# JOURNAL

OF

# EDUCATION

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THE SUPERINTENDENT OF EDUCATION FOR

## NOVA SCOTIA

APRIL, 1912.



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I.—The JOURNAL OF EDUCATION shall be published semi-annually, in the months of April and October respectively, and shall continue to be the medium of Official Notices in connection with the Department of Education.

II.—The JOURNAL which is the Semi-annual Supplement of the Education Report, will be furnished gratuitously, according to law, to each Inspector, Chairman of Commissioners and Board of Trustees; and will be supplied to other parties wishing it at the rate of ten cents a copy.

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To Teachers employed in the Public Schools for the half year ended, Feb. 2nd, 1912.

The Asterisk (\*) marks those employed in Poor Sections.

mber of Teaching	it paid to Teachers from Provincial
Days employed.	Treasury.
Number o	Am't paid ters from P
Days ea	Treasury

ANNAPOL	15	4
	11:0.	
Martin Q. McNutt	98	99 87
Ruggles Lenfest	102	103 97
Whitman Elbert J.	102	59 41
Balcom Irene C.	19	11 05
Banks Beriah S.	103	60 00
Banks Wilford E.	$102\frac{1}{2}$	59 70
Berry Ruperta L.	63	36 69
Bowley Jessie I. Bowser M. Frances	103	60 00
Bowser M. Frances	103	60 00
Brooks Estella M.	103	60 00
Bustin Harry L.	98	57 07
Charlton Mabel E.	103	60 00
Chesley Carrie E.	102	59 41
Chivers Gladys P.	103	60 00
Chute Flossie H.	103	60 00
Davis May T.	103	60 00
Dexter, Mattie A. G.	103	60 00
Durling, Ina	103	60*00
Durling, Ina Elliott, Sr. Primrose	79	46,01
Gesner, Agnes P.	103	60 00
Gilliatt, Ruth E.	103	60 00
Gormley, Katherine 1.	103	60 00
Graves, Ena E.	103	60 00
Graves Laura H.	98	57 07
Hardwicke Helen M.	103	60 00
Harris C. Louise	98	57 07
Lee Minnie M.	103	60 00
Longley Ella F.	102	59 41
Longley Hilda M.	103	60 00
McGill Flora M.	103	60 00
McGinnis Gladys R.	103	60 00
McMurtery Haidee P.	103	60 00
McWhinnie Elizabeth	103	60 00
Neily Edith M.	94	54 74
Palfrey Mary M.	98	57 07
Phillips Carrie E. B.	103	60 00
Phinney M. Gwendolyn	103	60 00
Robbins Myrtle J.	98	57 07
Ruggles Florence L.	102	59 41
Snow Delma	74	43 09
Spinney Hattie S.	103	60 00
Spinney Theo. H.	100	58 25
Thorne Alice E.	103	60 00
I Hollie Mile E.	103	60 00
Tibert Walton K.	103	60 00
VanBuskirk John L.	103	60 00
Wade Edna M.	100	00 00

Wheelock Mildred E.	98	57 07
Withers Lulu B.	103	60 00
Woodward Lola M.	103	60 00
Woodworth B. May	103	60 00
Baker Ermina M.	25	10 91
Baker Kathleen A.	103	45 00
Banks Ida B.	103	45 00
Brinton Birdie P.	103	45 00
Chute Zephina B.	103	45 00
Crowe Bessie H.	98	42 80
Ellis Florence M.	20	8 72
Hall Eunice M.	103	45 00 45 00
Hebb Maud G. Hoyt Bessie G.	103	2 00
Hoyt Bessie G.	103	45 00 44 56
Hutchinson Nina B.	102	45 00
Jackson Annie L.	103	42 80
Laird Elizabeth E.	98	45 00
Locke F. Alberta	103	$\frac{1}{22} \frac{27}{27}$
Longley Annie G.	51	12 80
Margeson Hanna L. McBride Bessie V.	$\begin{array}{c} 98 \\ 103 \end{array}$	45.00
McCormick Albert E.	103	45 00
Mills Hattie G.	103	45 00
Morse Nellie C.	$51\frac{1}{2}$	22 49
Nauglar Lilla M.	103	15 00
Patterson Lulu M.	103	45 00
Phinney Jennie D.	103	45 00
Phinney Mary S.	103	45 00
Roy Maud E.	103	45 00 45 00
Ruggles Annie B.	103	30 40.
Shortliffe Nina M.	101	4.
Simpson Lizzie M.	<b>5</b> 3	40
Trimper Catherine R.	88	38 45 44 56
Troop Beatrice E.	102	45 00
Troop Bessie L.	103	75 00
Wambolt Gertrude V. Whitman Minnie C.	103	
Withrow Elsie M.	$\begin{array}{c} 102 \\ 101 \end{array}$	44 14
Young Flossie C.	103	45 00
*Acker Beulah B.	54	20 91
Andrews Nina B.	$98\frac{1}{2}$	28 68
Armstrong Mary M.	102	29 70 20 00
Armstrong Mary M. Beardsley Jos. D.	103	20, 00
Dent Rhoda M	103	~ : A(I
*Buckler Alma L.	103	40 .0
Camer Anna A	103	0. 01
"Campbell Irma R	42	$\frac{16}{34} \frac{56}{56}$
Campbell Mary 1	89	02 11
	78	25 91
Crawford Llilian E.	89	25 04
Dargie Charlotte E. Downie Helena G.	88	30 00
Elliott Mabel I.	103	30 00
Fairn Bessie C.	$\begin{array}{c} 103 \\ 103 \end{array}$	30 00
Fairii Henrietta M	102	29 70
Gillatt Robia C	89	
Coodspeed Claima V	103	
Marris Wildrod I	103	00 01
Hassett Helena	86	
Haves W. Evangelina	98	57 08
mitz Cora E	93	27 08 30 00
Hinds Elsie L.	103	66 00
Holmes Iola M.	103	on hi
*Jackson Lena M.	102	33 39
*Lambertson Minnie G.	86	30 00
Lambertson Myrtle F.	103	30 00
Longley Cora M.	103	- ,

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Mannell I Di I I D 00	25.04	37 1 11 4 50	6 6 60
Mappelbeck Elizabeth D. 89	25 91	Macdonald, A. T.	
McMurtery Mildred E. 103 Miller Bessie B. 102	30 00	McEachern, Elizabeth 10	
	$\begin{array}{cccc} 29 & 70 \\ 23 & 59 \end{array}$	McGillivray, Rose 10	
Millett Kathleen S. 81 *Morton Tessie 88 *Nails B	$\begin{array}{c} 23 & 33 \\ 34 & 17 \end{array}$	McKenzie, Gertrude 10 McKeough, Anna 9	
	34 56		
	40 00	Purcell, Mary Hilda 10 Rogers, William J. 10	
Phinney Annie M. 98	28 53	Stewart, Catherine E. 10	3 45 00
Fourth Motor L. 105	30 00	Sister St. Hugh 10	3 45 00
Reagh Mildred L. 88	25 62	Sister St. Walburga 10	
Sanders E. Grace 103		Sr. St. Mary Matilda 10	
	22 52	Sister M. Irene 10	3 45 00
*Sawler Pearl M. 64 *Simpson Cl. 1. 7	$\overline{24}$ $\overline{85}$	Sister Rose Berchmans 10	
Olmpeon Cladas T 74	$\overline{28}$ $\overline{73}$	Beaton Janet 8	9 25 91
Slocomb Louis W. 84	$\overline{24}$ $\overline{46}$	Boyle Catherine 9	$\frac{27}{27}$ $\frac{08}{08}$
900ddaed 131 - 1400	30 00	Boyle Mary 9	$26 \ 21$
	33 78	Chisholm, Margaret M. 10	
Tompkins Grace 54 Tupper Formic C 102	15 72		
**** Fannie C. 103	45 00	Chisholm, Mary C. 10 Crispo, Sadie Ellen 6	6 19 21
n <sup>Wagner</sup> Sadie E. 103	40 00	Ritzgerald Annie 10	20 00
Wood Bernard G. 103	30 00	Forrestall, Evelyn E. 10	2 29 70
Wagner Sadie E. 103 Wood Bernard G. 103 *Wright Elta M. 83 *Wright Lena B. 89	32 23	Gillis, Sadie 10	30 00
*Wright Lena B. 89	3 <b>4 56</b>	Homer, Catherine C. 8	5 25 04
		Leydon, Jean F. 10	30 00
		Homer, Catherine C.  Leydon, Jean F.  Mariin, Ellen  McArthur, Janet  Macdonald, Annie  Macdonald, Mary  Macdonald, Mary C.  Macdonald, Heprietta	3   27.95
		McArthur, Janet 10	29 70
Annuitants.		Macdonald, Annie 10	29 70
Shaffner Sam C. Brown Alexand D.		Macdonald, Mary 8	7 25 33
Brown Alfred D.	75 00	Macdonald, Mary C. 9	7 28 24
Munro Allred D.	60 00		
Richard	60 00	Macdonald, Catherine 9	
Vidito Hall Rebecca A.	60 00	Macdonald, Laura B. 10	
Jones Tr.	60 00	Macdonald, Catherine M. 8	6 25 04
Sanders Asia C.	45 00	Macdougall, Hyacintha 9	7 28 24
Sanders Arthur W.	45 00	McEachern, Penciope	9 25 91 3 25 04
		Molecule Annie	3 25 62
ANTIGONISH.		Macdougall, Hyacintha 9 McEachern, Penclope 8 McInnis, Annie 80 McInnis Annie 80 McPherson, Sarah 73 Purcell, Jennie A. 10	22 7 <sub>1</sub>
		Purcell, Jennie A. 103	30 00
Sr. St. Thomas Jos August 103	73 36	Sister St. Thomas de S. C. 108	30 00
	75 00	Sister St. Helen 103	30 00
Tompkins, J. J. 84 McLeod, John W. 84 Porter, Sadie E. 103 Chisholm, William J. 103 Hulbert, Hazel D. 103 McAmis, Katie 103 Macdonald M. 1103	85 61		
Parted John W. 84	73 36		S•
Sim Sadie E 103	90 00		
Chi-i St. Leonard 103	90 00	Boyd, Effic Ann 100	
Hulf Nilliam L. 103	60 00	Bray James I 62	24 07
Modert, Hazel D. 103	60 00	Chisholm, Florence 89	34 56
McAmis, Katie Macdonald M. G.	60 00	Chisholm, Margaret A. 74	28 73
Mandonald, Mary C. 102	59 41	Chisholm, Florence Chisholm, Margaret A. Cameron, Annie Campbell, Mary  86	33 39
Mckanald, Sadie 97	56 49	Campbell, Mary 98	36 11
Sister M. Leonora 103 Somers, Alexander M. 103	53 58	Campbell, Mary 95 Decoste, Florence R. 85 Macdonald, Harriett F. 89	34 17
Somera 103	60 00	Macdonald, Harriett F. 89	
Chigh at the Author W. 100	60 00	Macdonald, Annie M. 99	
Chisholm, Dan M. 79 Cameron, Mary C. 98	34 50	Macdonald, Carrie A. 84	32~62
Came. " Cittistina of	37 99	McGillivray Margaret A. 103	40 00
Came 7 Maily C. 70			36 50
Cana 7 Quidii 30	42 80	Ross, Christina M. 94	
	$\frac{42}{42} \frac{80}{80}$	Stewart, Sadie D. 103	
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Gilii Remi 103	42 80 44 56 45 00	Stewart, Sadie D. 103	40 00 29 90
Gillis, Margaret	42 80 44 56 45 00 43 68	Stewart, Sadie D. Watkins, Isabel 77	29 90
Gillis, Margaret 100 Levele, John D. 92	42 80 44 56 45 00 43 68 40 18	Stewart, Sadie D. 103	29 90
Faugerc, Remi 103 Gillis, Margaiet 100 Leydon, Anastasia 103	42 80 44 56 45 00 43 68 40 18 45 00	Stewart, Sadie D. 108 Watkins, Isabel 77  Special Poor Section	29 90 j
Faugerc, Remi 103 Gillis, Margaret 100 Hattie, John D. 92 Leydon, Anastasia 103 Morgan, Edith 98	42 80 44 56 45 00 43 68 40 18 45 00 42 80	Stewart, Sadie D. Watkins, Isabel 77	29 90
Faugere, Remi 103 Gillis, Margaret 100 Hattie, John D. 92 Leydon, Anastasia 103 Morgan, Edith 98 Malins, Annie I. 99	42 80 44 56 45 00 43 68 40 18 45 00 42 80 43 24	Stewart, Sadie D. 103 Watkins, Isabel 77  Special Poor Section College Grant	29 90 pons.
Faugerc, Remi 103 Gillis, Margaret 100 Hattie, John D. 92 Leydon, Anastasia 103 Morgan, Edith 98 Mullins, Annie J. 99 Macdonald, Anna B. 103	42 80 44 56 45 00 43 68 40 18 45 00 42 80 43 24 45 00	Stewart, Sadie D. 108 Watkins, Isabel 77  Special Poor Section	29 90 pons.
Faugerc, Remi 103 Gillis, Margaret 100 Hattie, John D. 92 Leydon, Anastasia 103 Morgan, Edith 98 Mullins, Annie J. 99 Macdonald, Anna B. 103	42 80 44 56 45 00 43 68 40 18 45 00 42 80 43 24 45 00 34 06	Stewart, Sadie D. 108 Watkins, Isabel 77  Special Poor Section College Grant Consolidated School	29 90 ons. 30 00 obs.
Faugere, Remi 103 Gillis, Margaret 100 Hattie, John D. 92 Leydon, Anastasia 103 Morgan, Edith 98 Malins, Annie I. 99	42 80 44 56 45 00 43 68 40 18 45 00 42 80 43 24 45 00	Stewart, Sadie D. 103 Watkins, Isabel 77  Special Poor Section College Grant	29 90 ons. 30 00 obs.

