed with secretions or discharges from the nose, throat or lungs. It is not uncommon for these diseases to exist in so mild a form that the child is hardly sick and yet such cases are capable of spreading the disease. The spit mixes with the dust on the floor, becomes dry, the germs are set free, rise in the air, enter the lungs and cause the disease.

Children are not careful as to what they handle and their chances of acquiring disease are much increased by putting their fingers into their mouth. fingers into their mouths.

The long passage from the nose to the lungs gives off and is to tantly wet with a sticky socration the lungs gives off and is to constantly wet with a sticky secretion, the object of which is to strain the dust disease germs and other f strain the dust, disease germs and other foreign substances from the air before it reaches the lunger of the strain the s the air before it reaches the lungs. It will be readily understood that this secretion, even from a hartfill that this secretion, even from a healthy person, might contain disease germs. disease germs.

Both paper money and coins are capable of carrying dangerous is. Remembering that many include the second s germs. Remembering that money is frequently handled by per sons affected with the most lost sons affected with the most loathsome diseases, the necessity this rule will be at once under the

The intelligent teacher will be able to apply the principles a above to all the rules and show the given above to all the rules, and show the pupils the great necessity of observing them of observing them.

CHILDREN SHOULD BE TAUGHT

to wash the hands and face often, and keep their persons and clothing clean: for if one should then he to clothing clean; for if one should then be taken down with a com-municable disease there will be taken down with a studies municable disease there will be less danger of infecting other pupils or things or things.

They should also be taught the reasons of the following rules, carefully watched and direct is reasons of the following rules, and carefully watched and directed until all objectionable habits are lost and replaced by good betty are lost and replaced by good habits. This duty is really the most important work of the teacher important work of the teacher, and should be done even should the teaching of the book lessons it. the teaching of the book lessons be delayed.

HEALTH RULES.

TO BE PLACED IN EVERY CLASS ROOM AND GIVEN TO EVERY PUPL

Remember These Things.

Do not spit if you can help it. Never spit on a slate, floot, idewalk. or sidewalk.

Do not put the fingers into the mouth.

Do not pick or wipe the nose on the hand or sleeve.

Do not wet the finger in the mouth when turning the leaves of books.

 $\sum_{n=1}^{n} b_n$ not put pencils into the mouth or wet them with the lips. Do not put money into the mouth.

Do not put pins into the mouth.

Do not put anything into the mouth except food and drink. Do not swap apple cores, candy, chewing gum, half eaten

food, whistles or bean blowers, or anything that is put in the mouth. Do not drink out of the common drinking cup before allowing some of the water to run over the edge of the cup that is to be applied to the lips.

Never cough or sneeze in a person's face. Turn your face ^{aside.}

Keep your face and hands clean; wash the hands with soap and Water before each meal.

A. P. REID, M. D.,

Provincial Health Officer.

FROM THE PROVINCIAL HEALTH OFFICER'S REPORT 1909.

SMALL POX.

The public are loath to recognize the fact that small pox has Prevailed for several years past in different sections of the Pro-Vince vince, and is likely to remain until all are protected by vaccination or other or otherwise; and the sooner that protection becomes general the sooner wise; and the sooner that protection becomes general the sooner wise; and the sooner that protection is specially needful with objective will the disease be eradicated, and this is specially needful with objective will the vaccination the more protection will with children—the earlier the vaccination the more protection will be c_{ont} . be conferred.

No child should be allowed to attend school unless protected, for Mo child should be allowed to attend the Board of Health of Halifary reasons; and the efforts of the City Board of Health of Halifary reasons; and the unreasonable opposition, particu-Halifax have encountered much unreasonable opposition, particu-larly f. These people may be sincere, ary from the anti-vaccinationists. These people may be sincere, but the but they are ignorant of the experience of the world on this subject, or at least misinformed.

To the end that all objections should be definitely and correctly To the end that all objections should be deminicipy and constraints were determined and the following letter was sent to the Chronicle, Herald and Berlin the following letter printed and distributed. Prejudice and Recorder, which was duly printed and distributed. Prejudice is too often quite uninfluenced by argument, and even by demon-ber it continuous effort is needed on the stration; and to combat it continuous effort is needed on the principle that "the steady drop will pierce a stone."

LETTER TO THE PRESS.

MIDDLETON, N. S., May 8th

· DEAR SIR:

I have been an interested though unconsulted observer of the ussion on this subject and the second s discussion on this subject, and it appears to me that there are some facts that were not provide facts that were not prominently enough brought forward, and with your permission I will summarize a few.

In the unprotected, small pox is the most painful, loath 1st. some and fatal disease that affects humanity.

Of late years it has been mild in character, presumably erited protection not not did in character, presumably due to inherited protection not yet dissipated, but liable at any time to break out fiercely 2nd. time to break out fiercely.

3rd. An attack of the disease confers immunity in some for but this protection diminist life, but this protection diminishes in time.

The Arabians discovered that inoculated small pox mas fatal and conferred immunity much less fatal and conferred immunity, and this practice at one time was in vogue, and so continued and this practice at one

5th. Vaccination was discovered by the immortal Dr. Jennel, h confers equal protection with any " which confers equal protection with small and harmless constitution tional disturbances and is only property in the interval of the station tional disturbances, and is only propagated by direct inoculation

Over 100 years of experience of this procedure in every h all classes of people last det clime, with all classes of people, has demonstrated its reliability.

7th. After 50 years of personal experience, I cannot recall⁸ in which injury resulted and case in which injury resulted, and such has been the result with my confreres—as far as I can far

If it did not produce some constitutional disturbance it useless, and it has no offered. would be useless, and it has no effect on those who are protected.

Deaths have occurred after vaccination as it may after h or injury. Clear proof any scratch or injury. Clear proof of its having been the cause is disputed. Post hoc error brobler has Post hoc ergo propter hoc is not always a reliable conclu sion.

Small pox is the only disease over which we have $c^{0,0'}$ 10th. trol.

11th. Why not control it?

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¹²th. A protected community can ignore small pox, and as well ^aprotected individual can travel or expose himself with impunity.

13th. Vaccination of infants gives protection for life and an immunity for a more lengthened period than in the case of adults, and why should a parent refuse this boon to his child?

¹⁴th. Leaving science *pro tem* for society, a red rag may fail to arouse a combative bull, but *compulsion* rarely fails to arouse the Briton to combative energy.

¹⁵th. But like the mettled steed when broken to harness, he can most efficiently place his weight in the collar, so our average Briton can carry out effective citizenship. Inter alia. Confederation aroused most intense opposition, conscientious scruples, &c., &c. But to-day are there more ardent or effective upholders of the B. N. A. Act than our whilom anti-confederates?

¹⁶th. Their response: the thing was wrongly done.

¹⁷th. But again there was no other way to get it done.

¹⁸th. If a thing be *right*, let it be done.

¹⁹th. That vaccination is right we have the experience of the ^{busly} to confirm; also that of the medical profession who strenuprovince for years. Again the health officers over the texts from the form of disease now prevalent, and a similar report ^{contest from} the other provinces, the United States and other ^{countries}

^{be} injured by vaccination—it may for a short time "be inder the weather," while the virus is producing within its constitution a something which will give it protection from small pox.

²¹st. With the care now used there is no fear of any disease conveyed by the vaccine—and but little in any case.

^{son} between it and an attack of virulent small pox. I have had $v_{accination}$, modified to some extent by a long antecedent

When small pox is rife. He may carry disease within himself that disinfection can eliminate and, pro tem, should be ostracized.

24th. The duty of the Board of Health is to protect the community from disease, and special attention must be given to schools and assemblages, and a *conscientious scruple* is no bar to conveyance of disease.

25th. We must recognize the right of a person to contract small pox or any other *disease* if he so wills it, but he has no right to impose it on another or to cause another to run any risk, and the duty of the Board of Health is to minimize this risk.

26th. Their effort to have all children vaccinated was dictated as much in the interest of the child as of the community, and as well to have the schools kept open and courses not interfered with during the recurrent small pox visitations that we are going to have intermittently until all are protected, when, and when only, it will die out.

27th. The present disease in many cases produces less constitutional disturbance than vaccination. Why not have it instead? There are two conclusive reasons against it:—it does not protect to the same extent as does vaccination, and it keeps up disease and illness in a community and makes that community a menace to others which vaccination does not.

28th. A conscience scruple clause is impracticable, however desirable it may be, and a Board of Health must carry out clauses 22, 23, 24, 25, &c., of the Public Health Act, as to them on due consideration seems best to meet the situation.

A. P. REID,

Chief Health Officer.

THE VACCINATION LAWS.

[COPY.]

DEAR SIR:

HALIFAX, 5th August, 1909.

Referring to your letter of 12th ult. to the Provincial Secretary in which you ask the following questions, viz:

1st. How far does the Public Health Act go in preventing unprotected children from attending school?

2nd. How far does the Public Health Act go in effectively carrying out general vaccination?

 $^{3rd.}$ How far does the Public Health Act go to prevent entry of unprotected immigrants?

I am directed to inform you as follows:

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lst. The Public Health Act, Section 22, provides in effect that if any infectious plague, disease or distemper has been introduced or there is immediate danger of its !introduction into any place, the local Board shall assemble immediately and may make regulations as occasion requires, etc. Section 45 provides in effect that a local Board may direct a general vaccination in any district Board of a district, etc. I think these clauses give each local tion.

^{2nd.} Section 22 of the Public Health Act, above referred to, think enables a local Board to pass a regulation to prevent unprotected children from attending school.

³rd. That section also, I think, enables a local Board to pass tected immigrants until they are vaccinated.

Yours truly,

FRED. F. MATHERS,

Deputy Provincial Secretary.

 D_{R} , A. P. Reid,

Prov. Health Officer, Middleton.

[FROM THE EDUCATION REPORT, 1909.]

From Table;XIV it appears that not one-half of the children attending school are vaccinated against smallpox. And we find public health officers closing schools on account of threatened epil called attention to this conduct last year; and recommend that neglected, no allowance henceforward be granted to schools on a unfair imposition on the intelligent minority, who protect thempublic for the public good at some personal sacrifice, to see the caution on the part of others. MEDICAL INSPECTION IN THE HALIFAX CITY SCHOOLS, 1909.

Dr. Allan R. Cunningham, Medical Inspector, reported as follows:---

In addition to the regular inspections, in September and October we have had to cope with an epidemic of diphtheria, and during these two months I personally examined the throats of over six hundred school children of the primary grades; excluding from school attendance any showing the slightest abnormality. Several of these cases subsequently developed diphtheria, at a safe distance from school, however. In all the schools instruction was given as to the best methods of prophylaxis, &c.

As we use the card catalogue system the first issue of ten thousand cards was exhausted during this year and ten thousand more have been printed on a somewhat improved pattern.

The low percentage of deformities and pulmonary tuberculosis is evident, but the latter disease usually does not develop till puberty, and the way has been prepared by adenoids, enlarged tonsils, carious teeth, etc.

We have observed that poor illumination of a school room has a decidedly injurious effect on the eyesight of the pupils, sometimes over 15% being unable to pass the test.

Like every other advance in civilization, the school inspector at first met with considerable opposition. This is now past and the majority of citizens are anxious to have their children examinedbeing at no expense. At least 60% take action when the delicate information is conveyed that the child is abnormal in some respect. Unfortunately many are absolutely indifferent to the welfare of their offspring. They are notified time and again but each examination shows the child gradually becoming more deficient physically and mentally. Expense is no excuse, as such cases can be treated free of charge, at the Dispensary or Victoria General Hospital.

I remain, Sir,

Yours respectfully,

ALLAN R. CUNNINGHAM.

HALIFAX SCHOOLS-PHYSICAL RECORD.

Number examined 3182.
Anæmia
Enlarged Glands
Chorea. 11
Card. Dis
Pulm. Dis
Skin Disease 13
Deform,
Defective Vision

205
Inflamed Eyes
Discharging Ears 136 Def. Nas. Breathing 1
Def. Nas. Breathing 1
Deformed Palate 21
Hyp. Tons
P. Nasal Growths
Treatment Recommended

Aside from the regular inspection of the year, it was found hecessary to take special measures for the control of epidemic diseases. This consisted in the individual examination of hundreds of healthy pupils and suspected cases, preparation of circular letters letters, and special instruction to teachers and pupils for preventing the end of the special instruction to teachers and pupils for preventing the spread of infection. This work is not shown on the table given

During part of the session it was necessary to suspend work On the regular examination because of the absence of a large pro-Portion portion of the pupils, on account of disease or fear of vaccination, irequired. frequently the very ones we wished to reach.

The work of the regular inspection covered 2158 pupils in seven schools only three having been omitted. The examination has here has been more searching and the figures are therefore a little higher on some on some diseases.

The results in tabulated form are as follows:----

Chorea 70 Cardiac Diseases 42 Skin Diseases 61	Defective Hearing31Discharging Ears12Defective Nasal Breathi'g103Deformed Palate2Hypertrophied Tonsils291Post Nasal Growth97Defective Vision298
ues	Deleter

It will of course be understood that several of these conditions Very frequently recur in one child. The great majority of cases do not recur Not require attention and many are already under treatment.

Eighty-two pupils were under treatment at the time of the examination. One hundred and thirty eight parents were recom-mended. mended to consult their family physician about their children.

Treatment adopted as a result of previous work 71.

The advertising work of the anti-tuberculosis League has done much to make the parents understand and appreciate the work of the Medical Examiners. Opposition to the inspection having practicult practically ceased, and expressions of gratitude from the parents who have had their attention directed to abnormal conditions in their children are not uncommon. This s encouraging. Im-proved the examination in the coming year proved methods will make the examination in the coming year even more effective.

JOURNAL OF EDUCATION.

THE ANTI-TUBERCULOSIS CAMPAIGN.

Instead of publishing further information in this JOURNAL which is already excessively full, teachers and others are directed to send a card to "The King's Printer, Halifax, N. S.' asking for a copy of the "Public Health Circular No. 27" and it will be sent promptly and free. In contains about thirty pages of the latest information respecting the treatment of Tuberculosis.

THE WHITE DEMON.

And How to Fight it

is the title of an interesting "fairy story" which can be read and understood by children, showing how "Consumption" is being treated in Ireland, where it is hoped to become extinct as leprosy became in 1767 after a fight of about a thousand years. Typhus fever is a later disease which has just been exterminated. 5 by 7 inch book of 112 pages was written by F. E. Eaton, with "foreward" by the Countess of Aberdeen; and is published by Maunsel & Co., of Dublin, -/4 net to pupils in National Schools (Ireland, 1/- in cloth.

SCHOOL GRANTS AND HEALTH.

Education Act, Chapter 52, R. S., Nova Scotia, 1900, Section 108.

"The Superintendent may, with the sanction of the Council, withhold in whole or in part the provincial grant from teachers who are *remiss* or *inefficient* in the discharge of their duties, and the grant from the Municipal School fund from sections failing to make reasonable provision for the health, comfort and progress of the children attending school."

Both teachers and trustees are therefore held by the law ^{re} of a part or the whole of the public funds provided for them under regular conditions.

It is the teacher's duty specially, to watch not only the health conditions of the school, but of the school section and the country in so far as they may tend ultimately to effect the school.

MEDICAL AND DENTAL INSPECTION OF PUPILS IN RURAL SCHOOL.

The extracts made above from the reports of the medical and $\frac{2}{5}$ ntal inspectors of the pupils in the Halifax Schools, are for the

purpose of aiding teachers, trustees and parents throughout the country, to think of the great importance and the little cost of arranging, as the law now allows school boards to do, to have the children in the school examined once or twice each year by the best medical man in their neighborhood.

The small cost for which this can be done all over the country is nothing compared with the amount of lifelong suffering which may be used of a few in every school, and the added may be obviated in the case of a few in every school, and the added years of healthy life which are likely to be secured for many of the pupils. This is really more necessary in the country than in the the pupils. This is really more necessary in the country than in the towns where doctors and dentists are always within easy reach. But even in Halifax, with all these advantages at a maximum, there is a maximum, there is a maximum and the second there have already been hundreds of boys and girls saved, who unknown to their parents were undergoing physical degeneration which which would soon have made life a burden, or cut it short. And still still a greater number not knowing what was wrong with them, or $n_{0,1}$ greater number not knowing to health vigor and future not knowing that a serious menace to health, vigor and future succession wing that a serious menace to health, vigor and their parents' success, had already set in, had their attention, and their parents' attents. When we are attention, called to their condition in good time. When we are spend: spending so much money in bringing foreigners to fill up our country, how much more should we be willing to spend the small amount necessary and daughters alive, in good health necessary to keep our own sons and daughters alive, in good health and vigor.

Parents! discuss this at your next annual meeting. Don't let the month of June pass without considering it. Authorize your trustees to arrange with the best local medical man to inspect and report upon the health of each pupil at school. At the following annual meeting pay close attention to the medical officer's report, and see, even if you have been so fortunate as to have received no benefit on account of the perfect health of your own children, if there will not be several cases in which candidates vigorous and useful life. Each such saved boy or girl is of more value than a foreign immigrant--very much more, for they are our own people. Instead of being invalids on our hands, they will be bagatelle compared with the life, light and labor saved in the school section.

Our Act is merely permissive, assuming as it were that our which are intelligent, and have been simply waiting for an Act tion. If school sections are so inert, or so blind to their common of the Legislature to make such inspection imperative. The legislature of British Columbia has just taken this step, and is therefore considerably in advance of Nova Scotia in the matter of tolerating inaction in so important a matter as the conservation of the public health in the schools. For the full information of all concerned the British Columbia law, passed only two months ago, is given below.

CHAPTER 45, (BRITISH COLUMBIA).

AN ACT TO PROVIDE FOR THE MEDICAL INSPECTION OF SCHOOLS.

[25th February, 1910.]