Annuitar	nts.		Goode, Myrtle M.	98	57 07 57 07
Chisholm, Alexander		75 00	Graham, Bessie F. Grant, Jessie M.	98 98	57 07
Gillis, Angus		60 00	Greenwell, Bertha L.	103	60 00 60 00
Gillis, D. McK. Boyd, Angus A.		$\begin{array}{c} 60 & 00 \\ 45 & 00 \end{array}$	Gunn, Annie Gunn, Jessie A.	$\begin{array}{c} 103 \\ 103 \end{array}$	66 00
Bonin, John B.		$\begin{array}{ccc} 15 & 00 \\ 45 & 00 \end{array}$	Harrison, Edna M.	103	60 00
Cameron, Wm. D. Fraser, William		$\begin{array}{ccc} 45 & 00 \\ 45 & 00 \end{array}$	Hennessey, Martha J.	102	59 41 60 00
Macdonald, Donald		30 00	Hoar, Daniel W. Irwin, Margaret J.	$\begin{array}{c} 103 \\ 98 \end{array}$	57 07
Assistant	8.		Kay, Mary E. Kilpatrick, Hattie	103 103	60 00 60 00
		40.50	Kinley, Florence E.	95	55 33 51 24
McPherson, Hugh Connolly, C. J.	84 84	$\begin{array}{ccc} 40 & 76 \\ 32 & 62 \end{array}$	Lawley, James H. Lumsden, Mary E.	88 84	18 92
Cormier, A. H.	84	24 46	MacDougall, Jean	98	57 07
·	_		MacIntosh, Anna B.	98	$\frac{57}{37} \frac{07}{27}$
			MacIntosh, Grace A. McKenzie, Daniel A.	$\begin{array}{c} 64 \\ 98 \end{array}$	57 01
CAPE BRE	TON.		MacLean Christena	103	an 00
Archibald, John T.	98	85 60	McLean, S. Agnes	98	57 07 48 92
Bingay, James	98	99 87	McLean, William MacLennan, Florence	84 98	57 01
Creelman, William A. Davidson, Milton D.	98	99 87	McLennan, Josephine	98	57 07 60 00
Dodds, Agnes A.	103 98 -	$105 00 \\ 71 32$	MacMillan, Katherine McMillan, Victoria K.	103	EA 74
Ellis, Russel	98	85 60	MacNiel, Jennie E.	94 98	57 U
Haverstock, W. Ernest Keating, Florence M.	103 93	$105 00 \\ 81 24$	MacNeil, Katie	103	60 00
MacRae, Mary I.	98	71 32	McPhee, Annie Milburn, Verna V.	$\begin{array}{c} 103 \\ 103 \end{array}$	ลด เข
Matheson, Duncan M.	94 98	82 12	Miller, Katherine F.	103	ደበ መ
Smith, Gertrude O. Trask, J. Logan	98	85 60 85 60	Mingo, Irene Eva	103	60 00 58 83
Douglas, Havelock G.	103	75 00	Munroe, Mary C. Oulton, Charles A.	$\begin{array}{c} 101 \\ 98 \end{array}$	57 01
Smith, Lenore Whyte, Earle F.	$\begin{array}{c} 103 \\ 101 \end{array}$	75 00 73 53	Parker, Lihian	95	55 33 60 00
Aikins, Charles E.	103	60 00	Robertson, Edith Robinson, Stewart I	103	-7 () (
Anderson, M. Blanche	103	60 00	Schurman, Sadie	98 98	57 UI
Arsenault, M. Teresa Baizley, Abby B.	$\frac{103}{5}$	$\begin{smallmatrix}60&00\\2&91\end{smallmatrix}$	Simpson, A. Olive P	103	60 00 57 07
Barss, Muriel L.	103	60 00	Sister Agnes Maria Sister M. Alonzo	$\begin{array}{c} 98 \\ 48 \end{array}$	27 93
Bishop, Emma E.	$\begin{array}{c} 10 \\ 103 \end{array}$	5 82	Sister M. Ambrosia	103	60 00
Bown, Eleanor F. Burke, Domatella M.	101	60 00 58 83	Sister M. Angrea Sister M. Annette	93	57 07 57 07
Burrill, Harold O.	102	59 41	Sister M. Chrysostom .	98 88	51 24
Cameron, Charlotte A. Campbell, Lizzie M.	95 98	55 33   57 07	SISTER AT Clarices	103	$\frac{60}{37} \frac{00}{07}$
Cann, Lillian	103	60 00	Sister M. Caront	98	56 47
Carson, Teresa B. Chisholm, Jennie	$\begin{array}{c} 103 \\ 98 \end{array}$	60 00 57 07 .	Dister M. Locito	$\begin{array}{c} 97 \\ 98 \end{array}$	57 07
Crowell, Annie E.	103	60 00	Sister M. Lawrence Sister Rose Maria	103	60 00
Curry, Delila Pears	102	4 65	Sister St. Bernard	$\begin{array}{c} 103 \\ 98 \end{array}$	57 07
Dawson, J. Arthur Dawson, J. Arthur	$\begin{array}{c} 103 \\ 9 \end{array}$	$\begin{bmatrix} 60 & 00 \\ 5 & 23 \end{bmatrix}$	MOUUT ST M. Ata	98	$\frac{57}{60}  \frac{07}{00}$
Doyle, Cecina J. M.	97	56 49	Sister St. Mary Asc. Smith, Jessie P.	103	zn 07
Edgecombe, Ethel L.	$\begin{array}{c} 98 \\ 103 \end{array}$	57 07	Starker, Elizabeth I	$\begin{array}{c} 98 \\ 103 \end{array}$	ca uv
Egan, Carlotta Foley, Mary E.	98	60 00 57 07	oumvan, Mario	103	60 00 57 07
Fownes, Grace M.	98	57 07	Sutherland, Mary Thurber, Ronald E.	98 98	57 0
Fulton, Edith Irene	- 98 98	57 07 57 07	rownsend, Tillio E	103	$\frac{60}{60}  \frac{09}{00}$
Fulton, Elora'A. Fulton, Lillian M.	103	60 00	Walker, Jean R. Wilton, Richard T.	103	K7 U'
Fulton, M. Eurella	98	57.07	Withrow, Helena H	$\begin{array}{c} 98 \\ 103 \end{array}$	en 00
Gannon, Mary	$\begin{array}{c} 98 \\ 103 \end{array}$	57 07 60 00	Woodbury, Harold C	103	60 00 57 07
Gates, Lena M. Gillis, Katherine	103	60 00	Woodill, Arthur W. Anderson, Isabella	98	12 80
Gillis, Simon P.	98	57 07	Boutilier, Alice R.	$\begin{array}{c} 98 \\ 103 \end{array}$	45 00

Boyle, Harriett M.					-
Broderick M.	$100\frac{1}{2}$	43 90	Moore, Elizabeth	98	42 80
Broderick, Annie Browner, Florence V.	103	45 00	Morrison, Lottie M.	103	45 00
Buel Florence V.	103	45 00	Morrison, Margaret	103	45 00
Burke, Helena B.	92	40 18	Nicholson, Mary V.	103	44 56
Burrell, Narcisse A.	88	38 43	Phillips, Katie E.		
Cameron, Annie	98	42 80	Phoran, Alice	50	21 84
	97	$\frac{12}{42} \frac{30}{37}$	Purcill Alias	103	45 00
Currie, Charlotte S.	99	43 24	Purcill, Alice	84	<b>36</b> 68
Currie, Charlotte S. Currie, Donald J.	103	45 24	Sampson, Mary E.	103	45 00
Currie, Michael D.	96		Simpson, Margaret J.	103	<b>45</b> 00
Currie, Teresa		41 93	Sister M. Ambrose	103	45 00
Curry, Alice B.	98	42 80	Sister M. Annina	103	45 00
Donovan, Catherine	98	42 80	Sister M. Cammillus	98	42 80
Down and Catherine	98	42 80	Sister M. Eulalia	98	42 80
tor East rought of C.	98	42 80	Sister M. Isadore	98	42 80
r rangi. Trans.	102	44 56	Sister M. Leonard	98	42 80
Frage Hildred O.	103	` 45 00	Sister M. Lucina	103	45 00
ryfo i rand r.	98	42 80	Sister M. Oswald	103	45 00
Gillie Magdalen M.	103	45 00	Sister M. Pelagia	103	
Gillie Frankai et	98	42 80	Sister M. Stephen	98	45 00
Gillis, Mary D.	103	$4\overline{5}$ $0\overline{0}$	Sister M. Thomas		42 80
Gillis, Minnie	102	$\frac{10}{44} \frac{56}{56}$	Sister M. Veronica	98	42 80
Goodwin, Leda M.	103	45 00	Classes M. Wile i	98	42 80
Greig, Ida H. Hamilton	103	45 00	Sister M. Wilfrid	103	45 00
Hamilton, Agnes E.	98	$\frac{45}{42} \frac{00}{80}$	Sister St. Aldric	98	42 80
Harris, Gladys E.	98		Sister St. Alexander	103	<b>45</b> 00
Hartigan, Helen		42 80	Sister St. Agustine	98	42 80
Hartigan, Helen Johnston, Agatha	98	42 80	Sister St. Berthold	14	6 10
Johnston Amail	50	21 84	Sister St. Casilda	83	36 <b>2</b> 5
Junes 'Sauna	101	44 12	Sister St. Frances	98	42 80
Nan- " Mary U.	98	42 80	Sister St. Genevieve	98	42 80
Well South College	101	44 12	Sister St. Henedine	103	45 00
Three is the little	103	45 00	Sister St. John C.	103	45 00
	103	45 00	Sister St. Reginald	98	42 80
Same San Collin	96	41 93	Slaven, Elizabeth M.	103	45 00
wigh. "call ti	103	45 00	White, Minnie M.	98	42 80
	10	4 36	Adamson, Mary	103	30 00
	103	45 00	Battersby, Ethel E.	102	29 70
	103	45 00	Baxendale, Annie	79	23 00
McDonald, Annie C. McDonald, Daisy F. McDonald, Edith	82	35 81	Cameron, Hazel B.	100	29 12
McDonald, Daisy F. McDonald, Edith McDonald Long F	98	42 80	Campbell, Florence M.	98	28 53
McDonald, Edith McDonald, Jean F. McDonald, Joanna	98	42 80	Campbell, Margaret	96	$\overline{27}$ 95
McDonald, Jean F. McDonald, Joanna McDonald, Mary L. McDonald, Nellie	98	42 80	Campbell, Maud L.	3	87
McDonald, Joanna	, 98	42 80	Carmichael, Jessie	103	30 00
McDonald, Mary L. McDonald, Nellie McDonald, Norman	98	42 80	Chisholm, Cassie	96	27 95
McDonald, Nellie McDonald, Norman McDonald, Sarah A	98	42 80	Coady, Margaret A.	103	30 00
McDonald, Norman McDonald, Sarah A. McDonald, Theresa	18	7 84	Connors, Michael C.	98	28 53
McDonald, Sarah A.	90	39 31	Connois, Wichael C.	_	
McDonald, Theresa	87	37 99	Cozzolino, Gertrude	15	4 36
Masougall Maria	98	42 80	Crewe, Myra A.	103	30 00
McInthis, Dorothon	103	45 00	Currie, Jessie	83	24 17
Martyre, Marila	98	42 80	Daley, Annie S.	98	28 53
Martsaac, Flimat	98	42 80	Dillon, Agnes W.	98	<b>28 5</b> 3
Mot saac I A			Doyle, Daniel H.	103	$30 \ 00$
M. Saac. M. Saco	15	6 54	Forbes, Florence	98	<b>28 5</b> 3
M. Todac II come	98	42 80	Fraser, Josephine	98	28 53
Markenzia I	98	42 80	Gillis, Margaret	103	30 00
Marketsle 10. 11.	103	45 00	Gillis, Margaret E.	103	30 00
Wastelling I.	103	45 00	Gillis, Mary E.	98	28 53
Win a Million 12	98	42 80	Gillis, Rose A.	51	14 85
Wig - Million C	98	42 80	Gouthro, Lillian E.,	100	29 12
Marcean Character	103	45 00	Ingraham, Grettie I.	103	30 00
Moragan Daniello V.	96	41 93	Jameson, Roberta	98	28 53
Wat St. Co-11	102	44 56	Johnston, Catherine	101	29 41
McLean, Rachel I. McLeod, Cecilia I. McLeod, Elizabeth	103	45 00	King, Alice B.	- ğ <u>ş</u>	28 82
Modeled Rossissering	98	42 80	Leonard, Dollie	100	29 12
Mariell, Anatherine	3	1 30	Macaulay, Katherine	100	29 12
McNeil, Annie L. MacPeil, Minnie A	98	42 80	MacCormick, Mary	103	30 00
MacNeil, Annie L. MacReil, Minnie A. MacRae, Alice M.	103	45 00	McDonald, Anna F.	88	25 62
MacRae, Alice M.	95	41 49	McDonald, John	88	25 62
			,, J &		
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M.D. II.M. AM		00.40	MacNellan Flames V	E 77	$22 \frac{13}{10}$
McDonald, Margaret M.	77 89	$\begin{array}{c cccc} 22 & 42 \\ 25 & 91 \end{array}$	MacMillan, Florence V. Townshend, Laura H.	57 89	34 56
MacDonald, Mary Macdonald, Mary S.	98	28 53	Townshelld, Laura II.	00	
MacDonald, Peter	103	30 00	Consolidated S	chools.	
MacDonald, Roland J.	60	17 47			$28 \frac{53}{55}$
Macdonald, Teresa B.	103	30 00	The Meadows, 1 D.	98	97 99
• MacGillivray, Mary A.	100	$\begin{array}{ccc} 29 & 12 \\ 2 & 91 \end{array}$	Ocean View, 1 D.	$\frac{96}{97}$	84 72
MacGillivray, Mildred F. MacGrigor, Minnie	$\begin{array}{c} 10 \\ 102 \end{array}$	$29 \ 70$	East Bay, 3 D.	91	•
MacInnes, Margaret M.	99	28 82	Annuitant	s.	
MacIsaac, K. Agatha	81	23 59			60 00
MacIsaac, Margaret	98	28 53	McDonald, Joseph		45 00
MacKay, Georgina M.	97	28 24	Garrett, Charles V.		45 UU
McKenzie, Theresa	103	30 00	McDougall, Philip		30 00
McKinnon, Martin W. MacKinnon, Sadie M.	$\begin{array}{c} 89 \\ 102 \end{array}$	$\begin{array}{c} 25 & 91 \\ 29 & 70 \end{array}$	McMillan, Fanny		•
MacLean, Myrtle L.	51	14 85	Assistant		- 00
McLellan, Mary	8	2 33	Fyfe, Honora	••	$23^{29}$
McNeil, Katie J.	103	30 00			**
MacNeill, Loretto	48	13 97	,	,	
Macneil, Vincent	92	26 79	COLCUEST	C D	• •
Madomer, Henrietta J.	$\begin{array}{c} 98 \\ 103 \end{array}$	$\begin{array}{c} 28 \ 53 \\ 30 \ 00 \end{array}$	COLCHEST	ck.	
Matheson, Sarah Mattatall, Florence	103	30 00	South.		. ۵۵.
Miller, Mary E.	68	19 79	Davis, D. G.	103	$105_{90}^{00}_{00}$
Munn, Ella	99	28 82	Archibald, G. G.,	103	ባለ ሀላ
Nicholson, Katie	90	26 21	England, H. E.	103	กก ยะ
Nickerson, Margaret	98	28 53	Hibbert, T. M.	103	ດດີທ່
Power, Elizabeth M. Rose, Janet F.	$\begin{array}{c} 101 \\ 20 \end{array}$	$\begin{array}{c} 29 & 41 \\ 5 & 82 \end{array}$	Osborne, N. A.	$\begin{array}{c} 103 \\ 103 \end{array}$	ባለ በላ
Ross, Margaret M.	103	30 00	Richardson, Euphemia Mosher, Amy	103	75 00 20 00
Sampson, Clara M.	39	11 35	Linton, Alice	103	$\frac{60}{59}  \frac{00}{41}$
Sampson, Clara M.	17	4 94	Baltzer, Nettie L.	102	ca uv
Sister Francis Paula	103	30 00	bradley, Annie E.	103	60 00
Sister M. Imelda	100	1 74	Brown, Bertha	103	e6 09
Sister St. Alexander C. Sister St. Ann	$\begin{array}{c} 103 \\ 98 \end{array}$	$\begin{array}{cc} 30 & 00 \\ 28 & 53 \end{array}$	Cossett, Ethel J.	103	″ ራሲ ነው
Sister St. Gregory	98	28 53	Creelman, Deane Dickson, Elsie	103 103	20 UV
Sister St. Mary	98			103	60 00 58 25
Slattery, Janet	81	28 53 23 59	Doyle, Mable	100	E (1 42
Smith, Christena	103		Elliot, Vera E	102	עון מא
Smith, Harvey R.	97 98	28 24	Fai:lkener, Ellen	103	60 UV
Smith, Mary A. Spencer, Mildred M.	103	28 53 30 00	Fulton, Beautice O. Fulton, Elsie L.	103	60 00
Spencer, Mildred M.	10	2 91		$\begin{array}{c} 103 \\ 103 \end{array}$	60 00
Sullivan, Kathryn	102	29 70	Lavers, Josephine Lawrence, Gladys	103	20 00
Walker, Sarah B.	102	27 90	Lockhart, Bessie	103	
Watt, Bridgie, G.	5 98	1 45	Logan, Margaret	78	
Wallace, Jean	90	28 53	Loughead, Mary E.	103	60 00
In Poor Sect	ions.		McDonald, Jean	103	60 00
			McIntosh, Agnes McKenzie, Agnes	$\begin{array}{c} 103 \\ 103 \end{array}$	
Brown, Sarah J.	38	14 77	Withennan Jannia	103	00 00
Crittenden, Edith A.	63	24 46	MICHELL Receie	103	00 00
Crowdis, Marjorie A.	$\begin{array}{c} 58 \\ 103 \end{array}$	22 52	MCNutt. Ressie	103	
Farrell, Hugh Gillis, Mary L.	74	$\frac{40}{28} \frac{00}{73}$	Parker, Gwendolyn	103	60 00
MacDonald, Mary	$\dot{99}$	38 45	Scothorne, Priscilla	$\begin{array}{c} 103 \\ 103 \end{array}$	60 0
McDougall, Catherine B.		38 45	Turner, Ida Waddell, Dorothy	103	Or AU
MacGillivray, Jessie	54	20 97	Wright, lessio	103	nu 🕰
MacGillivray, Jessie	20	7 77	Archibald, Janet	103	45 00 10 00
McInnis, Christena	68	<b>26 40</b>	Archidald, Minnio	25	45 00
MacKenzie, Ethel C.	92 ec	35 72	Archibald, Elsie	103	44 56 45 00
McLean, Christena, A.	86	33 39	Bates, Edwina	102	45 00
MacLellan, Mary A.	$\begin{array}{c} 84 \\ 73 \end{array}$	32 62	Brenton, Mable	103	45 00 44 00 45 00 45 00 45 00
McLeod, Catherine M. McLeod, Catherine M.	19	28 34 3 49	Caddell, Ottie C.	103 103	40
vicieou, Cathernie M.	·	0 40	Carter, Medora		