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of British Columbia, enacts as follows: \sim

1. This Act may be cited as the "Schools Health Inspection Act, 1910."

2. The School Trustees of every City and of every Rural Municipality School District in the Province of British Columbia shall appoint one or more School Health Inspectors, shall assign to each Inspector the schools to be inspected, and shall provide them with proper jacibities for the performance of their duties as Health Inspectors of Schools and School Children.

3. The Provincial Board of Health shall appoint, in districts out side cities or municipalities, one or more School Health Inspectors, shall assign to each Inspector the schools to be inspected, and shall provide them with proper facilities for the performance of their duties as Health Inspectors of Schools and School Children.

4. School Health Inspectors shall be duly qualified medical p^{rac} titioners: Provided, however, that the Provincial Board of Health may from time to time appoint persons other than School Health Inspectors to perform such duties as the said Board of Health may deem ner cessary or expedient.

5. (1.) Every School Health Inspector shall forthwith upon his appointment, and thereafter at least once in every school-year, or oftener if required by the School Trustees, make a thorough examination as to the general health of all children attending school in the District of which he is such Inspector, and of all teachers and janitors in such District. He shall also carefully examine all school buildings and school surroundings in his District, and shall report to the Board of School Trustees, fully and in detail, the result of such examinations. In such report he shall state whether or not he considers that the condition health of any child, children, teacher or janitor (naming them) is such as to endanger the health of the children at such school, and shall set forth its recommendations as to the school buildings and school surroundings.

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(2.) The Board of School Trustees for the District shall forth With act upon such report, and shall remove from the school any child or children, teacher or janitor whose health is so reported by the School and Health Inspector as being dangerous to children in such school, and such child, children, teacher or janitor shall not be permitted to return to sat to school in such District unless and until he or they deliver to the Board of en of School in such District uncess and unun ne or they denote to the School Trustees a certificate in writing, signed by the School Health Inspector for the District, permitting such return.

6. The School Trustees of every School District in the Province shall cause every child in the Public Schools to be separately and care-fully tested and examined at least once in every school-year as to the condition of threat and teeth, and as to any other ondition of sight and hearing, of throat and teeth, and as to any other physical of sight and hearing to brevent his receiving the full benefit physical disability or defect liable to prevent his receiving the full benefit of his of his school work, or as to whether he requires a modification of the school work is to whether he requires a modification of the school work is the school work in the school work is work in order to secure the best educational results. The tests of sight and h and hearing may be made by teachers having authority from the Provincial Board of Health. The School Trustees shall cause notice of any such a source of Health. Such defect or disability requiring treatment to be sent to the parent or Ruard: Ruardian of the child, and shall require a physical record of each child to be the child, and shall require a physical record of Health shall prescribe. to be kept in such form as the Provincial Board of Health shall prescribe.

7. (1.) The School Trustees, or teacher in charge, shall cause to $b_e \frac{7}{referred}$ (1.) The School Trustees, or teacher in charge, and $b_e a_{uly} \frac{7}{referred}$ to a School Health Inspector (who in such case must be a duly charge to a School Health Inspector and diagnosis, as follows:-duly qualified physician) for examination and diagnosis, as follows:--

(a). Every child returning to school without a certificate recognised by the local health authorities after suffering from or being exposed to any contagious or infectious disease:

(b). Every child who has been absent on account ol illness or from unknown cause:

(c). Every child who shows signs of being in ill-health or suffering from contagious or infectious disease; unless he is at once exeluded from school by the teacher:

(d). No child so referred to the School Health Inspector shall be permitted to return to school unless and until he delivers to the teacher in charge of the school a written certificate, signed by the School Inspector, permitting such return.

School Trustees or Teacher may make such other arrangements as may best carry out the purposes of this Act.

8. Whenever a child shows symptoms of smallpox, scarlet fever, whooping chickenpox, tuberculosis, diphtheria or influenza, tonsilitis, chickenpox, tuberculosis, diptheria or any other whooping cough, mumps, scabies, ringworm, trachoma, or any other in tagious cough, mumps, scabies, ringworm, trachoma, or any other that agious cough, mumps, scabies he shall be sent home immediately by the teach or infectious disease, he shall be sent home immediately by the teacher in charge of the school, or as soon as a safe and proper con-veyance of the school, or as soon as a safe and proper con-Veyance can be found, if such is necessary, and the Local Board of Health and School be found, if such is necessary be notified by such teacher. and School Trustees shall at once be notified by such teacher.

9. The Porvincial Board of Health shall prescribe the directions for tests of sight and hearing and shall prescribe and furnish forms for test cards, blanks, record books and other useful appliances for carrying out the purposes of this Act.

10. The School Health Inspector shall have supervision over all physical exercises of pupils attending school and in special cases may modify or prohibit such exercises.

11. The School Health Inspectors appointed under this Act ^{jn} cities and numicipalities shall receive such remuneration for their services, by salaries or fees, as may be agreed upon by the authority appointing them, and such remuneration shall be deemed to be part of the general expenses of the School District, and shall be raised and collected in the usual method of raising school funds.

12. It shall be the duty of the School Trustees of each School D^{is} trict to see that the provisions of the "Health Act" are carried out as regards the pupils attending school in their District.

13. School Boards of City and Municipal School Districts may pass by-laws and regulations for the better carrying out of the provisions of this Act, but the approval of the Provincial Board of Health shall be procured to such by-laws and regulations before they become operative.

14. All appointments made under the provisions of this Act by School Trustees must be made subject to the approval of the Provincial Board of Health; and the dismissal of officers appointed by School Trustese hereunder must be subject to confirmation by the Provincial Board of Health.

15. An annual report shall be made at the termination of every school-year by the School Health Inspector to the Provincial Board of Health; such report to be in such form as the Provincial Board of Health may require.

16. The Provincial Board of Health may demand at any time ^a report from any School Health Inspector on the health conditions of the children attending any particular school or schools, or on any other condition in or around the school which might influence the health of the children.

17. An annual report on School Health Inspection shall be prepared by the Secretary of the Provincial Board of Health and submitted to the Honourable the Provincial Secretary for presentation to the Legislature every year.

THE STRATHCONA TRUST.

For the Encouragement of Physical and Military Training in Dublic Schools.

1. This Trust is administered by an *Executive Council* for the Dominion which $\mathbf{m}_{eets at}$ Ottawa, and by a *local committee* constituted by the Dominion Executive for each Province.

2. The local committee for Nova Scotia has been constituted as follows:----

Latitime Provinces Command. Chairman:-Brigadier-General C. W. Drury, C. B., A. D. C., Officer Commanding

Members:-Rev. John Forrest, D. D., LL. D., President of Dalhousie University.

Joseph A. Chisholm, Esq., M. A., LL. B., Mayor of Halifax.

Graham Creighton, Esq., B. A., Inspector of Schools.

Lieutenant-Colonel W. E. Roscoe, 68th Regiment, Kentville.

Captain R. H. Graham, 78th Regiment, New Glasgow.

Captain A. H. Borden, The Royal Canadian Regiment, Halifax.

Secretary:---Captain A. H. Borden, Headquarters, Halifax.

 t_{ion} of the Dominion Executive, the duties of this local committee have been defined t_{ion} of the Dominion Executive, the duties of this local committee have been defined 3. Subject to the conditions of the donation, and the decisions and general direcas follows:-

evailable Ensuring that the means of instruction in physical and military training are for both teachers and pupils, where required.

and $\binom{(b)}{\text{competition}}$. Division of the Province into convenient districts for purposes of supervision

(c) Arranging details of the training to be given, so as to suit local conditions.

that the following are the general principles in accordance with which the Trust administered:

of th(a) His object being not only to improve the physical and intellectual capabilities also to bring hold the children, by inculcating habits of alertness, orderliness and prompt obedience, but the to bring hold to bring the children being the second to a realization that the first duty of a free the children, by inculcating habits of alertness, order mass and prompt openience, see to bring up the boys to patriotism, and to a realization that the first duty of a free dizen is to bring up the boys to patriotism, the intention of the Founder is that, while physical training and elementary drill should be encouraged for all children of both sexes att training and elementary drill should be attached to the teachwhile at school, with military drill and rifle shooting.

teachers or pupils, to share in the rewards, and the allotments of money should be so perfect themselves an inducement both to the teachers to instruct and to the pupils to Perfect themselves in the training specified above.

(c) The whole of the money grant, in the preliminary stages at least, is to be ted to encouraging the training refer to the preliminary stages at least $i = t_{inst}$ devoted to encouraging the training referred to in those schools and other educational establishments which are maintained out of a training referred to an those schools and other educational establishments which are maintained out of public funds.

(d) The allotment of the funds available for rewards between the several Provio ces shall, broadly speaking, be in proportion to their population of school age.

(e) Service, whether on the Executive Council or the local committees, shall be uitous. There shall be no fees characely a single to the local committees, shall be There shall be no fees chargeable against the Trust. gratuitous.

In the application of these principles, the Executive Council shall be the sole judge the intentions of the Founder and its desiring that the Council shall be the sole judge of the intentions of the Founder, and its decision shall be final.

5. PHYSICAL DRILL AND MILITARY TRAINING IN THE PUBLIC SCHOOLS OF NOVA SCOTIA.

(1) The Nova Scotia Educational authorities will enforce more generally their existing regulations which prescribe the practice of Physical Training and Military Drill in all public schools and will further when a subject of the Drill in all public schools, and will further adopt a system uniform with that of the other provinces of Canada, and of Great Britain, suitable to the age and sex of the pupils, and will encourage the formation of cade accurate to the age and sex of the sector. pupils, and will encourage the formation of cadet corps, and rifle practice, among boys of high school age, on the understanding that the Million of the practice among stre boys of high school age, on the understanding that the Militia Department, on its part, will will:---

(a) Provide competent instructors, at convenient places and seasons, in order to enable teachers, both those now employed in Nova Scotia, and those under training for such employment, to qualify themselves to come with the main and those under training military such employment, to qualify themselves to carry out physical training and military drill; and will also drill; and will also

(b) Grant an annual bonus to such qualified teachers as actually impart this interview. struction, provided that they make themselves eligible for this bonus by becoming members of the Militia Force members of the Militia Force.

(2) As regards the instruction of the teachers already employed, there appear to ur centres, at or near which a sufficient number of the teachers already employed. be four centres, at or near which a sufficient number of teachers are employed, there appendie classes to be formed and carried on in the avaning mith classes to be formed and carried on in the evenings, without interference with the ordinary day's work, viz:--Halifax, Sydney, Truro, Yarmouth, and possibly a fifth at Pictou or New Glasgow or Antigonish, may be added. Each course would be followed by an examination.

centres, it was agreed that such instruction might best be provided during the summer vacation, either at the Vacation School held at Thurse are provided during the school vacation, either at the Vacation School held at Truro, or at the Summer Science School of the Atlantic Provinces, wherever held. It is proposed the Summer Science held two of the Atlantic Provinces, wherever held. It is proposed in these cases to hold the courses of three weeks each, at each place followed by one of the two sets of the courses of three weeks each. courses of three weeks each, at each place, followed by an examination.

(4) The Militia Department will provide the Instructors required, dates and as being settled by agreement with the Education places being settled by agreement with the Education Department of Nova Scotia-

(5) In order to provide for the instruction of those students who are qualifying ecome teachers, the Militia Department will be those students who are qualifying to become teachers, the Militia Department will also provide a competent instructor to conduct a course of Physical Training and Milli to conduct a course of Physical Training and Military Drill at the Normal School, Truro, dates to be hereafter arranged, with the Education Orill at the Normal School, dates to be hereafter arranged, with the Education Department.

(6) In future the Education Department will, before granting a teacher's license er than third-class, require a certificate of the before granting a teacher's license higher than third-class, require a certificate of competency to instruct in Physical Training and Elementary Military Drill. This certificate, Grade B (Military), if desired, be issued after examination by the Department of Militia and Defence.

(7) The Education Department will within three years from the close of the ent school year, give an opportunity (as in the three years from the close above present school year, give an opportunity (as in 2 and 3 above) for all teachers above the third class who have been licensed without a the third class who have been licensed without the certificate of Grade B (Military) to obtain this lower certificate, so that no school of the certificate of the third class need obtain this lower certificate, so that no school of higher grade than third class need be without a teacher competent to give the provide that the school of higher grade that the school of h be without a teacher competent to give the prescribed physical drill effectively in all the departments of the school.

Grade A (Military) will represent competency to instruct both in Physical Training and advanced Military Drill, including rifle shooting, and will be issuable to male teachers and advanced Military Drill, including rifle shooting and will be issuable to male band advanced Military Drill, including rille shooting, and will be issued in the supervision of a Military School of Instruction. tion carried out at, or under the supervision of a Military School of Instruction.

Grade B (Military) will represent competency to instruct in Physical Training and Elementary Drill and will be issued to teachers of both sexes.

It to those teachers only who hold Grade A (Military) certificates and actually instruct the punils teachers only who hold Grade to the School Cadet Corps or members of the Militia. the pupils, and are in addition officers of the School Cadet Corps or members of the Militia.

Under the existing regulations for Cadet Corps, the Department of Militia grants to instructors of Cadet Corps who are on the instructional staff of the school or college Concerned oncerned, and who attend and obtain a qualifying certificate at any of the Infantry schools of the the same transport and allowances as are paid to officers of Schools of Instruction, the same transport and allowances as are paid to officers of Militia the Militia for similar attendance.

The annual bonuses will be paid upon the certificate of an Inspecting Officer of Militia the bonuses will be paid upon the certificate of an Inspecting Officer of the Militia that the instruction imparted is satisfactory.

by a School or College Cadet Corps in order to entitle a teacher to the annual bonus, will be will be the second state of t $^{(10)}$ The Militia Department will draft a syllabus of the work required to be done school $^{(10)}$ School $^{(10)}$ to entitle a teacher to the annual bonus and School or College Cadet Corps in order to charte a cadet Corps possess in their officers conduct the necessary examinations. Until Cadet Corps possess in their officers officers qualified instructors, this work of instruction will be carried out by instructors detailed instructors, this work of ar as practicable. detailed by the Militia Department, so far as practicable.

1908⁽¹¹⁾ The new system will, so far as possible, be brought into force on 1st August,

turally. The system of Physical Training adopted, should be Canadian Militia. With this object the change, to the system of drill in force for the Canadian Militia. With the object the change, to the system of drill in some in British Elementary Schools will be a block the change of the physical Exercises in use in British Elementary Schools will this object the Syllabus of Physical Exercises in use in British Elementary Schools will be to be supplemented, for more advanced by the Construction of the supplemented of the super supplemented of the sup be to the Syllabus of Physical Exercises in use in Druss and the supplemented, for more advanced than the present at any rate. It will be supplemented, for more advanced than the supplemented of the present at any rate. It will be supplemented for more advanced than the supplemented of the present at any rate. It will be supplemented for more advanced than the supplemented of the present at any rate. It will be supplemented for more advanced than the supplemented of the present at any rate.

1. AN 19 19 19 19 に以合わ ^{cal condition of the pupils.} The instruction given in the schools will be such as is suitable to the age and physi-

 c_{orps} The Department of Militia will be prepared to supply its the discovery super-belts, caps (if desired), a proportion of arms and ammunition, and, in addition, the schools the more advanced training. Uniforms, if worn, must be supplied by the schools themselves.

(14) The amount of the bonuses to be paid by the Department of Militia and the **binimum** number of boy members necessary to enable a Cadet Corps to be formed and the **boy the instant of boy members** necessary to enable a Cadet Corps to be formed at the instant of boy members necessary to enable a cadet boy boy will be fixed (upon the instruction of which the grant of the annual bonus depends) will be fixed the discussion of which the grant of the annual bonus depends) will be fixed the discussion of which the grant of Militia and the Education Department of the discussion between the Department of Militia and the Education Department of the province.

1909. Among the decisions of the Dominion Executive on the 2001 of invertice, which were duly transmitted for the guidance of the local minitee the following, which were duly transmittee for the guidance of the local committee for the Province.

 $M_{ilitary}$ The grant in each Province shall be divided between (a) Physical Training, (b) Drill, and (c) Rifle Shooting in the ratio respectively of 50, 35 and 15 per cent. (2)

 e_{hough} to arouse interest, the details to be left to the local committee as defined in minute. formal minutes.

Batt⁽³⁾ Cadet Corps, should as tar as possible, be inspected in Company drill; Drill; Outpost and Advance Guards; Manœuvre (attack and defence);

and Scouting. The percentage of marks to be allotted under the modifications recommended by the local Committee should be as follows

40% to Company Drill.

30% Extended Order. 20% Discipline, Cleanliness, Care of Arms and Accoutrements. 10% to Scouting.

Fifty per cent. to be allotted while the Cadet Corps is under the command of the tinstructor, and fifty per cent while Cadet Instructor, and fifty per cent, while under the command of the Cadet officers or non-commissioned officers or non-commissioned officers.

(4) The allotment of the prizes for Rifle Shooting and their division between "Service" and "Miniature" Shooting should be left to the Local Committee.

(5) The total grant to Nova Scotia for the school year 1908-9 was fixed at \$600. same amount was authorized for the school year 1908-9 was fixed at Cadet The same amount was authorized for the school year 1908-9 was fixed at prizes, and \$409 for Physical Training in the school year 1909-1910. \$400 for Cadet prizes, and \$409 for Physical Training in the common schools.

7. Among the more important decisions of the local Committee made at its first ting, on the 29th December, 1909, are the following. meeting, on the 29th December, 1909, are the following:-

(1) The Physical Training system shall be that of "The Syllabus of Physical Exercises for Public Elementary Schools, 1909" (Great Britain), with such modified tions of a few commands and movements (to articulate better with the Greation Milling tions of a few commands and movements (to articulate better with the Canadian Millits Drill) as may be decided upon and be nullished in the letter with the Canadian Millits Drill) as may be decided upon and be published in the Journal of Education.