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Cox, Janet, R.	99	43 24	Sutherland Jennie,	4 /44	,, = ~
	103	45 00		102	44 56
Cooke, Mary L.	103	45 00	Clarke, Ella M.	103	30 00
	103	45 00	Cunningham, Laura	36	10 47
Davis, Mabel L.	103	45 00	Currie Marjorie,	92	26 79
Fulmore, Della M.	91	39 75	Forbes, Olive T.	103	30 00
Fulton, Mildred	87	37 99	Jollimore, Agnes	$\begin{array}{c} 103 \\ 84 \end{array}$	30 00
Higgins, Stella Meadows M	103	45 00	Mattatall, Violet E.	S5	24 46
Meadows, May Pearle	102	44 56	Murray, Bessie M.	103	$\begin{array}{c} 24 & 75 \\ 30 & 00 \end{array}$
McCleave, H. A.	99	43 24	MacKay, Janetta A.	96	$\frac{30}{27} \frac{00}{95}$
McCully, Laurel G.	98	42 80	McKay, Mary E.	98	28 53
McLearn, Gertrude E.	103	45 00	McKenzie, Nina J.	79	23 00
KOPONIA TAILLE INT.	103	45 00	McLanders, Minnie	103	30 00
Rose Don, Jennie A.	102	44 56	McLeod, Christina	103	30 00
Olithon Die L.	103	45 00	Nelson, Etta V.	95	27 66
That Tanu, Tessie C.	103	45 00	}		21 00
The , wasy	102	44 56	In Poor Sec	ctions.	
Whiding	103	45 00	ì		
Tirebit . ! Our totta	103	45 00	Chisholm, Stella	93	36 11
Orom	103	30 00	Langille, J. A.	89	34 56
טופאוייייייייייייייייייייייייייייייייייי	103	30 00	McIntosh, Lizzie	94	36 50
Chiat 31 Mula P.	68	19 79	McKay, Jean E.	$10\overline{2}$	39 61
trol 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	73	21 26	Putnam, Mabel	871	33 97
Cina S 2 *** CACHOTA	103	30 00			• • • •
illen P Saniila	98	28 53	West	t.	
Johns, Toxic IVI.	103	30 00	Davidson, Edna	103	60 00
	68	19 79	Lewis, Myrtle E.	103	60 00
Constaction D	• 98	28 53	Morse, Sylvia H.	103	60 00
wing, "Tryfue B.	97	28 24	Morse, E. P.	103	60 00
	103	30 00	Peppard, Ruth R.	103	60 00
	99	28 82	Smith, Margaret J.	57	33 19
	99	28 82	Archibald, Maynard	103	45 00
	100	29 12	Crowe, Elizabeth B.		45 00
Semple, Cecelia J. Shortt, Mary H. Spencer, Katheryn	87	25 33	Drysdale, Carrie M.	103	45 00
Spencer Wary H.	103	30 00	Drysdale, Janet R.	103	45 00
Spencer, Katheryn Wright, Bertha A.	102	29 70	Fulton, Sarah M.	103	45 00
Bertha A.	103	30 00	Kant M I	103	45 00
		j	Morash, Isabel	102	44 56
In Poor Sect	tions.	İ	Morrison, Ida M.	103	45 00
Matheson, Minnie Simpe, Sarah I	0.0	04.75	O'Brien, M. E.	103	45 00
Mason, Minnie Simpson, Mildred H	88	34 17	O'Connell, E. Grace	103	45 00
Simpson, Sarah J. Stevens, Mildred H. Leck Minerya	103	40 00	Robbins, Violet	102	44 56
Stevens, Mildred H. Leck, Minerva Philip Heloise	58	22 52	Simpson, Elsie	92	40 18
Phil. Alix Linerva	18	6 99	Treen, Lulu B.	103	45 00
Leck, Alix Holoise Philips, Grace Crockett, Minerva	$\frac{32}{3}$	12 62	Archibald, Annie F.	103	30 00
Crockett, Minnie McLey, Florence M	92	35 72	Carter, Hattie M.	103	$30 \ 00$
Harvey, Florence M. McLeod, Susie	84	32 62	Chisholm, Florence	163	<b>30</b> 00
McLeod, Susie M.	100 %	39 02	Flemming, Jenfa	99	$28 \ 82$
	102	39 61	Finlay, Ida May	103	30 00
Caikin, J. B. Annuitar		:	Fulton, Sylvia W.	103	30 00
Caikin, J. B Annuitar	nt.	*0" 00	Harrington, Lottie W.	73	21 26
		125 00	Huntley, Ida M.	103	, <b>30</b> 00
			Lockhart, Florence	94	27 37
Raid		ļ	Melvyn, Wilhelmina	103	<b>30</b> 00
Reid, Alice C. Stevens, Georgie Byer, Grace D			McLaughlin, Erma R.	86	<b>25</b> 04
Smith, Georgie Byers, Maggie I	$\frac{37}{27}$	21 54	McLellan, Ada Jean	103	30 00
Byach. Grace D	57	33 19	Patriquin, Edith M.	99	28 82
· Russ Magas	38	22 12	Smith, Alberta J.	103	30 00
Clear lange of	100	43 58	Urquhart, Nellie L.	103	<b>30</b> 00
Ferne, Agnes	103	45 00	Vance, Flora B.	103	<b>30 00</b>
Gray, Mary Ethel	103	45 00	Vance, Emma Maud	102	<b>29</b> 70
Gun, Mary Fthat	92	40 18		_	
Jan !! Mamia	103	45 00	In Poor Sect	ions.	
Marshie, A 34	103	45 00		٥.	63
Giay, Mary Ethel Lunn, Mamie McKay, Marion A. McLeod	85	37 12	Berry, Sadie	84	32 62
McKay, Marion A. McLeod, Jessie A.	103	45 00	Mills, Nellie	89	34 56
	103	45 00	McCully, Iola Emma	103	40 00
	700	40 00	meetily, Itia Emilia	100	40 00

CUMBERLA	ND		MacCurdy Irona	103
COMBERLA	MD.		MacCurdy, Irene MacIntosh, Laura	103
Lay, E. J.	97	98 86	Maclyor Ethal	$\frac{103}{97}$
Morehouse, F. G.	98	99 87 84 73 75 00 84 73 85 60	MacLeod, Georgina	94
Smith, Lizzie	$\frac{36}{97}$	84 73	MacPhee, Teressa	98
Caldwell, Lewis H.	103	75.00	MacPherson, Leona	98
Evans, Laura	91	84 73	Miller, Agnes M.	103
MacPhee, Annie R.	98	85 60	Moreash, Georgina	103
Atkinson, Florence	961	56 10	Nowlan, Bessie A.	103
Bent, Evelyn	98	$57 \ 07$	O'Brien, Agnes	101
Blanche, Julia	97	56 49	O'Brien, Fannie	98.
Brannen, W. E.	103	60 00	Ripley, Ada	103
Brown, Delia	103	00 00	Ripley, Jennie	86
Brown, Ellen C.	103	60 00	Roach, Bessie	103
Campbell, Helen	97	56 49	Roach, Lena	15
Carter, Lillian	97	56 49	Shipley, Ethel	103
Chandler, Isabella	98	57 07	Slade, Almera F.	103
Chapman, Myra	97	56 49	Snowdon, Gladys	98
Charman, Mary E.	77	44 84	Sproule, Kathleen	103
Corkum, Inez B.	103	60 00		102
Crawford, R. D.	95	<b>55</b> 33	Tabor, Clara	98
Glennie, Emma	97	56 49	Taylor, Arabella	103
Gunn, Helen C.	103	60 00	Tuttle, Ada G.	83
Harrison, Kate	97	56 49	Travis, Agnes	97
Hennigar, Mabel	88	51 24	Watt, Daisey	98
Johnson, Laura	102	59 41	Weathered, Emma B.	103
Landells, Ermina	20	11 64	Anderson, H. Percy	10
Lightbody, Edna J.	83	48 34	Austin, Florence	102
Marston, Hazel	97	56 49	Bailey, Maud	103
MacDonald, Hilda	103	60 00	Baillie, Mary J.	101
MacDonald, Viola	98	57 07	Beaton, Margaret	103
MacDonald, Ethel	98	57 07	Beattie, Jane	103
MacLean, Viola B.	102	59 41	Bird, Retta L.	103
MacLean, Pearle	97	56 49	Bird, Elsie	49
Mitchell, Jennie M.	84	48 92	Bleakhorn, Florence R.	89
O'Brien, Bertha	98	57 07	Brander, Edith, R.	79
O'Brien, Della	98	57 07	Brenton, Florence R.	103
Pugsley, Chester	20	11 64	Brownell, Louise V.	103
Reade, Elizabeth	97	56 49	Brownell, Viola E.	47
Russel, Jean	98	57 07	Brownell, Myrtle	103
Sinclair, Willena Sproule, Lottie	97	56 49	Brownell, Gertrude	103
Sproule, Lottie	97	56 49	Cameron, Jennie	101
Trerice, Mary	95	00 00	Cameron, Ella M.	76
Watt, Beatrice	98	57 07	Campbell, Lulu	103
Webb, Hattie	$\begin{array}{c} 97 \\ 97 \end{array}$	56 49	Campbell, Anna	60
Wylde, Sara W.		56 49	Carter, Elverina L.	89
Archibald, Minnie	$\begin{array}{c} 83 \\ 103 \end{array}$	36 25	Christie, Stella	103
Baird, Jean F.	103	45 00	Coulter Annie M	88
Benjamin, May L.	102	45 00	Crossman, Irene	103
Blaikie, Heloise M. Butler, Mary E.	97	44 56	Crawley, Teresa	74
Cameron, Annie	103	42 37	Crossman, Irene Crawley, Teresa Deuch, Susie	102
Cameron, Emily W.	103	45 00	~cwal. Plorence	88
Campbell, Margaret A.	102	45 00	DICKINSON Carrie F	103
Clarke Elizaboth	103	44 56	Eugett, Minnie	103
Clarke, Elizabeth	97	45 00	rage, Lottie	102
Craig, Muriel E.	$\frac{31}{97}$	42 37	Farrell, Annia	$96\frac{1}{2}$
Creelman, Jean	78	42 37	Pullerton, Tanie	10
Davis, Retta I.		34 06	Chiray, Ethel	81
Fillmore, Bessie M.	98	42 80	Gordon, B. Gaynetle	103
Fraser, Ida J.	103	45 00	Cordon, Hattie M	103
Gallager, Adelaide I.	101	44 12	Granam, Agnes	103
Hennesey Elva	103	45 00	Gray, Edna A	101
Hennigar, Mina	89	38 87	Harpell, Annie B	99
Jeffers, Myrtle	102	44 56	mayward, Inez	103
Jennison, Mary	98	42 80	Hickey, Lizzie E.	103
Matheson, Mary	98	42 80	Hills, Mary S.	10
MacCullum, Alberta M.	103	45 00	Hunter, Winnifred P.	100₺