(2) The present twelve inspectorial divisions of the Province shall be the pro-ial subdivisions for supervision of and and supervision of the province shall be the for vincial subdivisions for supervision of, and competition in, Physical Training for the Strathcona prizes, the four hundred dollar matter and the supervision of the s Strathcona prizes, the four hundred dollars under the clauses 6 (1) and (5) preceding shall be apportioned for 1909-1910 to each instance of (1) and (5) preceding annual to the state of (1) and (5) preceding annual to the state of (1) and (1) and (2) preceding annual to the state of (1) and (2) preceding annual to the state of (1) and (2) preceding annual to the state of (2) preceding annual to the state of (1) and (2) preceding annual to the state of (1) and (1) preceding annual to the state of (1) and (2) preceding a sta shall be apportioned for 1909-1910 to each inspectorate in proportion to the annual school enrolment. This gives the following totals for the formula to the annual school enrolment. school enrolment. This gives the following totals for the Strathcona Physical Training prizes for each Inspector for the past school year:

PHYSICAL TRAINING PRIZES.

Division	No.	1 Inspector	Creighton
"	66	2 ""	Mackintosh 3
"	"	3 "	Mackintosh
"	"	4 "	Morse 34
"	"	5 4	Morse
<i>**</i>	"	6 4	Roscoe
"	""	7 4	Macdonald
"	"	8 "	Macneil.
"	44	ğ u	MacKinnon.
" "	"	10 %	Armstrong
"	"	11 "	Craig. 51
"	"	12 "	Phelan
			Campbell
			\$400

-0

(3) The Inspector of Schools shall award the prizes for physical training within his own inspectorial Division. The total amount of each prize shall be paid to the teacher who shall apply one-third of it, with the amount of each prize shall be paid to and trustees, to some appendix of it, with the amount of each prize shall be paid of and teacher who shall apply one-third of it, with the approval of the Inspector and trustees, to some appropriate object to be permanently displayed in the school room as a memento. The following competition subdivisions of the Inspector and are provisionally interactions and the school room. as a memento. The following competition subdivisions of each Inspectorial Division are provisionally intimated, for the present very are provisionally intimated. for the present year.

- Three prizes in the ratio of \$7, \$5 and \$3 to be competed for in each of the four vest,
 (c) Halifax East, (d) Halifax Rural. Twelve prize the competed for a com No. 1. (c) Halifax East, (d) Halifax Rural. Twelve prizes amounting to \$59.23.
- No. 2. One prize to each of the following three subdivisions of the inspectorate, as tions having an organized Cadet Corps have tions having an organized Cadet Corps being excluded from the competition, as they have an equal prize fund for the cadets. (a) Lunenburg East of the Lahave (b) Lunenburg West of the Lahave and (c) Queens county. Three prizes amount ing to \$38.33.

	101
No. 3. One prize to each of the following four subdivisions, (a) Yarmo Argyle, (c) Barrington, and (d) Shelburne. Sections with cadet corps ex No.	
Argone prize to each of the following four subdivisions, (a) Yarmo Four prizes amounting to $$31.92$.	uch, (b) scluded.
 No. 4. One prize of \$6 to each of the following four subdivisions of the insp. be divided equally between the next best in (e) Annapolis County and (f) prizes amounting to \$34.14. 	, Light
Hants East, (b) Hants West, (c) Kings East (including Kentville, Blue Ma Mills, Alton, Pine Woods, Steam Mill, Centreville and East Halls Harbor), \$36 oc West. Sections with Cadet Corps excluded. Four and Four	rate (a) L., Lake and (d)
 No. 6. A first and second prize in (a) Antigonish county (b) Guysboro muni excluded. Five prizes amounting to \$24.84. No. 7. A first 	cipality t corps
South and second prize (in the proportion of \$6 to \$4) to (a) In	Verness
Inverness North, south of the Margaree river, as A_{first} North, north of the Margaree. Sections with cadet corps ex	nd (b) cluded.
Prize and second prize for (a) Picton North, and (b) for Picton South.	Four
of the I.C. R. and its branch, the "Short Line," (c) Graded schools not in the i C. R. and south of the i C. R. and south of the "Short Line," (b) ungraded schools not in the porated town (d) 4.6 (d) for the schools in the income	ls east le west incor-
South the distribution of the distribution of the second and third prize in (a) Cape Breton North, and (b) Cape 1	Breton ead of
Four prize each for (a) Colchester West, (b) Colchester North, and (c) Four prize to Colchester South. Sections with Cadet Corps exc	a first luded.
training in the Division of the th	physi-
to be informed for discipline, or definites threads an well and the disciplin	e and rcises.
35% for the performance of Physical Exercises.	
end sit at the desks, and carry themselves when standing still or walking s	h the hould
the Strathcona Trust, for the Province of Nova Scotia, is public information of Codet Course connected with public	ittee shed
^[14] , Resolved that the two hundred and eighty dollars for Mili for 1909–1910 be allotted as follows:-	tary

(a) One hundred dollars to be divided equally per cadet amongst ank and file of cadet corps which the rank and file of cadet corps which pass a satisfactory inspection, the cadets under the supervision of the file of the fil cadets under the supervision of the Cadet Instructor to decide how this money shall be expended money shall be expended.

(b) One hundred and eighty dollars in prizes to the best five third, as as follows:-first prize sixty 1 if Corps as follows:--first prize, sixty dollars; second, fifty dollars; Each thirty-five dollars; fourth twenty five dollars; fourth thirty-five dollars; fourth, twenty-five dollars; fifth, ten dollars, prize to be allotted as follows:-Cadet Instructor, one half; Cadet Captain, one-sixth; each of two Lightermetter and the follows addet one-sixth; each of two Lieutenants, one-twelfth; each of four Cadet sergeants, one twenty-fourth

[15.] Resolved that the percentage of marks to be allotted at in tion should be as follows a slight modified spection should be as follows, a slight modification in the scale as suggested by the Executive Council being made to react in the scale as suggested by the Executive Council being made to meet the particular conditions of Nova Scotia:--100%.

Company Drill
Discipline, Cleanliness, Care of Arms and Accoutrements $\frac{20\%}{10\%}$
Discipline, Cleanliness, Care of Arms and Accoutrements 10% Scouting

Fifty per cent to be allotted while the Cadet Corps is under the command of the Cadet Instructor and fifty per cent while under command of the Cadet Officers or non-commissioned officers.

[16.] Resolved that where a Cadet Corps is a Battalion and the contract cpanies were each trained by a separate cadet instructor, that these con-panies should be inspected on their own were the these conpanies should be inspected on their own merits and not as a battalion, that is, an instructor should be eligible for that is, an instructor should be eligible for a prize for that body of cadets which he actually instructed. That unit of an instructor a prize which he actually instructed. That unit of cadets competing for a prize shall be composed of all those cadets for which is competing for a laims a shall be composed of all those cadets for which the instructor claims bonus from the Militia Department

The manner in which the one hundred and twenty dollars will ted for Rifle Shooting will be decided at it be allotted for Rifle Shooting will be decided at the next meeting of the Local Committee.

PHYSICAL TRAINING TEXT BOOKS.

In all the schools of the province the Physical Training tary w "The Syllabus of Physical Free the Physical Training tary follow "The Syllabus of Physical Exercises for Public Elementative Schools, 1909," authorized officielly Schools, 1909," authorized officially by the British Board of the cation, London. It is recommended in the British Board of the cation, London. It is recommended by the Local Committee of the Strathcona Trust that a few of the Strathcona Trust that a few of the words of command be changed so as to correspond with military so as to correspond with military commands to be used subst quently in the cadet corps and the milita. This simplification

Page 27. For last two sentences of paragraph entitled "Standing at E_{ase} , substitute: The left foot is carried about a foot-length to the side, and the substitute: The left foot is carried about a foot-length to the side, and the weight of the body should be divided equally between both feet. The hands to be lightly clasped behind the back at the full extent of the arms are allowed to arms. After this motion has been completed the pupils are allowed to Nove their limbs, but without quitting their ground, so that on coming to attent. to attention there will be no loss of dressing.

The title of above paragraph should read "Standing Easy."

At the bottom of page 27 add the following: If it is desired to move fight for the left the command will be (UNIA) the right foot to the side instead of the left, the command will be "With Right Foot Stand—easy."

When a class is standing easy and the caution "Class" is given the ls will when a class is standing easy and the caution will about the hands behind the at once place the feet one foot-length apart, clasp the hands behind the at once place the feet and remain still until a command is behind the back, look to the front and remain still until a command is siven, if the back, look to the front and remain still be brought in to the right Riven. If "Atten-tion" is given, the left foot will be brought in to the right and the back, look to the front and remain sum that the right and the back, look to the front and remain sum the right. The whole body assuming the posiand the hands brought to the sides. The whole body assuming the position as previously described.

^{Page 50.} The command "Quick—march" will be used not "For-march."

The paragraph "Turning about on the march" will read as follows:-On the paragraph "Turning about on the march with to turn about to the command "About-turn," pupils will be taught to turn about the right the number of the furn about the the reading about the pupils will be taught to taun about to the right, which must be done by the pupils on their own ground, in three paces, without losing the time. Having completed the turn about, the in the new dimension of the more difference of the new dimension of the new dimension. The more difference of the new dimension will then the new direction. The word "turn" should be given when the left be new direction. The word "turn" should be given when the left be new direction. The word "turn" should be given when the left be nade with the first pace forward in the new direction will then should be ground, the first pace forward in the new direction will then the new direction will then the space may be be made with the left foot. With young children this pace may be lightly marked.

^b read "With change of step, quick—march." Page 51. The command "With change of step, forward—march"

march." The command "Forward—march" after "Heels—raise" to read "quick-

With knee raising, quick mark-time." $P_{age 52}$. The command "With knee raising, mark-time" to read,

With knee raising, forward-march" to read "With knee raising Wick march."

march.;

Page 53. The command "Forward—run" to read "Double—

ί.

Page 54. The command "Change-march" to read "Quick--march"

"With knee raising, forward—run" to read "With knee raising" double-march."

"Change-run" to read "Double-march".

"Running on the spot, left (right) foot-begin" is read "Double c-time." All movements to begin with the sport of the mark-time." All movements to begin with the left foot unless other wise directed.

Page 59. In paragraph 2 read that the second line should be for^{pud} p paces" behind the first instead of "true of the second line should be for the second line second line should be for the second line s "two paces" behind the first instead of "two feet" behind.

Paragraph 4 should read as follows:—To straighten the lines, the trene trene of the first line with the exception of the straighten the lines, the strene trene the strene trene the strene trene trene the strene trene children, of the first line with the exception of the pupil on the extreme right will turn their heads to the right and and right will turn their heads to the right and move by short steps until they are in line with the pupil at the right and move by short steps until they are in line with the pupil at the right and move by short steps until with other (about one hand's breadth at the albert) other (about one hand's breadth at the elbow). The pupils of the second line will get two paces away from and direct. line will get two paces away from and directly behind the pupil in front. When this has been done the beads are an

The command "Eyes right and lines-straight" to read "Right"

Add after the command "Eyes—front" the following: When child ren have reached the age of ten years they should be taught to turn head to the front as soon as he or she is in line. "Eyes" head to the front as soon as he or she is in line. The command "Eyes" front" will then become unnecessary

Page 60. The command "Mark--time" to read "Quick mark"." time."

Page 61. The command "Right (or left) about-turn" to read out-turn." The turn to be made to the state "About-turn." The turn to be made to the right about.

The command "Mark-time" to read "Quick mark-time."

The command "One step forward—march" to read "One pace of l-march". ward-march".

"One step backward—march" to read "One pace step back" march."

"One step to the left-march" to read "One pace to the left". march."

Pages 62 and 63. In the commands where the word "step" is used titute the word "pace" and for "boots substitute the word "pace" and for "backward" the words "step" ¹⁵ back.

Under the title "Dismissing a class" substitute "On the word pause, the class will first turn to the word the state. miss, the class will first turn to the right, then after a momentary $p^{au^{g}}$ disperse quietly."

- Page 87. For command "Slow march left (right) foot-begin" read "Slow-march."
- The commands altered above occur throughout the tables and should there be amended accordingly.

THE MILITARY SUMMER SCHOOL AT HALIFAX.

This course is provided for teachers who desire to obtain the Grade A (Military) Certificate to qualify themselves for the or-ganized: (Military) Certificate Corps. They will be admitted Sanization and instruction of Cadet Corps. They will be admitted w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the recommendation of the Superintendent of Education w_{ho} m the superintendent who must vouch for their professional standing; and as on account of the standing the standing $t_{\rm the}$ of the expense the number of candidates is limited, those standing highest in the best prospect of being able to highest in the profession with the best prospect of being able to organize and instruct a Cadet Corps, will have the preference.

APPLICATIONS

for admission should be made to the Superintendent of Education Not later to the Superintendent of Education admission should be made to the Superinternetite of the state of license beld, or better still, (a) the school in which he is employed (b)his class his class and length of service, (c) the railway station from which he will for free transportation, and (d) his be will require a requisition for free transportation, and (d) his address address which should be sure to find him promptly at any time $t_{000 + 1}$ which should be sure to find him promptly at any time from the middle of June to the date on which he must start for the whool which opens on the 12th July.

Those authorized to take the course will be promptly in-Those authorized to take the course will be prompty in formed by the middle of Jun, and communications from the Military school authorities will follow later to the address given.

OFFICIAL INFORMATION.

The following official information has been obtained from ton Barcost respecting this C urse which is giv n at the Wellington Barrack., Halifax, Nova Scotia.

six weeks. (7) The Course will begin on the 12th of July and will last

and (b) It consists of Scouting, Musk try, Military Drill, Tactics Cadet Corps instructor, or for what is sometimes called "a mili-tary 'A' prime instructor. The priming as now authorized for the sobe certificate." the schools will be taught.

thorized to take the course. This when tendered to a ticket agent Brown ticket. mill procure a first class railway ticket.

(d) The actual expenses, such as cab fare, meals etc., in curred in proceeding to and returning from Halifax will be refur ded by the Government to those who obtain a certificate.

(e) So far as accomodation will allow, teachers will live in officers' Quarters at Wall the Officers' Quarters at Wellington Barracks. The remainder will have to live in the City. Those who live in barracks will receive about \$1.25 a day. The cost of living in the officers' Mes and other expenses will practically use up this amount Those who live in the City will receive about \$2.00 per day and will them selves arrange for their board and lodging.

The rooms in the barrocks are furnished with bed, bed ding electric light or lamps, bureau, commode, chamber set, table and chains Any other furnishing (f) and chairs. Any other furnishings must be supplied by those occupying them occupying them.

(g) Those who do not h w belong to a military unit will equired to wear uniforms or for O be required to wear uniforms as for Corps of School Cadet 1st struction, but without control 1 struction, but without rank badges, (see paragraph (1).

(h) A sword and belt should be provided.

(i) Teachers who pass this course and become officers in a ment of the Militia or officers and become offi Regiment of the Militia, or officer of he Corps of School Cadet Instructors, and train a cadet correct the Corps of School Cadet is connected with a public school will receive a yearly bonus as follows:-follows:-

"For the training of a cadet corps during the school year ect to the certificate of a military to the school year subject to the ceruficate of a military inspecting officer that the cadet corps has been well instructed in the cadet corps has been well instructed in the course of military training laid down for them allow ing laid down for them, allowance will be paid to Lieutenants, calculated as follows --calculated as follows,---

When the corps has less than 20 cadets, no allowance will be made.

From 20 to a maximum of 50 cadets, \$1 per cadet.

For each additional cadet up to 100, 75 cents per cadet.

For each cadet in excess of 100 up to 125, 50 cents per cadet

With no additional allowance for any cadet in excess of 126 in any one corps under in any one corps under one Lieutenant instructor. G. O 58, 1909

(j) Application to take the course at Wellington Barracks, Hahfax, should be made as early as possible to the Superintendent of Education for Nova Scotia. The railway station from which transport will be required should be mentioned.

(k) Those authorized to undergo the course are to report to the Adjutant, the Royal Canadian Regiment, at Wellington Barracks, Halifax, N. S., by 10 o'clock A. M., the 12th of July.

(1) A uniform is authorized for Corps of School Cadet Instructors as follows: Jacket Reefer or double-breasted pattern of blue black cloth or serge of ordinary civilian sackcoat length, lastened in front by two rows of four buttons each, of Canadian Militia pattern. Shoulder straps, blue crash with gilt metal rank badges. Trousers—Of serge to match colour of jacket, no stripe at seams. Cap—Field service, infantry, blue. Uniform and equipment will be provided by the officers of the corps as is done by other officers."

(m) The Minister in Militia Council has decided that only those School Teachers who have qualified by attendance at a course of military instruction, and who are actually instructing bona fide organized and gazetted Cadet Corps, will be appointed to the Corps of School Cadet Instructors, with the rank of Lieutenant a the Militia. The mere fact of qualifying as a Cadet Instructori Will not be considered sufficient for according militia rank.

SULE-TARGET GUN MACHINES.

- \mathfrak{h}_{0n} (2) The space required in which to set up a sub-target rifle machine is 61½ feet \mathfrak{h}_{0n} the centre of the base of the target, plus 5 or 10 feet for the recruits and instructor.
- $\mathbf{h}_{achines\ might\ be\ usefully\ employed\ in\ smaller\ space\ by,}$
 - (a) placing the target at the prescribed distance outside the building and aiming through a window.
 - (b) by placing the target beside or behind the machine and aiming at the reflection of the target in a mirror placed on the wall at half the prescribed distance.
- A. $G_{\cdot, M, P}^{(3)}$ Forms for application for these machines may be contained from the D. A.

is not able to make the repairs, a report to this effect should be made to the Senior Ordance Officer, Halifax, N. S., so that an expert may be sent to place the machine working order

in.

in (1) It is the desire of the Militia Department to place sub-target gun machines $i_{n_{structor}}$ educational institutions which may have a teacher qualified as a military instructor.