Johnson, Pearle Kelley, Vera					
Kall Tri Learle	103	30 00	Atkinson, Ruby	103	<b>co</b> 00
Kelley, Vera		30 00	Barnes, Grace A.	103	60 00
Lawson, Edith M. Leslie, Everett C.	103 97	30 00	Fraser, Stanley A.	79	60 00 46 01
Leslie, Everett C.	97	28 24	Galager, Violet L.	$\begin{array}{c} 79 \\ 103 \end{array}$	60 00
Lorrisay, Susie	97	28 24	Hiltz, Adelaide	1013	59 12
Ynch C Wilnie	$41\frac{1}{2}$	12 09	1 Lavers, Winnifred G. M.	I. $103^{\circ}$	60 00
Mela", a wendolene	102	29 70	Leitch, Holly A.	103	60 00
Mach Lena G.	103	$30 \ 00$	MacCleave, R. D.	102	59 41
MacD Maid, Annie	98 1 98	28 53	MacQuarrie, Sadie	103	60 00
Mach Elizabeth		28 53	O'Mullon, Mary F.	103	60 00
WIAND	100	30 00	O'Regan, Nellie	103	60 00
MacIntosh, Lulu M. MacIvor, Frances	103	30 00	Smith, Gladys M.	103	60 00
Will mill mill	101	29 41	Smith, Ada H.	103	60 00
Wianty L. Tattices	102	29 70	Watton, Lillian G.	103	<b>60</b> 00
MacLean, Annie J. MacNab, Kata F	$\begin{array}{c} 103 \\ 94 \end{array}$	$\frac{30}{97} \frac{00}{97}$	Challen, Minnie	102	44 56
MacNab, Kate E.	103	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Elllis, Nina M.	103	45 00
MacSavaney, Annie Marsh, Edith	98	28 53	Kerr, Minnie G.	79	34 50
Marsh, Edith	931	$\frac{26}{27} \frac{33}{23}$	MacIntosh, Jessie B.	99	43 24
Will, 7, 18a Del	$103^{\circ}$	30 00	O'Connell, Irene Patterson, Florence	100	43 68
Miller, Lillian (G. Milner, Mildred Mort, Effie T	971	28 39	Trevice, Ruth	$\begin{array}{c} 101 \\ 98 \end{array}$	44 12
410mt =====1011 C(1	45	13 10	Ward, Cora B.	103	42 80 45 00
Willes T.	103	30 00	Barteaux, Florence J.	80	25 91
Woll Trexie	98	28 53	Barteaux, Florence J. Callow, Margaret G. Fullerton, Sydney B.	$\frac{89}{84}$ ,	$\frac{25}{24} \frac{31}{46}$
O R	79	$\frac{1}{23} \frac{1}{00}$	Fullerton, Sydney B	103	30 00
	103	30 00	Gibson, Ada B.	$102 \\ 102$	29 70
	103	30 00	Hillgrove, Sadie G.	83	24 17
	102	29 70	Kewer, Jessie	$8\widetilde{2}$	$\frac{1}{23} \frac{1}{88}$
	98	28 53	Knowlton, Rose	103	30 00
Pettygrew, Ellen Reidy, Amy C	87	25 33	Larrimer, Minnie		$5 \ 52$
Purdy, Amy C. Rin, Ida M	103	30 00	Quinn, Dora M.	19 94	27 37
	103	30 00	Robinson, Alice A.	102	<b>29</b> 70
Rolley, Milder	102	29 70	Salter, Josephine Salter, Vivien	103	30 00
Ripley, Mildred Roberts, Minnie Ryan, Beulah	103	30 00	Salter, Vivien	79	23 00
	103	30 00	Thompson, Flora	102	29 70
Shipley, Jessie Simpson, Mystel	101	29 41	I D 6	. •	
	$\frac{103}{74}$	30 00' 21 55	In Poor Sec	tions.	
Spreed Bessie M	$\begin{array}{c} 74 \\ 85 \begin{array}{c} 1 \\ 2 \end{array}$	24 90	Graham, Iva M.	103	40 00
	1002	29 70	Morris, Ruby	103	40 00
Steven, Florence A	102				
Tagenson, Dore	102 98			92	
Taggart, Library	98	28 53	Weatherby, Hattie	92	35 72
Taggart, Liby M.	$\begin{array}{c} 98 \\ 103 \end{array}$	$\begin{bmatrix} 28 & 53 \\ 30 & 00 \end{bmatrix}$	Weatherby, Hattie		35 72
Taggart, Liby M. Teed, Ruby E	$^{98}_{103}$	28 53 30 00 27 95			35 72
Taggart, Liby M. Tagt, Sadie O. Thompson Mall	98 103 96 87	28 53 30 00 27 95 25 33	Weatherby, Hattie  In Special Poor	Section	35 72
Taggart, Liby M. Tag, Sadie O. Thompson, Mable	98 103 96 87	28 53 30 00 27 95 25 33 25 33	Weatherby, Hattie	Section	35 72
Taggart, Liby M. Teed, Ruby E. Thompson, Mable Van Buskirk	98 103 96 87	28 53 30 00 27 95 25 33 25 33 23 00 30 00	In Special Poor Lunn, Cora B.  Consolidation	Section 87	35 72
Taggart, Liby M. Teed, Ruby E. Thompson, Mable Van Buskirk	98 103 96 87	28 53 30 00 27 95 25 33 25 33 23 00	In Special Poor Lunn, Cora B.  Consolidation	Section 87	35 72
Taggart, Liby M. Teed, Ruby E. Thompson, Mable Van Buskirk	98 103 96 87	28 53 30 00 27 95 25 33 25 33 23 00 30 00	In Special Poor Lunn, Cora B.  Consolidation	Section 87 Grant.	35 72  33 78
Taggart, Liby M. Taggart, Liby M. Teed, Ruby E. Thompson, Mable VanBuskirk, Marjorie Wood, Willo	98 103 96 87 87 79 103 89	28 53 30 00 27 95 25 33 25 33 23 00 30 00 25 91	Weatherby, Hattie  In Special Poor  Lunn, Cora B.  Consolidation	Section 87	35 72
Taggart, Liby M. Taggart, Liby M. Teed, Ruby E. Thompson, Mable VanBuskirk, Marjorie Wood, Willo Wood, Walter  In Poor Se	98 103 96 87 87 79 103 89	28 53 30 00 27 95 25 33 25 33 23 00 30 00 25 91	Weatherby, Hattie  In Special Poor Lunn, Cora B.  Consolidation Spencer's Island	Section 87 Grant.	35 72  33 78 30 09
Taggart, Liby M. Taggart, Liby M. Teet, Sadie O. Thon, Ruby E. Thompson, Mable Van Buskirk, Marjorie Wood, Willo Wood, Walter  In Poor Se Beebe, May S	98 103 96 87 87 79 103 89 77	28 53 30 00 27 95 25 33 25 33 23 00 30 00 25 91 22 42	Weatherby, Hattie  In Special Poor Lunn, Cora B.  Consolidation Spencer's Island	Section 87 Grant. 103 103	35 72  33 78 30 09
Taggart, Liby M. Taggart, Liby M. Ted, Sadie O. Thompson, Mable VanBuskirk, Marjorie Wood, Willo Wood, Willo In Poor Se Beebe, May S. Candage To	98 103 96 87 87 79 103 89 77 ctions.	28 53 30 00 27 95 25 33 25 33 23 00 25 91 22 42	In Special Poor Lunn, Cora B.  Consolidation Spencer's Island Advocate  Annuitan	Section 87 Grant. 103 103	35 72  33 78 30 00 30 00
Taggart, Liby M. Taggart, Liby M. Ted, Ruby E. Thompson, Mable Van Buskirk, Marjorie Wood, Willo Wood, Willo In Poor Se Beebe, May S. Canning, Minne	98 103 96 87 87 79 103 89 77 ctions.	28 53 30 00 27 95 25 33 25 33 23 00 25 91 22 42 39 61 32 62	Meatherby, Hattie  In Special Poor  Lunn, Cora B.  Consolidation  Spencer's Island Advocate	Section 87 Grant. 103 103	35 72  33 78 30 09
Taggart, Liby M. Taggart, Liby M. Teed, Ruby E. Thompson, Mable Tupper, Juanita Wood, Willo Wood, Willo Wood, Walter  In Poor Se Beebe, May S. Cannage, Teressa Jeffers, Missing	98 103 96 87 87 79 103 89 77 ctions.	28 53 30 00 27 95 25 33 25 33 23 00 30 00 25 91 22 42 39 61 32 62 40 00	In Special Poor Lunn, Cora B.  Consolidation Spencer's Island Advocate  Annuitan	Section 87 Grant. 103 103	35 72  33 78 30 00 30 00
Taggart, Liby M. Taggart, Liby M. Teed, Ruby E. Thompson, Mable Tupper, Juanita VanBuskirk, Marjorie Wood, Willo Wood, Walter  In Poor Se Beebe, May S. Canning, Minnie Johns, Gussie, M.	$98$ $103$ $96$ $87$ $87$ $79$ $103$ $89$ $77$ <b>ctions.</b> $102$ $84$ $103$ $102\frac{1}{2}$	28 53 30 00 27 95 25 33 25 33 23 00 30 00 25 91 22 42 39 61 32 62 40 00 39 80	In Special Poor Lunn, Cora B.  Consolidation Spencer's Island Advocate  Annuitan	Section 87 Grant. 103 103	35 72  33 78 30 00 30 00
Taggart, Liby M. Taggart, Liby M. Taggart, Liby M. Teed, Ruby E. Thompson, Mable Van Buskirk, Marjorie Wood, Willo Wood, Willo Wood, Walter  In Poor Se Beebe, May S. Brundage, Teressa Jeffers, Gussie, M. Macpherson, Lizzie Macpherson	$98$ $103$ $96$ $87$ $87$ $79$ $103$ $89$ $77$ ctions. $102$ $84$ $103$ $102\frac{1}{2}$ $60$	28 53 30 00 27 95 25 33 25 33 23 00 30 00 25 91 22 42 39 61 32 62 40 00 39 80 23 30	Meatherby, Hattie  In Special Poor Lunn, Cora B.  Consolidation Spencer's Island Advocate  Annuitan Charman, Eliza G.	Section 87 Grant. 103 103	35 72  33 78 30 00 30 00
Taggart, Liby M. Taggart, Liby M. Taggart, Liby M. Ted, Sadie O. Thompson, Mable Tupper, Juanita Wood, Willo Wood, Willo Wood, Willo In Poor Se Beebe, May S. Canning, Minnie Jeffers, Gussie, M. MacPherson, Edna Salter, Jane	$98$ $103$ $96$ $87$ $87$ $79$ $103$ $89$ $77$ <b>ctions.</b> $102$ $84$ $103$ $102\frac{1}{2}$ $60$ $67$	28 53 30 00 27 95 25 33 25 33 23 00 25 91 22 42 39 61 32 62 40 00 39 80 23 30 26 01	In Special Poor Lunn, Cora B.  Consolidation Spencer's Island Advocate  Annuitan	Section 87 Grant. 103 103	35 72  33 78 30 00 30 00
Taggart, Liby M. Taggart, Liby M. Taggart, Liby M. Teed, Ruby E. Thompson, Mable VanBuskirk, Marjorie Wood, Willo Wood, Willo Wood, Walter  In Poor Se Beebe, May S. Canning, Minnie Jeffers, Gussie, M. MacPherson, Edna Salter, 12 m.	$98$ $103$ $96$ $87$ $87$ $79$ $103$ $89$ $77$ <b>ctions.</b> $102$ $84$ $103$ $102\frac{1}{2}$ $60$ $67$ $43$	28 53 30 00 27 95 25 33 25 33 23 00 30 00 25 91 22 42 39 61 32 62 40 00 39 80 23 30 26 01 16 70	Weatherby, Hattie  In Special Poor Lunn, Cora B.  Consolidation Spencer's Island Advocate  Annuitan Charman, Eliza G.  DIGBY	Section 87 Grant. 103 103	35 72  33 78 30 00 30 00 45 00
Taggart, Liby M. Taggart, Liby M. Taggart, Liby M. Ted, Sadie O. Thompson, Mable Tupper, Juanita Wood, Willo Wood, Willo Wood, Willo In Poor Se Beebe, May S. Canning, Minnie Jeffers, Gussie, M. MacPherson, Edna Salter, Jane	$98$ $103$ $96$ $87$ $87$ $79$ $103$ $89$ $77$ <b>ctions.</b> $102$ $84$ $103$ $102\frac{1}{2}$ $60$ $67$ $43$ $87$	28 53 30 00 27 95 25 33 25 33 23 00 30 00 25 91 22 42 39 61 32 62 40 00 39 80 23 30 26 01 16 70 33 78	Weatherby, Hattie  In Special Poor Lunn, Cora B.  Consolidation Spencer's Island Advocate  Annuitan Charman, Eliza G.  DIGBY Patterson, Mabel G.	Section 87 Grant. 103 103 t. 101	35 72 33 78 30 00 30 00 45 00 •
Taggart, Liby M. Taggart, Liby M. Taggart, Liby M. Teed, Ruby E. Thompson, Mable Tupper, Juanita Wood, Willo Wood, Willo Wood, Willo Wood, Walter  In Poor Se Beebe, May S. Grundage, Teressa Jeffers, Gussie, M. Johnson, Lizzie MacPherson, Edna Salter, Laura A. Smith, Mainie Ward, Nema C.	$98$ $103$ $96$ $87$ $87$ $79$ $103$ $89$ $77$ <b>ctions.</b> $102$ $84$ $103$ $102\frac{1}{2}$ $60$ $67$ $43$ $87$ $79$	28 53 30 00 27 95 25 33 25 33 23 00 30 00 25 91 22 42 39 61 32 62 40 00 39 80 23 30 26 01 16 70	Weatherby, Hattie  In Special Poor Lunn, Cora B.  Consolidation Spencer's Island Advocate  Annuitan Charman, Eliza G.  DIGBY Patterson, Mabel G. Baker, Grace V.	Section 87 Grant. 103 103 t. 101	35 72 33 78 30 00 30 00 45 00 • 90 00 60 00
Taggart, Liby M. Taggart, Liby M. Tait, Sadie O. Thompson, Mable Tupper, Juanita Wood, Willo Wood, Willo Wood, Walter  In Poor Se Beebe, May S. Brundage, Teressa Jeffers, Gussie, M. Johnson, Lizzie MacPherson, Edna Salter, Laura A. Ward, Nema C.	$98$ $103$ $96$ $87$ $87$ $79$ $103$ $89$ $77$ <b>ctions.</b> $102$ $84$ $103$ $102\frac{1}{2}$ $60$ $67$ $43$ $87$ $79$	28 53 30 00 27 95 25 33 25 33 23 00 30 00 25 91 22 42 39 61 32 62 40 00 39 80 23 30 26 01 16 70 33 78	In Special Poor Lunn, Cora B.  Consolidation Spencer's Island Advocate  Annuitan Charman, Eliza G.  DIGBY Patterson, Mabel G. Baker, Grace V. Belliveau, Catherine	Section 87 Grant. 103 103 t	35 72 33 78 30 00 30 00 45 00 
Taggart, Liby M. Taggart, Liby M. Taggart, Liby M. Teed, Ruby E. Thompson, Mable VanBuskirk, Marjorie Wood, Willo Wood, Willo Wood, Walter  In Poor Se Beebe, May S. Canning, Minnie Jeffers, Gussie, M. MacPherson, Edna Smith, Mainie Ward, Nema C.  Parrsbo	$98$ $103$ $96$ $87$ $87$ $79$ $103$ $89$ $77$ <b>ctions.</b> $102$ $84$ $103$ $102\frac{1}{2}$ $60$ $67$ $43$ $87$ $79$	28 53 30 00 27 95 25 33 25 33 23 00 30 00 25 91 22 42 39 61 32 62 40 00 39 80 23 30 26 01 16 70 33 78	In Special Poor Lunn, Cora B.  Consolidation Spencer's Island Advocate  Annuitan Charman, Eliza G.  DIGBY Patterson, Mabel G. Baker, Grace V. Belliveau, Catherine Belliveau, Marie Ann	Section 87 Grant. 103 103 t	35 72 33 78 30 00 30 00 45 00 45 00 60 00 60 00 60 00 60 00
Taggart, Liby M. Taggart, Liby M. Taggart, Liby M. Teed, Ruby E. Thompson, Mable VanBuskirk, Marjorie Wood, Willo Wood, Willo Wood, Walter  In Poor Se Beebe, May S. Canning, Minnie Jeffers, Gussie, M. MacPherson, Edna Smith, Mainie Ward, Nema C.  Parrsbo	$98$ $103$ $96$ $87$ $87$ $79$ $103$ $89$ $77$ <b>ctions.</b> $102$ $84$ $103$ $102\frac{1}{2}$ $60$ $67$ $43$ $87$ $79$	28 53 30 00 27 95 25 33 25 33 23 00 30 00 25 91 22 42 39 61 32 62 40 00 39 80 23 30 26 01 16 70 33 78 30 58	In Special Poor Lunn, Cora B. Consolidation Spencer's Island Advocate Annuitan Charman, Eliza G.  DIGBY Patterson, Mabel G. Baker, Grace V. Belliveau, Catherine Belliveau, Marie Ann Churchill, Gordon H.	Section 87 Grant. 103 103 t	35 72 33 78 30 00 30 00 45 00 45 00 60 00 60 00 60 00 60 00 60 00 60 00
Taggart, Liby M. Taggart, Liby M. Taggart, Liby M. Teed, Ruby E. Thompson, Mable VanBuskirk, Marjorie Wood, Willo Wood, Willo Wood, Walter  In Poor Se Beebe, May S. Canning, Minnie Jeffers, Gussie, M. MacPherson, Edna Smith, Mainie Ward, Nema C.  Parrsbo	98 103 96 87 87 79 103 89 77 ctions. 102 84 103 102½ 60 67 43 87 79	28 53 30 00 27 95 25 33 25 33 23 00 30 00 25 91 22 42 39 61 32 62 40 00 39 80 23 30 26 01 16 70 33 78	In Special Poor Lunn, Cora B. Consolidation Spencer's Island Advocate Annuitan Charman, Eliza G.  DIGBY Patterson, Mabel G. Baker, Grace V. Belliveau, Catherine Belliveau, Marie Ann Churchill, Gordon H. Chute, Hettie M.	Section 87 Grant. 103 103 t	35 72 33 78 30 00 30 00 45 00 45 00 60 00 60 00 60 00 60 00
Taggart, Liby M. Taggart, Liby M. Tait, Sadie O. Thompson, Mable Tupper, Juanita Wood, Willo Wood, Willo Wood, Walter  In Poor Se Beebe, May S. Brundage, Teressa Jeffers, Gussie, M. Johnson, Lizzie MacPherson, Edna Salter, Laura A. Ward, Nema C.	98 103 96 87 87 79 103 89 77 ctions. 102 84 103 102½ 60 67 43 87 79	28 53 30 00 27 95 25 33 25 33 23 00 30 00 25 91 22 42 39 61 32 62 40 00 39 80 23 30 26 01 16 70 33 78 30 58	In Special Poor Lunn, Cora B. Consolidation Spencer's Island Advocate Annuitan Charman, Eliza G.  DIGBY Patterson, Mabel G. Baker, Grace V. Belliveau, Catherine Belliveau, Marie Ann Churchill, Gordon H.	Section 87 Grant. 103 103 t	35 72 33 78 30 00 30 00 45 00 45 00 60 00 60 00 60 00 60 00 60 00 60 00