CERTIFICATES, 1909.

Certificates awarded by the Department of Militia and Defence to teachers, and sent to the Education Office for distribution, since the publication of the last October JOURNAL OF EDUCATION.

GRADE A.

No. 17483 L. A. d'Entremont, West Pubnico, N. S.

GRADE B.

1292	\mathbf{Miss}	Evelyn Finn	
1293	" "	Teresa Nahrings	
1294	"	Ellen Wood	1
1295	"	Eva Mary Murray	
1296	" "	Helen Hagan	Mount St. Vincent,
1297	44	Katherine McManus	Halifax.
1298	"	Flora McDonell	ITanta
1299	" "	Sadie Fitzgerald	
1300	" "	Eleanor Sullivan	
1301	"	Margaret Kelly	J

Some of the Certificates announced in the last October JOURNAL have not yet been distributed, owing to the absence of the teacher's present address. The certificate would be lost in many cases, if sent out to the address given at the time of raining. Hence they are retained until asked for.

COUNTY ACADEMY ENTRANCE EXAMINATION.

Regulations 61 of the C. P. I., (page 81), Manual of School (Law) is repealed and the following substituted in its place:

The regular mode of admission into county academies shall be by an entrance examination in the last week of the school term in lune June, mainly on the subjects of Grade VIII. 'There shall be Six subjects of examination, as follows, the questions being sent $Out f_{1}$ for (1) Reading to be tested by the out from the education office: --(1) Reading--to be tested by the examination, will reading. (Second sources for 1910). examiners on the Grade VIII reading, (Second series for 1910). $M_{usic:}$ Candidates known from individual or class exercises, or from to be able to sing, especially when they from reliable certificates, to be able to sing, especially when they have have a practical acquaintance with any system of musical notation, m_{av} a practical acquaintance with any system of musical notation, May receive an extra mark as a bonus under this head at the option of the section of the examiner, providing the *Reading* is passable. See also Reg. 991 (a) Decrement and Bookkeeping. (4) Geog-99] (2) Language. (3) Drawing and Bookkeeping. (4) Geog-raphy (2) Language. (3) Drawing And Rookkeeping. (4) Geography ⁽²⁾ Language. (3) Drawing and Loonard Coeania, in detail, with ⁽²⁾ Mither ⁽²⁾ History-Geography of Asia, Africa, Oceania, in detail, History of Canada (Hay or Calkin). with a review of Canada. *History of Canada* (Hay or Calkin). (5) Canada. *History of Canada* (Hay or Calkin). (5) General Knowledge: (a) The five families, Crowfoot, Rose, Health Health, Violet and Lily; with the important native trees and the common violet and Lily; with the important native trees and the common weeds injurious to agriculture. (b) The common rocks and min weeds injurious to agriculture. and minerals of Nova Scotia. (c) A few of the common birds. (d) House and Nova Scotia. (c) A few of the common birds. (d) <u>Minerals</u> of Nova Scotia. (c) A term of Musico (d) <u>Health Reader</u>, No. 2. (Mechanic or Domestic or Rural Science, Musico Mathematics. or Music as in Regulation 99). 6. Mathematics.

n	TABLE, JUNE, 1910.		
DATE.	TIME.		SUBJECT.
h June.	9 to 11 a. m.	2.	English Language.
Wednesday 29th June.	2 to 3.30 p. m.	3.	Drawing and Book-keeping.
	3.30 to 5 p. m.	4.	Geography and History.
Thursday 30th June.	9 to 11 a. m.	6.	Mathematics.
	2 to 3.30	5.	General Knowledge.

COUNTY ACADEMY ENTRANCE EXAMINATION, TIME TABLE, JUNE, 1910.

¹. READING to be examined at the end of each session, or ^{henever} found most convenient by the Principal.

PUBLIC SCHOOL PROGRAM.

FROM THE REPORT OF THE COMMITTEE ON COLLEGE ENTRANCE REQUIREMENTS, NATIONAL EDUCATION ASSOCIATION, U. S. A. 1899.

Three distinct terms seem to be needed:

(1) Program of studies, which includes all the studies offered in a given school;

(2) Curriculum, which means the group of studies schematically arranged for any pupil or set of pupils;

(3) Course of study, which means the quantity, quality and method of the work in any given subject of instruction.

Thus the *program* of studies includes the *curriculum*, and may indeed furnish the material for the construction of an indefinite number of curriculums. The *course of study* is the unit, or element, from which both the program and the curriculum are constructed.

154. HIGH SCHOOL PROGRAM FOR 1910-11.

(1) Description by drawing as well as by writing may be required in any question, and should always be used when brevity or clearness may be gained.

(2) The "High School Pass'' in all grades shall be an $ave{for}^{rage}$ of 50% with no mark below 30% on a group of six subjects for Grades IX, X and XI; and a group of nine papers for Grade XI.

(3) The "Teachers' Pass' shall be an average of 60% on $^{a}_{of}$ group of six *subjects* in Grades IX, X. and XI, and on a group nine papers for Grade XII with no mark below 40%. 50% how, ever must be made on *English* in each grade for a "Teachers' Pass."

(4) Candidates may write on more than the six subjects, or nine papers indicated in (2) and (3). In such cases the "pass" shall be determined by the group including the highest six subjects or the highest nine papers, as the case may be, providing English is one of the group.

(5) Two hours shall be given at examination for each $p^{ap^{e^{f}}}$ which shall contain eight questions.

(6) When a candidate wishes to raise a "High School Pass" least 60 on each subject not previously up to this standard. That is, a "Teachers' Pass," by partial examinations will require at least sixty per cent. on every subject. This can be necessary only when a candidate is not writing for a higher grade, and thereregular examination.

(7) The "High School Pass'' admits to the corresponding class in the Provincial Normal College, whose faculty can raise it to the "Teachers' Pass'' on evidence of improved scholarship, without which the Normal diploma cannot be awarded.

(8) Candidates for Grade XII certificates (High School but who fail on account of being too low in Foreign Languages subjects, shall have the High School average pass on the other sequent examination by making at least 50% on each of the nine papers not previously up to this standard.

(9) Candidates for Grade XII certificates (Teachers' Pass) who fail on account of being too low in Foreign languages, but who have made a Teachers' average pass on the other subjects, shall have the privilege of completing the pass at a subsequent examination by making at least 60% on each of the nine papers hot previously up to this standard.

(10) From one to three points may be added by the examiner for specially good writing. Bad writers have no right to be admitted to an examination except on certificate of physical defects, and if examined, the papers are subject to a deduction of marks. One point shall be deducted for every word misspelled.

 $i_{ncompletely}$ The High school subjects to be taught in a rural, or school pletely graded high school, shall be determined by the the looard in agreement with the principal, with an appeal to nent or dissatisfaction.

 $\mathbf{h}_{\mathbf{u}}$ (12) Any subject deemed to be of importance in any comboard, may be put on the program of a school by the school with the consent of the Education Department.

 χ_{II} (13) No school is advised to undertake the work of Grade teachers than a staff of four regularly employed high school

(14) A candidate who has taken Latin in Grade IX, may take the IX French paper instead of the regular one in Grade X, and the X French paper in Grade XI, provided a 60 or 50 per cent. mark is made respectively for a Teacher's or a High School Pass in each case.

GRADE IX.

(English and any other five subjects imperative).

1, ENGLISH:-

- (a) LITERATURE—George Eliot's Silas Marner (edited by Herrick, Longmans, New York, \$0.25), and Scott's Lay of the Last Minstrel (Edited by Saul, Morang, Toronto, \$0.15), with critical study, word analysis, prosody and recitations. English Composition as in Sykes, to page 101, or an equivalent in the hands of the teacher, with essays, abstracts and general correspondence so as to develop the power of fluent and correct expression in writing.
- (b) As in GRAMMAR—(except notes and appendix) with easy exercises in parsing and analysis.

2. LATIN:—As in Collar and Daniell's First Latin Book, to end of chapter L., or any equivalent grammar, with easy translation and composition exercises. [The Roman (phonetic) pronunciation of Latin to be used in all grades.]

3. FRENCH:—Bertenshaw's Grammar, Part I., and First Reader to page 56.

4. GEOGRAPHY:—Physical and Astronomical, General Geography of continents and British Empire in detail as in Calkin.

5. ARITHMETIC:—As in the Academic to page 63.

6. ALGEBRA:—As in Hall and Knight's Elementary to end of Chapter XVI.

7. DRAWING:-

- (a) As in Morton's Mechanical Drawing, with the construction of the figures in Euclid, Book I.
- (b) High School Drawing Course, No. I, with model and object drawing and Manual Training No. 2.

8. SCIENCE: Botany-(5 Q.). Spotton (except Chap, XIX) and the study of the Wild Plants of the Phenological Observations, with Pteris, Aspidium, Asplenium, Onoclea, Osmunda.

Physics—(3 Q.). As in Primer or equivalent (winter months). Text to be used only as an aid to the study of the subject.

GRADE X.

(English and any other *five* subjects imperative.)

1. ENGLISH:---

(a) Same subjects as in previous grade, but more advanced scholarship required. Composition as in Sykes, or an equivalent in the hands of the teacher, with special atten-' tion to the development of readiness and accuracy in written narrative, description, exposition and general correspondence. For outside reading and theme writing: Dickens' Tale of Two Cities (edited by Buehler, MacMillans, Toronto, \$0.25).

(b) As in GRAMMAR:—Text book complete.

2. LATIN:—As in Collar and Daniell's First Latin Book complete, and "Cæsar's Invasion of Britain," by Welch and Duffield.

end of XLV.

Or FRENCH:—Bertenshaw's Grammar, Part II, and Souvestre's "Le Chevrier de Lorraine."

Or GERMAN:—As in Joynes Meissner's Grammar, first 25 exercises, with Buchheim's Modern German Reader, Part I., first division only

or Calkin's; and oral lessons by teacher based on Bourinot's "How Canada is Governed'' (three questions).

5. CHEMISTRY:-Inorganic, as in Waddell or Williams.

6. ARITHMETIC:-Text book complete.

Chapter XXVII.

8. GEOMETRY:-Hall & Stevens' Euclid, Book I, with all exercises to the end of Preposition 48.

GRADE XI.

(English and any other *five* subjects imperative.)

1. ENGLISH:--Shakespeare's Julius Caesar (edited by Odell, Longmans, \$0.25), Macaulay's Addison (edited by French, Mac-Millans, Toronto, \$0.25). History of English literature as in Meiklejohn. For outside reading and theme writing: Kingsley's Hereward the Wake (unabridged, "Everyman's Library").

2. LATIN: --Grammar and easy composition partly based on prose author read.

 (a) Casar's De Bell. Gall., Book I, (b) Vergil's Æneid, Book I, with grammatical and critical questions, (c) First Exercise in Latin Prose Composition by E. A. Wells (Geo. Bell & Sons London).

3. GREEK:—Grammar and easy composition based partly on author read and White's First Greek Book completed. Xenophon's Anabasis, Book I, with grammatical and critical questions.

or FRENCH:—Berthon's Specimens of Modern French Prose omitting IV, VI and X, and A Travers le Canada (Quatrième Livre de Lecture—Nelson & Son, or Mackinlay).

Fraser and Squair's Grammar, sections 227 to 344, with the corresponding exercises, pages 343 to 371; or a thorough review of Bertenshaw's Grammar, parts I and II, with exercises complete.

or GERMAN:—As in Joynes-Meissner to lesson 44, with Buchheim's Modern German Reader, Part I, complete. Review of Grade X German.

4. HISTORY:-General History, as in Swinton.

5. PHYSICS:—The Chapters on either (a) Light and Sound, or (b) Electricity, to be taken with the rest of the text, alternative questions to be given on (a) and (b).

6. PRACTICAL MATHEMATICS:—To be known as Trigonor metry and Mensuration. As in Murray's Essentials of Trigonor metry and Mensuration, excepting Chapter XI.

7. ALGEBRA: As in Hall & Knight's Elementary Algebra to end of Chapter XL, except Chapter XXIX to end of XXIXd.

8. GEOMETRY:—Hall & Stevens' Euclid, Books II, III and IV, with all included exercises and the "theorems and examples" italicized following each Book from I to IV.

GRADE XII.

(Leaving Examination).

[Nine papers out of fifteen on the following twelve subjects constitute a full course. The following subjects are imperative:— English, two foreign languages, one mathematical and one scientific subject; except that those who take both Latin and Greek may omit the scientific subject, and those who make an average of 70 (Teacher's pass) or 60 (H. S. pass)on English, with 5 more on each of the marks and averages determining the respective regular passes, may omit foreign languages].

1. ENGLISH (Two Papers): (a) Lounsbury's English Language, OR Bradley's The Making of English. History of English Literature as in Gwynn's Masters of English Literature (Macmillan Company, Toronto).

- (b) Shakespeare's As You Like It (Edited by Phelps, Longmans, \$0.25); Palgrave's Golden Treasury, Book II (complete, edited by Bates, Longmans \$0.25), and Emerson's Essays edited by Holmes, MacMillan, \$0.25). (selected, edited by Holmes, MacMillan, \$0.25). (selected, edited by Holmes, for outside reading and theme With the following books for outside reading and theme Writing:—Longer Narrative Poems (edited by Jeffries, Writing:—Longer Narrative Poems (edited by Jeffries, Morang, \$0.15), Holmes' Autocrat of the Breakfast Table (Everyman's Library), and Thackeray's English Humorists (Everyman's Library), and Thackeray's Could by Bennett, Longmans, paper 0/3, cloth 0/6).
- L_{ATIN}. (Two Papers): (a) Bennett's Latin Grammar or equivalent; Bradley's Arnold's Latin Prose Composition to end of exercise XXII; Sight Translation.
- (b) Cæsar's De Bell, Gall II, III and IV; Virgil's Æneid, Books II and III.
- 3. GREEK (Two Papers): (a) A thorough review of White's "First Greek Book,' Sight Translation; Easy Composition Partly based on the prose author read.
- (b) Xenophon's Anabasis, Books II, III and IV.

E.

4. FRENCH:—Sandeau's Sacs et Parchemins (edited by Pe-Braunholtz, MacMillans Toronto, \$0.90); Corneille's Polyeucte (Edited de M. Poirier (edited by Preston, Blackie & Son, -/8); with questions upon grammar and composition as in Fraser and Squair's Frammar, sections 345 to 461, with the Composition exercises from Page 371 to page 394. 5. GERMAN:—Buchheim's Modern German Reader, Part II to end of selection 10 second division; and Schiller's Wilhelm Tell, Acts I, II, III, and IV (edited by Carruth, MacMillans, \$0.60) Grammar and Composition as in Joynes-Meissner.

6. ALGEBRA:—As in Hall and Knight's Senior Matriculation Algebra. (MacMillan, \$0.90.)

[A reprint of the first 19 chapters of the old and larger text.]

7. GEOMETRY:—As in Hall and Stevens' "Euclid I to VI and XI", omiting demonstrations of V, unsolved exercises in "Theorems and examples on Books VI", and the more cumbrous half of the subsequent three collections of exercises.

8. TRIGONOMETRY:—(a) Plane as in Murray's Plane and Spherical. (b) Spherical as in Murray's Plane and Spherical, Chapters I, II, III, and IV.

9. PHYSICS: -- As in Goodspeed's Gage's Principles of Physics.

10. BOTANY:-As in Bergen and Davis' Principles of Botany.

11. CHEMISTRY:—As in Smith's "General Chemistry for Colleges".

12. HISTORY:-Myer's Ancient History (revised edition), Parts I, II and III.

(SCHEDULE B.)

PRESCRIBED FORM FOR PROVINCIAL HIGH SCHOOL EXAMINATION.

AT.....STATION.

To......Inspector of Schools:

I,...., do hereby certify that the candidates whose names are given below from No. I to No......inclusive, will, to the best of my knowledge, have completed, before the date of next examination, the Prescribed Course of Study up to and including the Grade for which each applies; and furthermore, according to my judgment, both the reading and writing* of each candidate are up to the standard desirable to be maintained for promotion in the High Schools of the Province.

I also forward herewith on behalf of these candidates..... dollars, being the amount of fees required under sub-section (b) of Regulation 85, "Provincial Examination of High School Stu-dents," as specified in the list below.

Candidates intending to take the M. P. Q. Examination (fee \$2.00, payable to the Deputy Examiner at Examination) are in-dicated by the letters M. P. Q., in the column headed "remarks"

Signed

PrincipalCo.

SYLLABUS

OF

THE ACADEMIC HEADMASTER

OR UNIVERSITY POST-GRADUATE EXAMINATION.

110. (b). The testing provincial post-graduate examination shall be upon two series of papers—the *higher* of University "grad-uation distinction" standard, the *lower* of University "grad-uation pass" standard. The post-graduate examination "pass" shall require :---

- 1. A provincial pass (50%) in at least one subject of the higher standard.
- 2. A provincial pass in five other subjects of the Lower standard]
- ^{3.} Certificates of the following University courses taken and passed by candidates shall be imperative and must be
- tion "If a candidate has a physical defect preventing good reading or writing, applica-description of the case for the consideration of the Education Department.
 - 12

taken later than the first year of the University course, namely:—Logic and Psychology, and any two of the following: Ethics, Political Economy, Sociological Science, Modern Philosophy, History.

4. SYLLABUS OF THE HIGHER STANDARD.

[Two papers, three hours long, on each subject.]

ENGLISH. I.

(A) History of the English Language as in Lounsbury's "English Language'' or "Emerson's History of the English Language.''

(B) History of Nineteenth Century English Literature, ^{as} in Herford's "The Age of Wordsworth' (1798-1832, and Walker's "The Age of Tennyson' (1830-1870).

(C) A thorough knowledge of the following works:-Dowden's "Selections from Wordsworth," Browning's Shorter Poems by Baker, Tennyson's Shorter Poems by Nutter, Palgrave's Golden Treasury of Songs and Lyrics (Book IV), Pancoast's "Standard English Prose" (the selections from Lamb to Stevenson).

(D) Ten Brink's History of Early English Literature (Vol. 1).

(E) Bright's Anglo-Saxon Reader (the introduction and Parts I, II, and IV).

(F) Morris' Specimens of Early English Part I (Extracts ix to xviii inclusive).

[N. B. All candidates are expected to have a thorough knowledge of the principles of Composition. To ensure the possession of this knowledge and of the ability to make practical use of it, the writing of an Essay on some one of several given subjects will form an important part of this examination.]

II. AND III.—FOREIGN LANGUAGES.

Translation at sight, from any ordinary authors, with Grammar (including Prosody), Composition, and a fair knowledge of the national, social, institutional and literary history of the people whose language is dealt with, in any two of the following languages: Latin, Greek, French, German.

Extracts will be set from at least three prose and three poetical authors in each language. In French and German the can-didates' ability to use the spoken language may be tested by one or more questions requiring viva voce examination.]

IV.-MATHEMATICS.

(A) Algebra, Geometry and Trigonometry as in Grade XII.

(B) Plane and Solid Analytical Geometry, including the general equation of the second degree. Differential and Integral Calculus, as in Murray's Infinitesimal Calculus.

V.-SCIENCES.

Any one of the following:

PHYSICS.

(A) A knowledge of General Physics, as in "A Textbook of Phyises' by Watson (unstarred sections), or any equivalent.

(B) The presentation of note-books describing the laboratory experimental work of the candidate, duly certified by the Instructor the university of the candidate, duly certified by the Instructor the work to consist of at least 50 experiments of recognized Uni-versity grade (e. g. as in Ames and Bliss' "Manual of Experi-nents in Physics'). In cases where the candidate cannot present notebooks notebooks satisfactory to the examiner, the test may be made by a practical laboratory examination.

(C) Elementary Mathematical Physics. A knowledge of the results obtained by the application of elementary mathematics to physication of elementary mathematics a course to physical problems; such as might be obtained during a course of least of lectures of two or three hours per week running through two years. The grade of work such as is given in Preston's "Theory of Heat," Preston's "Theory of Light," and J. J. Thomson's "Elements of Electricity and Magnetism," or their equivalents.

CHEMISTRY.

Chemistry,' or an equivalent, with laboratory work in General Bases which should include the preparation of some typical sases, acids, and salts, and at least five or six quantitative ex-periments in illustration of the fundamental laws of Chemistry. The laboratory work may be partially tested by requiring the mental work mental work.

(B) Organic Chemistry as in Remsen's "Compounds of Carbon' or an equivalent, to be accompanied by laboratory work, which should include the preparation of at least 20 typical carbon compounds. The laboratory work may be tested partly by questions in the papers on Chemistry, and partly by requiring the candidate to produce specimens of his preparations properly certified to be his own work.

(C) Analytical and Physical Chemistry. including:-

- 1 Qualitative Analysis of the common acids, and bases. Candidates may be tested by a practical laboratory examination and by questions in the Chemistry papers
- 2. Quantitative Analysis. The estimation of the following elements in their common compounds:—Chlorine Sulphur, Phosphorus, Carbon (in carbonates), Silicon, Silver, Copper, Calcium, Magnesium, Lead, Iron; Carbon and Hvdrogen in organic compounds. Candidates may be tested by a practical exercise in the laboratory and by question in the Chemistry papers.
- 3. Physical Chemistry, as in Talbot and Blanchard's "Electrolytic Dissociation Theory' and "Walker's Introduction to Physical Chemistry."

(D) Outlines of History of Chemistry, as in Tilden's "Short History of Scientific Chemistry," Thorpe's "Essays in Historical Chemistry" and "Justus von Liebig" and "John Dalton" in the Century Science Series.

Biology.

(A) Botany as in Principles of Botany and Laboratory and Field Manual by Bergen and Davis. A practical knowledge of the system of classification and the use of manuals, as Gray's. An acquaintance with (a) the common Spermatophytes and Pteridophytes of Nova Scotia, and (b) type species of native Byrophytes and Thallophytes representing the more common classes or orders. The exhibition of, and examination upon, a collection of one hundred species correctly determined and well mounted by the candidate under (a), and of another hundred (counting microscopic slides) also mounted and determined under (b).

(B) Zoölogy as in Zoölogy Descriptive and Practical by Colton, and Hand-Book of Instructions for Collectors issued by the British Museum (Natural History). A practical knowledge of the system of classification and the use of manuals, as Jordan's.

An acquaintance with (a) the more common vertebrate fauna of Nova Scotia, and (b) typical species of the more common classes or orders of the native invertebrates. The exhibition of at least fity specimens under (a), and at least fifty microscopic or macros-copic specimens under (b), all correctly determined and neatly mounted or prepared.

(C) Outline History of Biology, as in "Science of Life" by Thompson, or an equivalent, with latest theories. Bacteria in R_{el} Relation to Country Life, by Lipman.

[The candidate must show his ability to dissect macroscopically and microscopically, to make microscopic sections, and have and microscopically, to make incroscopic sections, and nave an elementary knowledge of microscopic technique. A mono-graph upon, or a special study of, any biological group or species, may be accepted according to its merits as supplementing defects in collection there original work showing a knowledge of in collections, etc. Any original work showing a knowledge of the subject will enhance the candidate's standing.]

GEOLOGY AND MINERALOGY.

As in Introduction to Geology by Scott, Physiography by Salis-bury, and Mineralogy, as in Minerals and How they Occur by Miller, A laboratory knowledge of the rocks and minerals of the province, and field knowledge of the results of forces changing the Surface of the earth.

SYLLABUS OF THE LOWER STANDARD. 5.

One paper three hours long on each subject, supplemented by viva voce examination and practical demonstration at the option of the examiner.]

I.- ENGLISH.

As in (A), (B) and (C) of the Higher Standard.

of the principles of Composition. To ensure the possession of this knowledge, and of the ability to make practical use of it, the writing a factor of the ability to make practical use of it, the Writing of an Essay on some one of several given subjects will form an important part of the examination.]

II. AND III.-FOREIGN LANGUAGES.

 F_{rench} and F_{rench} a may be tested by one or more questions requiring viva voce examination.

IV.—MATHEMATICS.

As in (A) of the higher standard.

V. AND VI.-SCIENCES.

Any two of the following:

Physics: As in (A) of the higher standard. *Chemistry:* As in (A) of the higher standard: omitting the sections of the text-book in small print.

- Biology: As in "First Course in Biology' by Bailey and Coleman, "Practical Botany for Beginners' by Bower, "Animal Life' by Jordan and Kellog, and a knowledge of the use of manuals in the classification of the more common species of the Nova Scotia Flora and Fauna as in Gray and Jordan respectively or equivalents.
- [For the foreign species worked out in the Practical Botany text the nearest native species obtainable shall be studied in the same way, practically. The same principle holds in zoological practical studies.]
- Geology: As in the first xxiv chapters of Scott's "Introduction to Geology," and Miller's "Minerals and How They Occur."

6.—Non-Graduate Candidates.

Candidates who have not graduated from a recognized University, if they have spent at least four Academic years in study after attaining the Grade XI standard of scholarship, and have obtained a pass on Grade XII and a pass on the testing provincial post graduate examination, may be admitted to a special examination on the remaining subjects of a full University course, in order to obtain the standing of a graduate of a recognized University under those regulations. But the cost, syllabus and time of any such examination have not at present been determined.

7.—GENERAL RULES OF EXAMINATION.

(a) Options will be given when questions deal with minute details in subjects of wide range, in the sciences especially, with the object of equalizing the effects of different instructors, and texts are mentioned merely to indicate the comprehensiveness and intensiveness of the study required. (b) An average of fifty per cent. on all subjects, with none below forty on the lower series, is required for a pass, provided the candidate also passes in the practical and viva voce examination.

(c) If a candidate fails in not more than two subjects, he may take a supplementary on the subjects failed in, but will make a pass only when no subject is below fifty per cent.

(d) The examination will be held in Truro during Provincial Examination week and the week following, in proximity to the Provincial Normal and Agricultural Colleges, for the convenience of laboratory demonstration and viva voce examination.

(e) A preliminary notice stating the intention to make application, and specifying the details to be proven and subjects to be taken, should be sent in to the Superintendent not later than the first day of March preceding.

Application for examination should be made to the Superintendent of Education before the first day of May, stating the higher and lower subjects to be written upon, and *furnishing proof* (1) of having matriculated into a University on a standard practically as high as the pass of Grade XI of the Provincial High School, (2) of having taken thereafter a full course of four academic years, three of which must have been the second, third and fourth years of the University course, and (3) of graduation as recognized in Regulation 110 (a) 2, preceding.

(f) There shall be no fee for examination.

PUBLISHERS OF TEXTS MENTIONED.

Emerson's "History of the English Language'' (Macmillan). Herford's "The Age of Wordsworth'' (Bell & Sons). Walker's "The Age of Tennyson'' (Bell & Sons). Dowden's "Selections from Wordsworth'' (Ginn & Co.).
Dowden's "The Age of Tennyson'
Bal, "Wden's "Selections from Wordsworth (Ginn & Co.).
Baker's "Selections from Wordsworth (Ginn & Co.). Nutter's Browning's Shorter Poems
Nutter's Browning's Shorter Poems
Pagrave's "Golden Treasury
Palgrave's "Golden Treasury
Mont's Anglo Saxon Reader (Holt & Co.).
Bright's History of English Literature
Murray's Infinitesimal Calculus
Preston's Text Book of Physics
(Macmillan).
J. Thomson's "Flements of the Mathemati-
J. J. Theory of Light'
A neory of checenercy and mugnetism (Cant. 0. 11655).

 Smith's "General Chemistry"
There's "Essays in Historical Chemistry'' (Longmans). Shenstone's "Justus von Liebig'' in Century
Science Series
Science Series
Manual(Gian & Co.).Gray's Manual of Botany (Seventh Edition)(Am. Book Co.).Jordan's "Manual of Vertebrates''(McClurg & Co.)."Bacteria in Relation to Country Life" by Lipman (Macmillan).Colton's "Zoology Descriptive and Practical''(D. C. Heath Co.).Bailey and Coleman's Biology(Macmillan).Thompson's "Science of Life''(Blackie & Son).Jordan & Kellog's "Animal Life''(D. Appleton).Bower's "Practical Botany for Beginners''(Macmillan).Hand Book of Instructions for Collectors(Brit. Museum).Scott's "Introduction to Geology''(Macmillan).Salisbury's "Physiography''(H. Holt & Co.).Miller's "Minerals and How They Occur''(Toronto).

TIME TABLE OF THE

ACADEMIC HEADMASTER EXAMINATION, 1910, AT THE NORMAL COLLEGE, TRURO.

July 4	9 to 12 A. M.	Greek (higher, A) and Greek (lower).
	2 10 5 P. M.	German (higher, A) and German (lower).
July 5	9 to 12 A. M.	Latin (higher, A) and Latin (lower).
	2 to 5 P. M.	French (higher, A) and French (lower).
July 6	9 to 12 m. M.	English (higher, A) and English (lower).
•	2 to 5 P. M.	Mathematics (higher, A) and Mathematics
		(lower)
July 7	9 to 12 A. M.	Science (higher A) and Dission (lower).
July 8	9 to 12 A. M. J	English(higher, B) and Latin (higher, B). Creak (higher, B)and Mathematics(higher, B).
	2 + 10 + 1 = 1 + 11	$(\mathbf{y}) (\mathbf{e} \mathbf{e} \mathbf{v}) (\mathbf{f}) (\mathbf{f}) (\mathbf{e} \mathbf{e} \mathbf{v}) = (\mathbf{f} \mathbf{f}) (\mathbf{f}) (\mathbf{e} \mathbf{e} \mathbf{v}) = (\mathbf{f} \mathbf{e} \mathbf{e} \mathbf{v})$
July 9	9 to 12 A. M.	German (higher B) and *Chemistry (low
	2 to 5 P. M.	*BIOLOUV (LOWER) and *Coology (LOWER)
*Tf	these papers c	Shorogy (lower) and "Geology (lower) didate

*If these papers cannot be given out because some candidate desires to take an examination in the simultaneous paper, they will be given to candidates at an hour announced by the examiner in charge, possibly on Monday or Tuesday following.

JOURNAL OF EDUCATION.



Rural Science School.

AFFILIATED WITH THE PROVINCIAL NORMAL AND AGRICULTURAL COLLEGES AT TRURO, 12TH JULY TO 12TH AUGUST, 1910.

The next Session of the Rural Science School will be held ^{from} July 12th to August 12th, 1910.

The syllabus of the Rural Science Diploma Course is presented below. The syllabus of the Rural Science Diplomation of the syllabus of the Rural Science Diplomation of the syllabus of the Rural Science Diplomation of the syllabus of the attendance may take also the classes in Physical Training and qualify for may take 1 Training Certificate. In addition, optional Qualify for the Physical Training Certificate. In addition, optional Classes for the Physical Training Certificate. In addition, optional classes will be provided in Music and Photography, and it is conthe Nore that for the benefit of those who may not have attended the Nore that for the benefit of pedagogy will be arranged. the Normal College, classes in Pedagogy will be arranged.

RURAL SCIENCE DIPLOMA COURSE

of Courses will be offered in the Principles and Applications and Nature Study, General Biology, Botany, School Gardening, Insect Study, Agriculture, Physics, Chemistry, Bird and Mechanic Science. Insect Study, Geology and Mechanic Science.

These Courses, one or all, will be free to teachers or intending hers and may be taken 1 teachers, and may be taken by:—(a) those who merely wish to extend their knowledge for teaching purposes; (b) those who wish to proceed to the full quality.... wish to proceed to the full qualification required for a Rural Science Diploma.

The work is so arranged that it will be possible for almost teacher to complete the manual possible for almost any teacher to complete the requirements for this Diploma in three summers, or for one alternation of the summers of the summers. three summers, or for one already proficient in the subjects to do so in one term

During the term, as a rule, the time in the forenoons six days in the week—will be devoted to class work. The afternoons five days in the week—to fold five days in the week—to field excursions and individual work in the laboratories

The tests required for the Rural Science Diploma will be lar attendance at the class instruction regular attendance at the class instruction and in the laboratory a satisfactory report by the satisfactory a satisfactory report by the instructors on the class, laboration and field work of the student and field work of the student and the passing of an examination at the close of the term upon the at the close of the term upon the topics of the following syllabus. Due allowance will be made for a time topic of the following the lines Due allowance will be made for reading and study along the between of the course, which a student may prove that he has done, between terms. In this connection books of reference are mentioned under each subject.

SYLLABUS.

NATURE STUDY.

Aims and purposes of Nature Study.

Distinction between Nature Study and information about nature the one hand and formal sciences and on the one hand and formal science on the other.

Stages in Nature Study lessons:-(1) observation (as active actions reience), (2) reasoning upon the experience), (2) reasoning upon the material observed or actions performed, and (3) expressing the st performed, and (3) expressing the observations, actions, judgments. applications, in the most suitable and

Observation in the limited sense distinguished from experiment

Nature Study, a method of teaching by environment and rience, rather than a mass of t experience, rather than a mass of knowledge about nature.

Environment and experience considered and analyzed as the of Nature Study from the new second states. field of Nature Study from the point of view of subject matter.

How geography (in part), physiology (in large part), arith-Metic (in part), may be taught as Nature Study.

The correlations of Nature Study with literature, the expres- \hat{v}_{v_e} arts, arithmetic, mechanic and domestic science, and agri-

The preparation of the Teacher — Proficiency in heuristic (investigational) as distinguished from informational or memoriter Method Methods of instruction; elementary knowledge of the sciences; knowledge of the use of manuals and books of reference with a view of the use of manuals to restate to the pupils but—to wew_not to acquire knowledge to restate to the pupils but—to Buide them in their investigations.

The place of Nature Study in the Time Table.

Tests of the results.

Nature of aids and proper methods of using them --- Books, Metures, microscopes, aquaria, terraria, museum, etc.

The use and abuse of collections.

Reference Book --- Nature Study Dearness (Copp, Clarke (0), Toronto

GENERAL BIOLOGY.

Organization as a product of life.

Organic versus inorganic matter.

Protoplasm.

Cell, tissue, organ; a plant, an animal as biological units.

Chief distinctions between plants and animals.

Mtal activities. Nutrition, reproduction. sensation and volition as groups of

Parasitism.

Characteristics of large divisions of plants and animals:--oneelled plants, algae, fungi, mosses, ferns, conifers, seed-plants one-elled plants, algae, fungi, mosses, ferns, conifers, seed-plants one-tiled plants, algae, fungi, mosses, ferns, conifers, seed-plants onewild plants, algae, fungi, mosses, ferns, conners, seen-plana haemanimals, radiates, neuropods (bi-lateral invertebrates), haemapods (vertebrates), and of the large divisions of the verte-brates of (vertebrates), and of the large divisions of the vertebrates. fishes, amphibians, reptiles, birds and mammals.

Reference --- See under Botany.

BOTANY.

Life history of a typical dicot, monocot, conifer, fern and fungus.

Nature and significance of plant societies and associations,

Characteristics of annual, biennial, perennial; herb, shrub, tree

Organography of seed-bearing plants; form and function chief parts of plant body, shoot, bud, root, flower and seed. dispersion.

Pollination, fertilization, germination.

Carbon-foods of plants, respiration, transpiration; chlorophyll, starch, sugar.

Use of a systematic key to identify flowering plants, including composites, grasses and ferns.

Sufficient acquaintance with the following to recognize them common weeds, useful plants and trees of the gardens, fields, or chards and woodlands of the part of the second se chards and woodlands of the neighborhood.