Hainey, Annie M.	103	60 00	Harris Hazal C	89	25 91
Hayford, Albert C.	103	60 00	Harris, Hazel G. Harris, Lucy E.	103	30:00
Hicks, Blanche G.	83	48 34		103	5 23
Hines, Bertha M.	103	60 00	Hersey, Laura B. Hiltz, Livian M.	101	29 41
Hogg, Nathaniel W.	103	90 00	*Holmes, Margaret E.	84	22: 62
Lent, Nellie Irene	103	60 00	*Jones, M. Eleanor	89	24 50
Longley, Reginald A.	103	60 00	Lambertson, Pearl E.	103	20 OV
Melancon, Frank E.	102	59 41	Lane, Evangeline	103	20 00
Messinger, M. Alexes	102	59 41	LeBlanc, Madeline	103	20 OV
Morse, Ethel E.	103	60 00		$\frac{103}{97}$	98 Z4
Payson, H. Franklyn	103	60 00	LeBlanc, Marie A. LeBlanc, Symphorien	103	จก ฃฃ
Ring, Viva M.	103	60 00	*Lewis, Jessie M.	$\frac{103}{71}$	97 51
Sister Baptista Maria	94	54 74	*Lewis, Minnie O.	103	40 DU
Sister M. Amabilis	18	10 47		79	იი ჩმ
Sister M. Cicile	103	60 00	*Lombard, M. Ellen McKay, Nettie J.	89	05 91
Sister M. Madeline	103	60 00	Melancon, Nellie M.	103	ฐก บ∪
Sister M. Norbert	103	60 00		103	30 00
Turnbull, Bessie B.	103	60 00	Mullen, Annie L. *Outhouse, Hattie I.	79	90 D0
Wolfe, Hattie F.	103	60 00	Prime, Lenetta		20 UU
Belliveau, Antoinette	103	45 00	Robichaud Evolina	103	29 00
Bourneuf, M. Emma	103	$\begin{array}{c} 45 & 00 \\ 45 & 00 \end{array}$	Robichaud, Eveline	$101\frac{1}{2}$	อก เห
Churchill, Allie M.	103 103	$\begin{array}{c} 45 & 00 \\ 45 & 00 \end{array}$	Kobicheau, Loretta M.	103	34 50
Comeau, M. Eugenie	103	$\begin{array}{c} 45 & 00 \\ 45 & 00 \end{array}$	*Sabine, Ethel R.	$\begin{array}{c} 89 \\ 103 \end{array}$	อก ยบ
Comeau, M. Aimee	103		Savary, Laura B.		of 39
Doucet, M. Adele	101	45 00	*Scott, John D.	91	ፈስ መ
Doucet, Joseph P.	103	$\begin{array}{cccc} 44 & 12 \\ 45 & 00 \end{array}$	*Seeley, Janet M.	103	30 UV
Doucet, M. Elizabeth	64	27 95	Simpson, Esther M.	103	രളില
Dugas, Aggie	103	45 00	Snow, Lennie M.	98	คด ยง
Foster, L. Winnifred	94	41 06	Suthern, Lois B. Taylor, Sophia M.	103	00 14
Gagnon, Alfred G.	103	45 00	Theriault Samahada	100	ดก แบ
Gibbons, Grace L.	103	45 00	Theriault, Symphorien Thurber, Bessie G.	103	คก บง
Harris, Nellie M.	103	45 00	Trevoy, Nellie M.	103	AU NU
Hebb, Leda M.	102	44 56	Van Tassel, Bertha S.	98	
Kinney, Rowena J.	102	44 56	Welsh, Myrtle L.	103	06.32
LeBlanc, Sarah	103	45 00	Wentzell, Harriet I.	89	
Letteney, Edith P.	79	34 50	*Westcott, Annie P.	86	
Longmire, Rosa T.	103	45 00	Woodman Clara P	89	25 91
Melancon, Rose A.	103	45 00	Woodman, Clara R.	89	40 00
Mussells, Dora R.	23	10 03	*Young, Ermina V.	103	-
Nickerson, Nettie M.	103	45 00	A		
Robichaud, Marie M.	102	44 56	Annuitant	8.	40
Sister M. Anthony	103	45 00	Goodwin Emma M		45 00
Sister M. Elise	83	36 25	Goodwin, Emma M. Ursula, Sister M.		45 UV
Sister M. Modesta	103	45 00	Hill, Dorcas A.		an iiv
Taylor, Addie D.	103	45 00	Smallie, Mary I.		30 00
Thimot, M. Elina	103	45 00	omarie, Mary I.		
Trask, Lizzie B.	103	45 00	ı		
Walsh, Grace B.	103	45 00			
Blackford, Lillie D.	103	30 00	GUYSBOR		
Blin, Julian E.	64	18 63	GUISBUR	CO.	۵۵ ـ
Brooks, Maud D.	93	27 08	Rudolph, A. Mary	103	$105_{60}^{00}$
Caldwell, Lola I.	103	30 00	Cossitt, Otto		60 00
*Comeau, Cordelia R.	103	40 00	Evans, Mary L.	$\begin{array}{c} 103 \\ 103 \end{array}$	60 00
Comeau, Eva	103	30 00	Getson, Grace A.	400	60 00
Comeau, Marie Ann	103	30 00	Giffin, Amy Clare	103	57 07
*Comeau, Marie Rose	103	40 00	Hurst, Blanche	$\begin{array}{c} 98 \\ 103 \end{array}$	60 00
Comeau, Nellie M.	89	25 91	Hadley, Agatha A.		60 00
Deveau, Ann Lea	98	28 53	Kavanagh, Florence E.	103	00.00
Deveau, Louise	103	30 00	Lawrence, Abbie B.	103 .99	יט אויט
*Doty, Floris G.	103	40 00	McGuire, Nita	103	OF ALL
Doty, Lytha M.	103	30 00	McGillivray, Amelia		UV A/I
Frost, Laura E.	93	27 08	McIsaac, Margaret	103	60 00
Godfrey, Maggie E.	103	30 00	McLean, Jessie	103 98	57 t07
*Goreham, Nettie A.	103	40 00	Oxley, Gertrude O.		60 00
*Greene, Gertrude F.	79	30 58	Troop, Alice M.	$\begin{array}{c} 103 \\ 103 \end{array}$	UV 40
Harris, Ada S.	103	30 00	Blois, Josephine C.	96	41 00
*Harris, Gladys M.	99	38 45	Cox, Josephine C.	103	45 00
Training Charles and		~ 40°	cox, Josephine	100	