Phenology of common native plants.

Since the "Seed Control Act" has come into force, farmers throughout the best of the second reaction of Canada have become greatly interested in weeds and word code. will, accordingly, find that a knowledge which will enable them to identify a precise of the state of the sta whether benchcial or injurious to the farmers' interests, will not only be valued but will be greatly appreciated by farmers whose children will engage in this shart in the common schools. The same may be said in regard to a knowledge of such be diseases as Black Knot, Apple Scab, Wheat Rust, or Smut, etc., all of which will studied in the course of Biology and Botany.

Reference Books :- The Principles of Botany, Bergen and Davis (1919) Biology, Bailey and Coleman. Gray's New Manual of Botany, 7th Edition. (American D (American Book Co., New York). Farm Weeds (Department of Agriculture, Canada) Canada).

' SCHOOL GARDENING AND HORTICULTURE.

The educational uses of the cultivation of plants; mental, al, physical and economic value moral, physical and economic values. The school garden a nature study laboratory. Indoor gardening:—The preparation of the soils for potting and seed-planting; putting plants and seeds in pots and window boxes and their care and management.

Study of the germination of seeds and the transplanting, poting and re-potting of plants. Testing the vitality of seeds.

tize, preparation and fertilization of the soil; selection of suitable kinds of flowers and vegetables: planning and laying out the garden; planting and seeding the plots and borders; subsequent cultivation and care of the garden.

Study of the propagation of plants by seeds, cuttings, budding grafting.

The Home-Garden plot as supplementary to the School garden as a substitute for it when the latter cannot be had.

Relation of insects to the plants of field, orchard and garden.

Arbor Day. Tree raising, tree planting, care of trees.

Reference Book -- The Nursery Book. Bailey. (MacMil-& Co).

INSECTS.

The economic phases of insect life will receive special attention.

Mutual relations of insects and plants.

Study of at least twenty-five insects in respect to metamorpho-

Study of certain insects, beneficial or injurious, in field, garden, forest and home.

Structure and adaptations to environment.

Classification so far as to enable a student to place the common rentative of the common orders. In connection with this work will study means of combating insect pest.

Reference Book : Entomology for Beginners, (Packard, Henry Co., N. Y.)

BIRDS.

In this course emphasis will be placed on the study of birds a animals. living animals.

Methods of bird-study in the field.

The careful field-study-appearance, song, flight, -of several s of economic interest our several is song, flight, -of several birds of economic interest, our game birds and their protection

The complete life-history of at least two quite different speciel ird. of bird.

Nesting habits, song, migration and economic values of birds

Structure of bill, wing, leg, feathers and adaptations to education to vironment.

Recognition of our common birds.

Classification:—The characters of the orders represented ^{ip} a Scotia,—the perchers especially Nova Scotia,—the perchers especially.

Reference Book —-Birds of Eastern North America, Chapman Appleton & Co.) (D. Appleton & Co.)

AGRICULTURE.

The types of farming suited to Nova Scotia with a consideration of the underlying principles. tion of the underlying principles. Comparison of the methods pursued by farmers in the variant pursued by farmers in the various parts of the Province. servation of the methods practised at the College Farm.

Field Crops:—The characteristics of the different crops; the methods of successful cultivation of each.

Fertility of the Soil:-Its development and maintenance, principles of the various tille the principles of the various tillage operations, drainage, rotation of crops, fertilizers.

Implements and labor-saving machinery.

Animal husbandry --- The economic principles involved; types breeds of farm animals inclusion and breeds of farm animals including poultry; the necessity of an ideal and the methods of realizing ideal and the methods of realizing it; principles of feeding Ex-management. Observational study of the principles of the Exmanagement. Observational study of the animals on the

Reference Books:-Agriculture, Vol. I, II, Brooks. (King-Richardson Springfield Mass.)

Types and Breeds of Farm Animals, Plumb. (Ginn & Co.)

Other books well be recommended.

GEOLOGY.

The study of the soil as disintegrated rock :- silicates, limestone, sypsum, etc. The rocks to be studied from specimens and as far as possible in their native situation.

Typical geological formations; examination of the local ones; ^{Il}ustration of strata, folds, dip, fracture, weathering, etc.

Formation of river-valley, intervale, salt-marsh, springs.

Study of the nature and significance of some of the common fossils found in our coal and limestone beds.

Review of the geological map of the Province,—each student to Review of the geological map of the frontier, study particularly the part of the map treating of his own heighborhood.

Millan & Co., N Y.) Reference Book --- Introduction to Geology, Scott. (Mac-

PHYSICS.

Making and recording observations upon the elements of Making and recording observations upon the state of the s

The principles and the methods of using instruments to measure temperature, moisture, etc. Methods of improvising simple instruments. forms of some of these instruments.

Practice in making deductions from the various records kept.

The causes and movements of storms.

The study of the principles of mechanics, pressure, force,lever, wheel, screw, etc,—as applied to farm machinery, pumps, etc.

 $k_{nowledge}$ of the elementary principles of physics, heat, electricity).

Reference Books — Practical Physics, Chute. (D. C. Heath & Co.)

The Story of the Atmosphere, Douglass. (Appleton & Co.)

Any good Elementary Treatise on Mechanics.

SOIL PHYSICS.

The methods of taking samples of soil.

Mechanical analysis of three typical soils.

Determination of the percentage of air and water in soil.

Temperature of soil and its modifying factors.

The effects on clay of lime, salt, gypsum and humus.

The relation of size of particles of soil to water-holding power

The capillarity of at least two kinds of soil and the rate of olation through them. Power of percolation through them. Power of air dry soils to absorb water. Texture of soils-heavy and light

Soil Solutions.

Reference Books The Soil, King. (MacMillan & Co.)

CHEMISTRY.

A laboratory course in the chemistry of the farm and home d on the facts and laws of the based on the facts and laws of the science as mastered in the bigh school course

The chemistry of lime as used in whitewash, disinfectant, leaux mixture and cement Bordeaux mixture and cement

The chemistry of carbon; combustion; comparison of fuels

Water,-qualities of different kinds, testing purity and hard ness.

Soap-making.

Plant and animal products,--testing for potash, phosphoric nitrogen, iron, carbon, calcium in a contract, otc The acid, nitrogen, iron, carbon, calcium in bone, seeds, etc. chemistry of starch, sugar, fat, proteid, milk.

Fermentation.

Ultimate and proximate composition of soil.

The chemistry of fertilizers,—testing for elements as above, fertilizers and animal products. Examination of a few commercial fertilizers.

A few simple experiments to illustrate the chemistry of fungides, insecticides, paint, dyes, food-preservatives.

Reference Book :-- Chemistry of Plant and Animal Life, Snyder. (MacMillan & Co.)

BACTERIOLOGY.

An introductory study of bacteria.

Relation to health and disease.

The bacteria of the soil; nitrification; denitrification; ni-favorable in their relation to leguminous plants; conditions favorable to growth of desirable soil-bacteria.

Bacteria in relation to dairying.

Methods of disinfection.

Reference Book :--- Bacteria in Relation to Country Life, Lipman. (MacMillian & Co.)

MECHANIC SCIENCE.

Brush Drawing:-Materials, their preparation and use. A Brush Drawing:-Materials, then proper and brush drawing proper. Ap-plication with the other courses. Alications to nature work in the other courses.

for the development of models. The manipulation of tools and end one of Students to make, at least, ten flat and six solid models one exercise in book-binding.

Wood-work:-The use of the tools. Students to make plant-Press, insect-box and spreading board, or equivalent models.

Salomon. Reference Book:-The Theory of Educational Sloyd, Otto (Geo. Philip & Son, London, Eng.) 13

FACULTY OF THE RURAL SCIENCE SCHOOL WILL BE AS FOLLOWS:

M. CUMMING, B. A., B. S. A., Director and Lecturer in Agric culture and Bacteriology.

C. L. MOORE, M. A., Vice-Director and Lecturer in Biology.

Assisted by the members of the Faculties of the Provincial Normal and Agricultural Colleges.

F. G. MATTHEWS, Instructor in Mechanic Science, Music and Photography.

Should there be a large enrolment of students, a further number of lecturers will be secured, whose names will be announced later. IN THIS CONNECTION, IT WILL, GREATLY ASSIST THE MANAGE MENT IF INTENDING STUDENTS WILL MAKE APPLICATION FOR EN-TRANCE ON OR BEFORE JUNE 25TH. Students can, however, apply for entrance up to and including the opening day of the course.

In order to minimize the expenses of teachers attending this course, the Provincial Government will pay transportation charges (railway, steamer and coach fares), of all teachers who complete the Course to the satisfaction of the instructors. Attention is also called to the fact that, under regulation 138 of the School Law, an additional week or two weeks of vacation may be obtained by teachers taking the Summer Course.

While this course is arranged primarily for teachers, yet any one who is interested in the study of science may attend the classes and receive a full share of attention from the instructors.

Railways will grant to all attending these classes a single fare on the Standard Certificate Plan. Those attending should there fore be sure to obtain the "Standard Certificate" when purchasing a ticket, for only the necessary transportation expenses of teachers can be paid.

For further particulars apply to:-

DAVID SOLOAN, LL. D., Principal Normal College, Truro, N. S. M. CUMMING, B. A., B. S. A., Principal Agr. College, Truro, N. S.

> A. H. MACKAY, LL.D. ; Supt. of Education, Halifax, N. S.

SUPPLEMENTARY CLASSES.

(a)

PHOTOGRAPHY AND MUSIC.

Should there be a sufficient enrolment, classes in Music (Tonic-Sol-Fa) and Photography will also be provided.

(b)

PHYSICAL DRILL

Proficiency in physical exercises is to be imperative on all Proficiency in physical excluses is to be imperative on an lations school teachers. To give greater effectiveness to the regu-lations in the school-law dealing with physical drill in the schools, it is purposed, with the co-operation of the Militia Department of Canado in the session Canada, to provide an instructor in this branch during the session of the Provincial Institutions in Truro of the summer classes at the Provincial Institutions in Truro. Teachers will thus be enabled to qualify as instructors in physical drill. drill in their schools as required by the new law.

(c)

CLASSES FOR BILINGUAL TEACHERS.

Classes in language-methods for bilingual teachers in Acadian schools will open on Tuesday, July thirteenth, and continue till Thurse will open on Tuesday, July thirteenth, and continue till Thursday, August twelfth. Applications for admission should be sent and the principal of The Provincial Normal sent as early as possible to the principal of The Provincial Normal School, Truro.

In view of the very attractive program of work offered this summer in the department of advanced biology. elementary agri-culture in the department of advanced biology, and physical drill, culture, nature-study, music, manual training, and physical drill, it is a nature-study will be large. it is expected that the attendance will be large.

Our Acadian teachers, it is expected, will avail themselves as fully as possible of the opportunities offered in the above classes, carrying as possible of the opportunities offered in the above classes, Carrying back to their schools not only improved methods in lan guage of knowledge, a wider range of suage-teaching, but an increase of knowledge, a wider range of interest which will place their schools in the interests, and an enthusiasm which will place their schools in the forefront of public educational effort.

The new French Readers cannot be legally used in Acadian Schools if the teachers are not able to teach English effectively in colle in colloquial fashion, as indicated in the Report of the Acadian Commission, as indicated in the Report of the distribution of the ity by taking this course.

In the language course, model classes of French pupils will be conducted by pupil-teachers, under the direction of the principal of the school.

Travelling expenses at five cents per mile will be paid to students who are regularly employed teachers in Acadian communities, and who speak both languages with fair fluency.

Under regulation 138 an additional week of vacation may be obtained by teachers taking the summer course.

For particulars respecting the Bilingual School apply to

DAVID SOLOAN, LL. D., Principal, Normal College, Truro, N. S.

Or to the Instructor,

MR. LOUIS A. D'ENTREMONT, West Pubnico, Yarmouth Co.

Summer School of Science.

The twenty-fourth session of the Summer School of Science will be held at Liverpool, N. S., July 13th to August 3rd. The following subjects are studied at the school.

Agriculture, Botany, Geology, Literature, Physical Science, Physiology, Zoology, Entomology, Drawing, Military Drill, and Physical Culture. The following are the Faculty, Prof. W. W Andrews, LL. D., L. A. DeWolfe, M. Sc., D. S. McIntosh, M. Sc. S. A. Starrat, B. Sc., G. J. Oulton, M. A., and P. Barlow.

During the session of the School candidates can qualify for the Elementary Certificate for Military Drill and Physical Culture.

for competition.

Liverpool offers unrivalled attractions both in climatic conditions and scenery for a summer meeting.

The expenses will be moderate. The Secretary, Mr. J. D. Seaman, 63 Bayfield Street, Charlottetown, P. E. I., will give any information in reference to the School.

In preparing for a "Rural Science'' diploma, granted only after examination and certification by the Rural Science School in affiliation with the Normal and Agricultural Colleges at Truro, time certified as being in attendance at this summer school on which a satisfactory examination has been passed and certified, with be accepted as the equivalent of the same *time* required at the Rural Science School itself.

An extra week of vacation may be obtained according to regulation 138 when a satisfactory Course has been followed and passed.

RECOMMENDED TO TEACHERS AND FOR SCHOOL LIBRARIES.

Elementary Agriculture and Nature Study (New Brunswick Bioches, pp. 318, Educational Book Co., Toronto). The conditions Will be practically, as useful here as there.

English Spelling and Spelling Reform by Thomas R. Lounsbury. Emeritus Professor of English in Yale University, 512x8 inches, 357 pages, Harper & Brothers, New York and London, \$1.50.

This is the most generally interesting and practically valuable work of this eminently popular world-wide acknowledged authority Every teacher who has to teach, or correct, or talk on on English. or about English spelling, should know what is in this book. should every educated man, writer, editor and thinker who loves the English language and would save it from the handicap of its orthographic diseases. It should be in every school library.

320 pages, 6x9 inches, on very British Physical Education for Girls. superior paper, profusely illustrated, with songs and music, by A. Alexander, F. R. G. S., and Mrs. Alexander, Principals Southport Physical Training College: late Principals Liver and College late Principals Princip Training College; late Principals Liverpool Gymnasium; Authors of "Physical Training for Childron", "The State of Children", "Physical Training for Children"; "Healthful Exercises for Girls", "Modern Gymnastic Evercises" "Modern Gymnastic Exercises'', etc., etc. Published by McDougal's Educational Company, Limited, London and Edinburgh.

The preface is written by Dr. Paul Diebow, Director of the Royal mastic Institute Berlin and Director of the Royal Gymnastic Institute, Berlin, and Physical Training Expert to the German Government.

It is the best looking and most comprehensive book on the subject Ladies' Colleges Normal Schools for Ladies' Colleges, Normal Schools, and even ordinary public schools, of any we have had the opportunity of examining. It will undoubtedly be a good book for every school like be a good book for every school library as well as for the teacher.

THE ITINERANT AGENT.

From time to time complaints have reached the Education Office, of Agents with expensive and generally useless books other nostrums who are in the second denerally useless books other nostrums who are in the second denerally useless books of the second deneral d other nostrums, who are in the habit of visiting schools and using the name of educational with the name of education of the n the name of educational officials as a guarantee of the value of what they offer they offer.

This is to warn all teachers, and especially the young or inex-In the perienced, not to have any dealings with such persons. JOURNAL will be found all the books recommended by the educational authorities. If a too have books recommended by the education of the start will tional authorities. If a teacher wishes to add to her library, it will be safer to buy through a reliable to add to her library, it rebe safer to buy through a reliable local dealer, than from an intersponsible itinerant agent, who should never be permitted to interrupt the school for a moment.



JOURNAL OF EDUCATION.

APRIL, 1910.

OFFICIAL NOTICES.

The full number of legal teaching days in the half school year ended hext it is also 102 days. In this school year to the end of June

¹⁹ 10.		Summer Calendar, 1910.
April Mar	18.	Fourth Quarter of the School term begins.
Man	1.	Fourth Quarter of the School cermination Applications. University Post-Graduate Examination Applications.
May May	6.	Arbor Day.
May	23.	Empire Day.
May	24.	Empire Day. Victoria Day (Holiday), H. S. Exam. Applications.
	31.	School flags to be nown in nonor of
June		
Juna	4.	South African Confederation Applications for admission, Rural Science School, Truro. Applications for admission, School Sections
Jun.	25.	
Jun.	27.	Applications for aumission, actional Sections. Regular Annual meetings of School Sections.
JUh.	29.	
Juna	29. 20	Provincial Normal College closes, Truro.
JUL	30	Last authorized teaching day of benefit year.
1111.	1.	Dominion Day.
July	4. 7.	Provincial Examination week begins.
July	10	Last day for Annual School Returns to be received.
	12.	Openings of Summer Schools at Halifax, Truro and Liverpool. (Respectively, the Military, Rural Science, Bilingual and
۸.		(Respectively, the Military, real Science, Blinguar and
Aug.	1	Summer Schools).
Aug.	1.29.	Next School year begins.
Sug.	$\frac{29}{31}$	Regular opening of Public Schools, First Quarter.
Aug Aug Sept Sept	5.	Provincial Educational Association meets, Truro.
Opt.	15.	Labor Day (Holiday).
	±0,	Normal College opens at Truro.
Nov.	14.	Dominion Thanksgiving Day.
	43,	Second Quarter of School Term begins,

DATES OF MEETINGS OF BOARDS OF DISTRICT SCHOOL COMMISSIONERS.

*HALIFAX, RURAL-Thursday, May 26th. †HALIFAX, EAST-Thursday, May 12th. HALIFAX, WEST-Thursday, June 9th. LUNENBURG AND NEW DUBLIN-Friday, May 6th. CHESTER-Wednesday, June 1st. NORTH QUEENS-Wednesday, June 8th. SOUTH QUEENS-Saturday, May 14th. SHELBURNE-Friday, May 13th. BARRINGTON-Wednesday, May 11th. YARMOUTH-Thursday, June 16th. ARGYLE-Friday, June 17th. ANNAPOLIS WEST-Monday, June 13th. ANNAPOLIS, EAST-Tuesday, June 14th. DIGBY-Friday, May 20th. CLARE-Monday, May, 16th. KINGS-Tuesday, May 10th.

*At Middle Musquodoboit. † Sheet Harbor. 1 Bridgewater.

HANTS, WEST-Friday, May 13th. +HANTS, EAST-Wednesday, June 15th. ANTIGONISH-Wednesday, May 11th. GUYSBORO-Tuesday, May 17th. ST. MARY-Wednesday, June 1st. CAPE BRETON-Tuesday, May 17th. VICTORIA—Wednesday, June 8th. **INVERNESS, NORTH—Wednesday, June 1st. INVERNESS, SOUTH-Tuesday, June 7th. RICHMOND-Wednesday, July 13th. PICTOU, SOUTH-Thursday, May 12th. PICTOU, NORTH-Friday, May 13th. PARRSBORO-Wednesday, May 18th. CUMBERLAND-Wednesday, May 25th. COLCHESTER, SOUTH-Tuesday, May 3rd. ***Colchester, West-Thursday, May 5th, STIRLING—Friday, May 20th.

✦At Elmsdale. **Margaree Forks. ***Great Village.

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DISTRICT SCHOOL COMMISSIONERS.

(Appointed September, 1st, 1909.)

QUEENS, NORTH-Rev. T. O'Sullivan, W. Caledonia. QUEENS, NORTH-Rev. 1. O. Stand, Liverpool. UEENS, SOUTH-Rev. H. L. Haslam, Liverpool. P. Freeman, Milton. Leander Publicover, White Point. Isaiah Huskins, Port Medway. Rupert H. Gardner, Brooklyn. L. J. Atkins, Port Medway. Dr. F. P. Smith, Mill Village.

(Appointed February 23rd, 1910.)

HALLEAX, RURAL-Rev. W. J. Fowler, Little River. Rev. W. J. Wright, Middle Musquodoboit. INVERNESS, SOUTH-Rev. Alex. Ferguson, West Bay. INVERNESS, SOUTH-Rev. Alex. Ferguson, West Bay. INVERNESS, SOUTH-Rev. Alex. Ferguson, West and Harbor.

(Appointed March 29th, 1910.)

ANTIGONISH-Rev. Ronald Beaton, Georgeville. Rev. Alex. McLeod, Loch Katrine.

CAPE BRETON-Rev. Angus R. McDonald, Christmas Island. Marion Bridge. Rev. L. McMillan, Marion Bridge.

Rev. J. W. McIsaac, Little Bras D'Or.

Rev. M. Campbell, Gabarus.

CLARE Simeon Comeau, Concessions. SHELBURNE-Rev. W. W. Conrad, Shelburne.

Rev. D. V. Warner, Shelburne.

H. H. West, Shelburne.

(Appointed April 23rd, 1910.)

HALIPAX, WEST-Sidney Stephen, Windsor Junction. W. Temple, Waverlev. Awriconish-Rev. M. H. McCormack, Lochaber. W. J. Logan, Musquodoboit Harbor. Victoria-Angus McInnis, Baddeck. Guysboro. Wm. Cunningham, Guysboro. Rev. Maurice M. Tompkins, Guysboro. J. A. Fulton, Guysboro. William Scott, Queensport.

Geo. Aikins, Boylston.

SECTIONS TO BE PLACED IN SECOND SCHEDULE,

1st August, 1910.

Inspectorial Division, No. 3, Yarmouth. No. 4. Central Chebogue.

Inspectorial Division, No. 6, Antigonish and Guysboro,

No. 70. Auld's Cove.

Inspectorial Division, No. 7. Richmond, No. 20. Whiteside.

SPECIAL STATISTICS FOR 1910.

The two questions of previous years are to be repeated in this 's Annual return. Toochers year's Annual return. Teachers are requested to read the der finitions of defectives and interiminations of finitions of defectives, and incorrigibles as given in the next para-graph with thoughtful graph, with thoughtfulness. Inspectors are requested to specially report any case in which ially report any case in which a teacher may have answered these or any other question without the teacher may have answered these of any other question without the teacher may have answered these of any other question without the teacher may have answered the teacher may have an any other question without the teacher may have any other question without the teacher may hav or any other question without evidence of intelligent care.

The blank columns 148, 149 and 150 in the Register and Ar Return are to be filled in the The filled in the second nual Return are to be filled in as follows:-

148.-No. of Defectives of school age in Section. 149.-No. of Incorrigibles of school age in Section.

150 .- No. of pupils who have been vaccinated.

"Defectives" are not meant to include the blind and deal, h should be reported in the which should be reported in the columns respectively provided for them. Defectives are feeble minimum respectively provided wit them. Defectives are feeble minded pupils, who have not wit enough to profit by ordinary activity of the sector of enough to profit by ordinary school instruction; but who if edu cated might be able to earn a living cated might be able to earn a living in some capacity, and be saved from the helpless, if not vicious from the helpless, if not vicious, condition which is likely to render them an expense to the public and them an expense to the public and a menace to the morals of the community. Some of this class community. Some of this class may also be more or less defective in sight or hearing. But neither in also be more or less defective in sight or hearing. But neither the School for the Blind nor the School for the Deaf have facility School for the Deaf have facilities for the education of any who are not of normal strength of intell are not of normal strength of intellect. In many countries a large proportion of such pupils are trained. proportion of such pupils are trained to considerable intelligence and self-control, and are able to fill and self-control, and are able to fill useful positions and support themselves.

"Incorrigibles" mean persons of school age who cannot be tively controlled by their and effectively controlled by their parents or guardians, or the school authorities; but who have not parents or guardians, or the school are They are authorities; but who have not yet become criminals.

by a same truants as a rule, but presumably capable of being trained by a firm, kind and intelligent hand into self-respecting, self-contolled and moral citizens. It is hoped that both teachers and tustees will be able to furnish an accurate estimate of the number of such pupils in their school section.

SUPPLEMENTARY ANNUAL RETURN, 1910.

The following additional information is requested to be sent in the following additional information of letter or foolscap paper, with the Annual returns on a page of letter or foolscap paper, to the the Annual returns on a page of letter or foolscap paper, of any inspector, who after initialling the paper and taking note desire, will send it in a special parcel to the of to the Superintendent of Education.

The name, parent or guardian's name, and address of each The name, parent or guardian's name, and under the dividual counted in the following columns of the Register (and Return)

129 (a) Not in attendance at Institution for Deaf and Dumb.

129 (b) Not in attendance at School for Blind.

148. Defectives.

149. Incorrigibles. And

Ą.

of the pupils in your school? Has there been any regular medical or dental inspection

B, If so, estimate the number of pupils inspected.

or twice? How many times in the year are pupils inspected? Once

D. How many teachers have taken the physical training Course up to date?

The names asked for above will not be published. They Will simply be given to the heads of the institutions provided for them, or it be given to the heads of the institutions provided for them, or those in authority interested in them, for the purpose of commun: those in authority interested in other respects the names and communicating with the parents; in other respects the names and address addresses shall be deemed to be confidential. This return should the principal teacher of the section.

be signed by the Secretary and the principal teacher of the section. Inspectors will please critically examine, correct, classify and this division of their respective inthis information for each subdivision of their respective inspectorates.

AN ACT TO PROVIDE ANNUITIES FOR INSPECTORS OF SCHOOLS.

Be it enacted by the Governor, Council and Assembly, as follows.

1. Every School Inspector shall pay annually into the Provincial Treasury the sum of fifty dollars to be applied to the formation of a fund to be known as the "School Inspectors' Annuity Fund."

2. Every School Inspector who has completed thirty years of as spectorial service shall be entitled on retiring at sixty-five years of as or upwards, to an annuity equal to one seventy-fifth of the annual salar, of such School Inspector at retirement for each year of inspectorial service, and in addition the sum of five dollars for each year of service as teacher in the public schools before appointment as Inspector.

Such annuities shall be paid in semi-annual instalments.

3. Every School Inspector who has not reached the age of sixt five years, and who, in the opinion of the Council of Public Instruction, is by reason of sickness or other permanent disability incapable of efficiently performing his duties and of otherwise earning a livelihood, shall, on recommendation of the Council of Public Instruction, be entitled on retirement to a like annuity to that provided in the preceding section.

4. No annuity payable under the preceding sections of this Act shall in any case exceed \$600.00.

5. Notwithstanding anything contained in the provisions of the Act, James H. Munro of Yarmouth, late inspector of schools for set Districts of Yarmouth and Shelburne, upon his retirement from set office after twenty years of Inspectorial service and thirty-five years of teacher in the public schools, shall be entitled to the annuity provided in section 2 hereof, to the same extent as though his retirement had taken place immediately after the passing of this Act.

THE NEW COMMON SCHOOL COURSE OF STUDY.

Beginning on page 78 will be found the report of the Committee of Sixteen in revision of the course of study for the common school grades. It is published here so that every one may be able to have it studied before the Educational Convention at Truro, where it is to be discussed and amended.

In its present form it is not suitable as a handbook for untrained teachers, even in graded schools. In some parts is should be condensed, and in other parts extended, and the whole edited on a uniform plan, to be useful even in graded schools.

For ungraded schools and partially graded schools, it will have to be still further adapted to the different types.

Every one interested in public education, should therefore commence to study this report at once, so that it may be dealt with intelligent to study this report at once, so that it may be dealt with intelligently and effectively at the Convention. The idea of some Reople is, that the course of study with full directions for the teach-tr, should be the teache, should be published in the form of a hand book. It is extremely important in such event, that such a guide to the teacher should be present in such event, that such a guide to the teacher should prepared with much consideration and great care.

EMPIRE DAY.

The proper flag for Empire Day is not the Nova Scotian flag, or the proper flag for Empire Day is not the former is in place on the ed style Canadian flag (so-called). The former is in place on the flags at at hour of June, the latter on Dominion Day, if the flags are at hand. At some celebrations of Empire Day the orators talked as if it were a Dominion Day occasion.

Within the last year no less than two little books have been Within the last year no less than two mene Day celebration a year earth giving the date of the first Empire Day celebration a set earth and May, 1899. Nova Scotia was year earlier than the true date, 23rd May, 1899. Nova Scotia was the first than the true date, 23rd May, 1899. the first country to make Empire Day a public school institution, (18th A country to make Empire Day a full of Ontario advo-(18th August, 1898), although Mrs. Fessenden of Ontario advo-rated previously a "patriotic day" which was the origin of the novement in Ontario.

Lord Meath has carried the movement into every part of Briting Meath has carried the 24th of May, our Victoria day the British empire; but it is the 24th of May, our Victoria day, Which has been but it is the 24th of May is a school day in Can-Which he has been exploiting. Empire Day is a school day in Can-ada, a that he has been exploiting. Empire Day is a school day is the holiday. ada a very important school day. Victoria Day is the holiday.

Wick recommend the "Union Jack" as the school flag. In Nova Scotia, we found that the "Union Jack" had a special mean-be hot on the Navy, but as used in the Army. The Lord Meath and the authorities in Ontario and New Bruns-Red encity as used in the "Union Jack" in its upper quarter hed ensign which has the "Union Jack" in its upper quarter has always been the democratic Empire flag without any special is always been the democratic Empire flag without any special it was the except the great significance of British citizenship. Nova South of the second to see the "union" flown any-Nova Scotia. While we are glad to see the "union" flown any-where has the second not give up the use of the flag we started Where Scotia. While we are glad to see the union normal and the by itself, we need not give up the use of the flag we started with with the second house will not bring up by itself, we need not give up the use of the hag we set with with. The red ensign over a school house will not bring up the officer. The red ensign over a school house will not bring up With. The red ensign over a school house will not set the the head from the Army or the Navy, under the impression that head from the Army or the Navy is located there. And the bead quarters officer commanding is located there. And

the red fly of the flag makes even the "Union" more conspicuous against the green foliage in the landscape of every rural school.

Every school should have its flag, to be flown on special test casions which for the present are left to the judgment of the ter cher and school board. In New Brunswick, certain days are spec-ified; and a ritual for school board. ified; and a ritual for saluting the flag is prescribed. leaving these features to be developed spontaneously, in order to have an opportunity of the to have an opportunity of discovering by the evolutionary method the most effective form of the most effective form for future general recommendation.

FIRST NATAL DAY OF UNITED SOUTH AFRICA.

On the 31st of May, Cape Colony, The Transvaal, Natal and old Orange River Republic will be the old Orange River Republic will become one British Confederation under the name of United South the tion under the name of United South Africa, with Pretoria of capital and Cape town the seat of the capital and Cape town the seat of the Legislature. This is one of the days on which the Empire for the Legislature. This is a hool. the days on which the Empire flag should be flown over every school.

THE NOVA SCOTIA PHYSICAL TRAINING SYSTEM.

The Provinces of Ontario and New Brunswick have adopted our system of Physical and Military training in the Public schools the system also being adopted in the the system also being adopted in the schools of Great Britain Several other provinces of Consider the schools of Great within Several other provinces of Canada are likely to adopt it within the present year. The system is likely to become universal through out the empire: so that there shall be out the empire; so that there shall be one language of move ment, not only in our schoole but in the schoole but is the schoole but in the schoole but in the schoole but is the schoole but in the schoole but in the schoole but is the schoole ment, not only in our schools, but in all the schools of canada, and probably also throughout it and probably also throughout the empire. We add the army with its uniform drill to the Trans with its uniform drill to the Tennysonian trilogy of empire,

> One flag, one fleet, One army, one throne, For the peace of the people, And the hopes of the home.

SCHOOL READERS.

As so many questions have been lately asked with reference the history and policy of the to the history and policy of the supply of school readers in Nova Scotia and Canada, the following Scotia and Canada, the following notes may be of interest to the public:

I. Nova Scotian System for Cheap Reading Books.

Since 1867 School Sections have had the power to supply Pupils with school books free, or at half price, or at wholesale rates, or in any other manner deemed best for all the parties concerned.

For a few years the Provincial Government aided sections by paying one half, and then one third of the cost of books required.

But even with this inducement all but a very few school Sections practically decided, that the advantages gained did not compare practically decided, that the interference by temporary compensate for the trouble of the interference by temporary school officials with the regular distribution of the books through the model official with the regular distribution of the books through the usual business channels. The government thereupon with-dren, at business channels. drew this aid without any public objections, and granted increased aid to aid to poor sections in pioneer settlements.

The reasons why so few of the town and rural school sections Would even venture to try the free supply of books have been stated as follows:

 $\mathbf{W}_{ould}^{(a)}$ There is a feeling that to make books free in the common school grades alone for the so trifling an easement to even the poor, that it would be no compensation the truth the t for the trouble of management and the petty annoyances arising from their distribu-tion and an ensement to even the poor, that it would be to make the trouble of management and the petty annoyances arising from their distribu-tion and an ensement and the petty annoyances arising from their distribu-tion and an ensement and the petty annoyances arising from their distribu-tion and an ensement and the petty annoyances arising from their distribu-tion and an ensement and the petty annoyances arising from their distribu-tion and an ensement and the petty annoyances arising from their distribu-tion and an ensement and the petty annoyances arising from their distribu-tion and an ensement and the petty annoyances arising from their distribu-tion and an ensement and the petty annoyances arising from their distribu-tion and an ensement and the petty annoyances arising from the formation and the petty annoyances arising from the formation and the petty annoyances arising from the formation and the petty annoyances arising from the petty annoyance arising from the formation and the petty annoyance arising from the formation and the petty annoyance arising from the petty annoyance arising from the petty and the petty and the petty annoyance arising from the petty and the the trouble of management and the petty annoyances arising from the the trouble of management and the petty annoyances arising from the the trouble of management and the petty annoyances as well would be to make the masses pay care; while to make them free in the high schools as well would be to make the masses pay for the more expensive texts needed by the few. The Readers for a pupil for the more expensive texts needed by the few. The Readers for a pupil for the more expensive texts needed by the few. Pupil for the whole eight years of his common school course will cost on the average only about 20 whole eight years of his common school course will cost on the average the same books when cared for as pupils should be by for the whole eight years of his common school course that are being no average taught to are been year, and the same books when cared for as pupils should be have been year, and the same books of the family—there being no all the same family. The taught to care for them, may do for several members of the same family. The Again to cents per year, and the several members of the same family. Average cost in the use of the same books by members of the same family. Average cost in the use of the same books copy and even drawing books included, in the books, copy and even drawing books included, in average cost per year of all the books, copy and even drawing books included, in the sommon set per year of all the books, copy and eventy-five cents a year on the average.

winge cost per year of all the books, copy and even unaming school course need not amount to seventy-five cents a year on the average. for (b) There are very strong objections to the use of text books which have been by his parent in the hands of other and unknown pupils; therefore, every pupil backed ball. There are very strong objections to the use of text books which have been ball. There are very strong objections to the use of text books which have been ball. There are very strong objections to the use of text books which have been ball. There are very strong objections to the use of text books which have been ball. There are very strong objections to the use of text books which have been ball. There are very strong objections to the use of text books which have been by his parent. by his parents would demand a new book whenever he needed one. This would pro-bably double is would demand a new book whenever he needed one. This would pro-bably double is would demand a new book whenever he needed one. This would probaby double the number of books used, a reason why publishers are incessant in movindividuals to keep the question before the unthinking public.

h w(c) The personal ownership and care of books is one of the most important things for fireh the pupil should be trained so as to become a habit, in order to prepare him fire a limit of the pupil should be trained so as to become a habit. Which the personal ownership and so as to become a have, in that to proper the frugal living and the conservation of what he may acquire, to save him from the of thrift. vice of thriftlessness, and the thoughtless loss of valuable rproperty.

their books at wholesale rates and supply them free to their pupils.

charging the difference to the public funds. As in Ontario they can supply them at less than cost but

hands of their people in the regular trade, and give the distribu-

tion of the books to vendors appointed by themselves who will be paid a percentage out of the public funds.

9 ADVANTAGES AND DISADVANTAGES.

Each of these methods has the advantage of supplying the books ostensibly at less than its regular natural cost to the pupil. But each has the discular But each has the disadvantages (1) of misleading the public as to the regular natural price of the public the to the regular natural price or cost of the book; (2) of hiding the actual cost of school book actual cost of school book supply by merging the expense with sectional or provincial expenditure; (3) of taking the regular business of bookselling from those taking the regular business of bookselling from those trained to conduct it and de pending on it for a limit to pending on it for a living, to a government which can thus in crease its potrous and and the second crease its patronage and run the risk of making the books cost actually a great deal more to the country; and (4) of interfering with local matters which can be most with local matters which can be most economically and correctly managed by those responsible for the managed by those responsible for the general management of the school. school.

3 Our Present Readers.

After holding on to the old Royal Readers for nearly thirty years and being for years nagged at in the press for so doing, the Council brought out the Council brought out the present series.

The new Nova Scotian Readers have been edited by one of Mr. the ablest and most experienced educationists in Canada, rest Saul, and another of the ablest and most experienced in Great Britain. Mr. Gunn The former is it most experienced in sub-Britain, Mr. Gunn. The former is the editor of the Morang pub-lishing company in Toronto, and the latter of the great Nelson house, Edinburgh. These firms more and the latter of the great Nelson house, Edinburgh. These firms were approved after a searching investigation by a committee of investigation by a committee of nine, which examined the Readers and proposals of publichers in the and proposals of publishers in Canada, Great Britain and the United States And finally the United States. And finally the editorial selections and arrangements were subjected by the ments were subjected by the committee to at least a threefold revision by this committee revision by this committee relief revision by this committee, which contained the ablest representative Educational authorities in contained the ablest representative tative Educational authorities in Nova Scotia, one of them later becoming the Archbishop of the D becoming the Archbishop of the Province, and another the Presi-dent of the University of Social Province, and another the president of the University of Saskatchewan. There are no cheaper Readers of equal merit publicit. There are no cheaper Readers of equal merit published in Great Britain, Canada, the United States, it is believed on good authority. And they are sold at this cheap natural price of good authority. are sold at this cheap natural price covering the cost of royalty, editorial work, typesetting editorial work, typesetting, stereotype plate-making, printing, binding and distribution the binding and distribution through the regular trade, without making a charge of one dollar on the second also, a charge of one dollar on the revenue of the country; and, also, it should be said, without interferi it should be said, without interfering with the legitimate business of any class of citizene and mith ernment patronage with all its dangers.

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The only complaint persistently coming to the notice of, the Education Department is, that the price of Readers I, II and III, is so low that sufficient discount cannot be given to the retail accidents of bad debts. They handle the books practically without profit, and for the public convenience. The publishers maintain and show evidence for it, that they cannot give larger discounts and continue publishing at the prices. The discounts to the trade by the Nelsons, is understood to be satisfactory; for they appear to be able to publish more economically than the Toronto firm.

Were any of the other methods adopted by the provincial Government, the cost of the books to the province would possibly streater, legitimate business would be arbitrarily interfered with, but the government would secure more patronage at the expense of the province and displaced trade business, and individuals would get some books at less than actual cost.

4. Conclusions.

About forty years ago we tried the plan of cheapening school apparently. It was given up without any regret, nore needed.

Our law at present gives full power to school sections to provide school books *free* or at any degree of reduced cost, under local supervision where no irregularities can easily be covered up.

To artificially cheapen by subsidy etc., a few books by a few cents, and leave many others to be procured at their natural cost, demoralises the public judgment as to the true cost of books. This is very marked in our province. It has also deceived people in this province.

Books at the regular natural prices are the easiest of the sidies school needs to be obtained by all. The Provincial subsupply should be applied for the important needs not so readily plyable by parents or school boards.

tically present plan is the simplest, the fairest to all, and pracliberty the cheapest method of book supply; while allowing the supply any or all books, partially or entirely free.

ENGLISH SPELLING.

When the French take "roast beef" into their own language they simplify the spelling into "rosbif". That is neatly done. Some people under the impression that it is English, use invariably the French "programme," although many English, use invariant cluding the great "Journal of Education" published in London, and Edinburgh, uniformly use the English word "program." The newspaper so English as to use "programme" always uses the United States "enrollment" instead of the English "enrol-ment," evidently thinking that the one with the instead of the English ment," evidently thinking that the one with the extra letter must be English. But this longer spelling never appears in an English Education report Education report.

The fact of the matter is, that most of our busy writers, in the university graduates have cluding university graduates, have never thought of the problem of spelling, have little knowledge of the problem of spelling, have little knowledge of its history, and have no idea of what it costs

In Nova Scotia we have just had to give to our schools in French settlements the privilege of teaching their children in French for the first four ware and in the set of the set o French for the first four years, mainly on account of the difficulty of teaching English to these at of teaching English to those who cannot speak the language, account of its spelling account of its spelling,

The same difficulty prevents the French in Quebec and gners in the other provinces from the provinces from t foreigners in the other provinces from acquiring English so rapidly as they otherwise would the as they otherwise would. It is perfectly impossible for the numerous foreign settlers in our North numerous foreign settlers in our Northwest to learn English at all where they are segmented all where they are segregated so as not to hear it commonly spoken. spoken.

It takes two years out of the total teaching and studying inglish pupils in the comment of English pupils in the common school grades, beyond what an Italian or even a Welch abild Italian or even a Welsh child needs, to master accurate reading and spelling, as was conclusion and spelling, as was conclusively shown by Dr. J. H. Gladstope of the London School Board of the London School Board over thirty years ago.

It has been calculated by one of our ablest modern publishers, the irregularities of English that the irregularities of English spelling cost the British Empire and the United States \$100,000,000 and the United States \$100,000,000 per annum without any compensation, whatever In the Context of the series and the series an pensation, whatever. In the first place, every book, every newspaper published has one several paper published has one seventh more letters than necessary, takes up one seventh more letters than necessary takes up one seventh more space than it should, costs the public one seventh more than it should, costs the public one seventh more than it should—just for the useless letters which the ignorant think look so well.

They think the excrescent letters constitute a beauty of the language; when they are not a part of the language at all, but are really diseases of its written form. They are all, too, diseases of ignorance. And as they handicap the spread of English, retard ignorance. And as they handicap the spread of English, retard its eventual universality, and tax it more extensively than the most villanous trust in existence, the perpetuation of these blunders is a serious reflection on the knowledge, taste and economics of one persisting consciously in their use.

It is therefore with great satisfaction that we find the intelligent Nova Scotian press sympathetic to the movement of reform. Naturally any change will be somewhat of a nuisance to printer. Printers. Vet while not enjoying the prospect of an immediate change. Yet while not enjoying not to be hostile to reform, and change, they have the disposition not to be hostile to reform, and many of them are rapidly adopting more or less of the improve-ments ments recommended by the highest scholarly authorities on the language.

We are just in receipt of communications signed by the leading newspaper publishers, University professors and Educational authorities of Chicago, approving of the direction of the reform of Enclud of English spelling by the simplified spelling Board of the En-glish glish speaking peoples. The managers of all the daily papers of Chicago, except two which are not hostile, have expressed approval of the movement. Both in London and New York, the and the movement. the authorities are preparing a definite list of simplifications—a fourth in provide published, before opening fourth list to be added to those already published, before opening the new campaign.

On every side, the first objection to be heard, is that spelling Cannot be changed artificially. Nothing less true could be stated. Not only changed artificially but con-Not only has nearly every change been made artificially but con-sciously has nearly every change been time prevented from sciously. And spelling is at the present time prevented from improve. And spelling to outensive artificial tyranny that ever improving by the most extensive artificial tyranny that ever existed the tyranny of education laws and examination decrees. In Nove the tyranny of education the first to win our academic free-In Nova Scotia, we have been the first to win our academic free-dom to be to the tyranny of education laws and the state the provincial education system and d_{0m} to improve, from both the provincial education system and the Domining Rut here we must rest until the other the Dominion civil service. But here we must rest until the other proving provinces of Canada, and the rest of the Empire come up to us. W_e^{can} then take a common step in advance.

In the meantime, we shall find it most convenient in our Schools to follow as usual the orthography of our text-books. But our people in the first rank with the rest our people will be prepared to move in the first rank with the rest of the Empire when the time comes. For a very interesting sketch Empire when the time spelling and an illuminating sketch of the history of English spelling, and an illuminating glimpse of its excessive perversions and its profound defects, Professor Lounsbury's bright volume entitled "English spelling and spelling Reform' should be read. The greatest language authorities of Great Britain, Australia and New Zealand and the United States, are leading the movement, and guiding it in [§] definite purposeful direction.

Spanish, Italian, German, Welsh and even South African Dutch have already been simplified. French had its syntax and some spelling reformed in 1900 after a generation of struggle be tween the Ministry of Education and the Academy. But now a large instalment of spelling reform has been agreed to be made permissive in France. English is the last and worst subject for simplification.

In the meantime it is a good rule to use the simplest forms of spelling having good authority, especially as soon as they become passably familiar. But a spelling reformer who finds fault with the blunders of old English spelling, must be even more severe on the introduction of new bad spelling. There is no comfort in the future for the bad speller. The simpler form must have the authority, or else it is making what is bad, still worse. JOURNAL will join the press of Nova Scotia in cautiously carrying out this policy.

CONCLUSIONS CONCERNING VACCINATION.

The outbreak of what might be termed an epidemic of small in various towns of the province and an epidemic of smind pox in various towns of the province naturally again calls to mind the subject of vaccination. We realize the subject of vaccination. the subject of vaccination. We realize that the successful enforce ment of laws for compulsory vaccination is not an easy thing in a democratic community like this. democratic community like this. The individual who reserves being forced to submit to this alleged indignity is apt to work himself into that frame of mind where the indignity is apt to mulsion himself into that frame of mind where his objection to compulsion makes him willing to believe that makes him willing to believe that vaccination is useless and day gerous and objectionable from gerous and objectionable from every standpoint. When he forth reached this stage he is capable of believing the tracts put forth by the anti-vaccination societies and the tracts put, As by the anti-vaccination societies and the "Peculiar People." vears a matter of fact, despite the advances in hygiene of recent years, if an unvaccinated population wars in if an unvaccinated population were allowed to grow up, the scourge of smallpox would again be almost of smallpox would again be almost constantly in our midst with its awful mortality, as it was in the awful mortality, as it was in the centuries gone by. Just let the fuel once accumulate and the contact. fuel once accumulate and the catastrophe will follow with a terrible certainty. A great German scientific with a terrible certainty. A great German scientist, Dr. J. F. Schamburg, the recently published an exhaustive and convincing work on up subject of Vaccination. His conclusions are thus summed

1.—Vaccination, when properly and adequately employed, protects one against smallpox. Even those intimately exposed to the disease, as physicians and nurses in smallpox hospitals, may be rendered completely immune against smallpox by vaccination and revaccination. 2-Vaccination protects against small-Pox in the same manner that one attack of the smallpox protects against a second attack. Vaccination has the special advantage in that the immunity which it confers against smallpox may be renewed the immunity which it confers against smallpox may be renewed when it becomes impaired or exhausted. 3-Vaccination, in order to confer protection, must be genuine; the mere produc-tion of the subject has been tion of a "sore arm'' is of itself no proof that the subject has been successful a "sore arm'' is of itself no proof that the subject has been successfully vaccinated. The vaccination must run a definite course is left in the body. 4course before a protective substance is left in the body. 4-Smallpox may develop in vaccinated persons if they have permitted years years to elapse without being revaccinated. 5—Vaccination and revaccinated are capable of exterminating revaccination universally applied are capable of exterminating mail the experience of Germany mallpox as an epidemic disease. The experience of Germany during the second proves this 6—In isolated induring the past thirty-five years proves this. 6—In isolated in-stances s_{tances}^{iug} the past thirty-five years proves this. m_{av} , individuals in a generally well-vaccinated community may d may develop smallpox because their protection is imperfect as a result of the smallpox because of some other fault result of the use of an inert virus or because of some other fault of teals, will never appreciably influence of technic. These cases, however, will never appreciably influence the prothe prevalence of the disease in such a community. 7-Smallpox was an w_{as} an ever present and terrible pestilence in the days before vaccing. vaccination. In most civilized centers it is to-day a relatively lare discontent in the been effected almost exclusively rare disease. This change has been effected almost exclusively by vacuum of smallpox prevail from time to by vaccination. Epidemics of smallpox prevail from time to time me time when the spark of infection is introduced into the community and a sufficient amount of unvaccinated combustible material exists to find the spark of infection is in unvaccinated combustible material exists to lead to a general conflagration. In countries where vac-cination lead to a general conflagration Russia, etc., etc., smallcination is neglected, as in Persia, Asiatic Russia, etc., etc., small-pox is the neglected, as in Persia, Asiatic Russia, etc., etc., small-Pox is still a death-dealing scourge. 8—The foes of vaccination common of smallpox at the present commonly refer to the infrequency of smallpox at the present day and refer to the infrequency of contracting the disease. They $d_{ay}^{aunonly}$ refer to the intrequency of contracting the disease. They forget to the remote liability of contracting the disease. They is caused forget that the relative security which we now enjoy is caused by vacuity that the relative security can be made absolute or it can be by vaccination. This security can be made absolute or it can be largely ination. This security can be made absolute or it can be largely destroyed, according as vaccination and revaccination are pendestroyed, according neglected. 9—The dangers are generally employed or generally neglected. 9—The dangers connected with vaccination have been greatly exaggerated by Vaccination causes an abrasion of the the opponents of this measure. Vaccination causes an abrasion of the skin, and this measure this wound, like other wounds, may skin, and, in rare instances, this wound, like other wounds, may become infected, especially when neglected or maltreated. the infected, especially when neglected or mattreated. during election of a proper virus and care of the vaccination site duting and after vaccination, the risk in any individual instance is entirely negligible quantity.

 D_{r} , E. Blackadder. Editorial in ACADIAN RECORDER, 26 April, 1910. Editor.

NOVA SCOTIA

LEADS IN TAKING STOCK OF NATURAL RESOURCES.

"Gone are the forests primeval', not merely in the storied Grand Pre valley, but throughout the rest of the province of Nova Scotia as well, but that Scotia as well; but that province has still valuable forests and and has determined to take measures for their proper use and conservation. With this are interested to the interest of the int conservation. With this end in view, the provincial authorities during the past summer (1909) began to "take stock" of their remaining forests and immuno the stock of the sto remaining forests and inaugurated a survey of their forest and other crown lands. Never a survey of their forest the other crown lands. Nova Scotia is thus the leader among lth. provinces of the Dominion in making inventory of its forest wealth.

Dr. B. E. Fernow, dean of the Faculty of Forestry of the Dr. Fer-University of Toronto, was given charge of the survey. now is one of the pioneers of forestry in America, having prominently connected with the forestry prominently connected with the forestry movement since forestry began to be thought of on this began to be thought of on this continent. Associated with him were the Chief Fire Worden of the were the Chief Fire Warden of the province and several trained foresters. Only a rough automatic art foresters. Only a rough survey, or "reconnaisance", was at tempted. tempted.

So far the southwestern part of the province, from Hants county westward, has been surveyed. The total area covered is about 8500 square miles. The county area covered surveyed. about 8500 square miles. The cost of the survey has been mile. prisingly low, averaging less than twenty cents per square mile.

In the survey each member of the party was given a certain ict and was left to his own discretion district and was left to his own discretion as to his method of accomplishing the work in hard. complishing the work in hand. Where practical and advisable, records already in existence were utility records already in existence were utilized, with a view of saving time and expense. as was also information with a view of saving time and expense. time and expense, as was also information secured from reliable and well-informed persons having in the secured from reliable and well-informed persons having knowledge of certain districts the The fieldwork consisted largely in checking this information, the study of forest types, etc. This information was plotted in On field directly on maps (on the scale of the study of the scale of the s field directly on maps (on the scale of two inches to the mile.) the these were noted such points as the extent of the burned areas, the degree of cutting on cut-over areas. the degree of cutting on cut-over areas, the composition of the forest, the condition of the voing the condition of the young growth or "reproduction", and the character of the farming lands, meadows etc., within the farming country.

Dr. Fernow is hopeful as to the future of the forest. with es: "Although the data on a state future of the forest." writes: "Although the data on reproduction and rate of growth are not yet collected, it is safe to are not yet collected, it is safe to say that, if the fires are kept per (and apparently with the present (and apparently with the present organization still further pin fected this can be done reasonable fected this can be done reasonably well) there is no difficulty if restocking by natural means and well) there is no difficulty if restocking by natural means most of the cut-over areas, if pot too severely culled. In the pure hemlock-spruce stands all that is necessary is to remove the old hemlock thoroughly and cleanly to have the young growth of spruce, already on the ground, take its place.''

Very often, however, in his opinion, the rate of growth of spruce is exaggerated. The white spruce, growing in comparatively open situations, may, he thinks, make a sawlog in sixty years. The forest spruce, which is largely red spruce, grows more dred years.

To a large extent different species of trees are confined to, or found most numerous in, certain definite areas. The white pine is the most abundantly in Shelburne and parts of Queen's counties Digby county.

Up to the present, knowledge of Canada's forested areas, the stands of timber thereon and many other questions relating to our timber wealth has been almost entirely guesswork. The significance of Nova Scotia's action is that she has been the first among the provinces of the Dominion to substitute certain (even though only approximate knowledge for guesses. The province is to be congrathat the authorities of the Dominion and of the other provinces may soon see their way clear to follow the example thus set.

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