Ferguson, Ruth R.	103	45 00	Corneally, Lottie G.	94	41.00
Ferguson, Ruth R. Henneser, L.	103	45 00	Chisholm, Ethel M	102	41 06 44 56
Hennesey, Eva Howard Burt W	100	45 00	Dickson, Margaret	97	42 37
Howard, Ruth W.	103	45 00	Fisher, Sarah E.	103	45 00
Kennedy, Annie M. Mason, Erme F.	103	45 00	Hartling, Nettie J.	96	45 00
Mason, Erma F.	$103 \\ 103 \\ 103$	45 00	Jordan, Catherine J.	103	45 00
Mattatall, Daisy McIntosh Manager	103	• 45 00	Kirk, Gertrude B.	102	44 56
McIntosh, Margaret Nicolle, Everett I	56	$\frac{1}{24}$ $\frac{4}{45}$	Macdonald, M. Lilian	103	45 00
Nicolle, Everett J.	103	45 00	McNaughton, Dan P.	15	6 54
Ross, May E	103	45 00	Pye, Hannah	5	2 18
Ross, May E.	103	45 00	Stevens, Maud	103	
Sampson, Annie E.		45 00	Ashton, Maud E.	98	45 00
Boudreau Evangeline E Hartt, Carrio M	103	30 00	Boyd, Elfreda		28 53
Hartt, Carrie M. Holloran Mari E	83	$\frac{30}{24} \frac{00}{17}$		98 99	28 53
Hollogan, Mary E. Halfpenny, Vivo E	103	30 00	Crowley, Estella	100	28 82
Halfpenny, Viva E. Josey, Izetta P.		16 59	Fenton, Annie M.	103 102	30 00
losey, Izetta B.	57 83	$\frac{10}{24} \frac{03}{17}$	Hartling, Minnie		29 70
	100	30 00	Manson, Agnes K.	103	30 00
Kennedy, Lena C.	103 103 103	30 00		82	23 88
Kennedy, Lena C. Kelly, Theresa M.	103			13	3 78
Kelly, Mary	103	30 00		60	17 47
40UY:		30 00	Wilson, Hannah F.	14	4 07
Morgan, Katie L. Murphy, Appie ()	89 96	25 91		. •	
Murphy, Annie (). Meagher, Stella M	20	27 95	In Poor Sec	tions.	
Meagher Stolle M	103	30 00	T) 11 37 7 6		
Wines y will the IVI.	102	29 70	Barkhouse, Mary J. A.	23	8 94
Maca , wanter D.	103	30 00	Crooks, Hilda G.	88	34 17
Wand with Wally C.	103	30 00	Cameron, Flora E. M.	89	34 56
41017 144 CEL V 1VI.	80	23 30	Chisholm, Jessie M.	77	29 90
MICE COMMITTALLY 21.	98	28 53	Crittenden, Ida M.	84	32 62
	100	29 12			
	87	<b>25</b> 33	1		
onani "", Cyntnia	103	30 00			
offall will G.	79	23 00	HALIFAX C	ITY.	
oum, ' walv II.	103	30 00			
	$\begin{array}{c} 44 \\ 85 \end{array}$	12 81	McKay, A.	103	105 00
Tate, Edna M. Worth, Iosia I.	85	24 75	Morton, S. A.	97	84 73
Worth, Iosie L.	103 103 103 103	30 00	Logan, J. W.	97	84 73
	103	30 00	Mackintosh, K.	98	85 60
Worth, Aprilon S.	103	30 00	Trefry, J. H.	98	85 60
Worth, Marion S. Wells, Clara P.	103	30 00	Bancroft, G. R.	98	57 07
relata P.	102	29 70	Peters, F. A.	98	57 07
			Bigney, E. M.	97	56 49
In Poor Sect	tions.		MacDonald, E. M.	98	42 80
Brown, Sadie M. Hartling, Eva C			Agnes, Sr. R.	103	60 00
Hartling, Eva C. Hurst, Clara C.	70	27 18	Bayer, H. M.	103	<b>75</b> 00
Hurst, Clara C. Jenkins, Cecella II	101	39 22	Blois, H. H.	103	90 00
	98	38 06	Boyd, D. D.	103	75 00
attle poccessar.	89	34 56	Brunt, H. D.	103	90 00
Leary, Florence M. McGy, Florence M. McKenzie, Gertrude J. O'Connor Lawrence M.	103 81	40 00	Butler, G. K.	103	90 00
	81	31 45	Cummings, E.	$\overline{103}$	75 00
McKenzie, Gertrude J. O'Connor Lawrence M.	103	40 00	Evaristus, Sr.	98	85 60
Connor Lawrence M.	98	38 06	Fitzgerald, Mme.	103	60 00
	89	34 56	Huggins G. M.	103	75 00
panks Mary E.	20	7 77	Marshall G. R.	103	90 00
panks, Elora J.	103	40 00	Matheson D. J.	98	71 32
			Murray E.	103	75 00
Special Poor Se	ections.	· ·	O'Hearn P.	98	85 60
akedale		}	Rosaire, Sr.	103	60 00
		30 00	Agnes, Sr. M.	103	60 00
Annuitar	ıt.	90 00	Agnita, Sr.	103	60 00
Jannifen, Maggie			Allen, M. E.	79	46 02
Maggie		30 00	Archibald, S. M.	103	60 00
		00 00	Berchmane S-	103	60 00
St. Mary	,		Berchmans, Sr.		60 00
3P1.			Blakeney, B. H. V.	103	60 00
McLeod, Grate V.	101	50 99	Bowden, I. M.	103	60 0Q
McLeod, Greta L.	61	58 83 35 53	Bowden, L. J.	103	60 00
	O.T.	י פט טט י	Brims, M. C.	103	00 00

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Brunt, B. G.	109	60 00	Winterior A T	100	60 00
	103	60 00	Wickwire, A. L.	103	60 00
Brodie, I.	103	60 00	Wiswell, I. M.	103	60 00
Brown, E. R.	103	60 00	Woolrich, M. E.	103	60 00
Drown M I			Noonich, M. E.		34 52
Brown, M. L.	103	$60 \ 00$	Ackhurst, M. L.	79	34 00
Burgoyne, A. V.	103	60 00	Angelorum, Sr.	103	45 00
Cecelia, Sr.	103			- 69	40 63
		60 00	Baker, G. H.	93	25 00
Chisholm, E.	24	13 98	Baker, G. J.	103	45 00
Concepta, Sr.	103	60 00	Bayer, A. L.	103	45 00
					6 54
Cunningham, A. M.	103	$60 \ 00$	Billman, G. I.	15	0 72
DeChantal, Sr. F.	103	60 00	Blakeney, E. M.	. 20	8 73
DeChantal, Sr. M.	98	57 07			4.4 50.
Dechantal, St. W.			Blois, E. H.	102	45 00
Delahanty, K.	103	60 00	Catherine, Sr.	103	40 00
Dempsey, I. B.	103	60 00	Christina, Sr.	35	15 29
Dolorita, Sr.	103		Christina, 51.		36 27
Doloi Ita, St.		60 00	Clark, E. M.	83	30 20
Edwina, Sr.	103	60 00	Conrod, E. M.	103	45 00
Ernestine, Sr.	103	60 00			45 UV
			Cunningham, E. S.	103	45 00
Ethelbert, Sr.	103	60 00	Curren, E. M.	103	40 00
Florence, Sr.	103	60 00	DePazzi, Sr.	103	45 00
Flowers, E. M.			INCLUDE, OF		45 00
	103	60 00	Delphine, Sr.	103	45 00
Flowers, H. L.	103	60 00	Devine, M. E.	103	45 00
Francis, Sr.	103	60 00			4 K () U
Lancis, VI M			Evangelista, Sr.	103	45 00
Fraser, W. M.	103	60 00	Felix, Sr.	103	45 00
Frye, B. E.	103	$60 \ 00$	Finn, Mme.	103	45 00
Gervase, Sr.	103		Carrage 35		10 40
		60 00	Gowen, M.	24	45 00
Greig, G. S.,	103	60 00	Gualbert, Sr.	103	40 00
Greig, L. C.	103	60 00	Grierson, F.	100	43 68
Harlow, A. O.			Gricison, F.		45 170
	103	60 00	Grierson, M. H.	103	45 00
Haverstock, A. M.	103	60 00	Hamilton, H. H.	103	45 00
Hazle, E. M.	103	60 00	Hartigan, Sr.		98 91
	98		II	89	45 00
lgnatia, Sr.		57 07	Healy, K. E.	103	40 71
Joseph, Sr.	103	60 00	Helena, Sr.	68	29 71
Kelly, Mme.	103	60 00	Henrion, C. E.		45.00
Kenny, M. B. D.	. 103		Tremion, C. E.	· 103	45 00
		60.00	James, C. A.	103	49 00
Kierstead, M. F.	103	60 00	Jamieson, H. J.	103	45 00
Laracy, A. X.	103	60 00	I Pontin C		45 100
Leontine, Sr.	103		J. Baptist, Sr.	103	45 00
		60 00	Johnson, I. J.	103	45 00
Longueil, E.	103	60 00	Joseph, Sr.	103	45 00
Maria, Sr. S.	113	60 00	Kannada M. C		45 UV
Macdonald, V. A.	103	60 00	Kennedy, M. C.	103	45 00
Macdonard, 17		60 00	Leo, Sr.	103	45 00
Marshall, L. E.	79	46 01	Leocadia, Sr.	103	45 00
Mason, B. E.	103	$60 \ 00$	Logan, A.		15 1/0
Morrison, E. J.	103	60 00	Logan, A.	103	15 00
	103		Lyall, B. H.	103	45 00
O'Brien, M. A.		60 00	Lyons, M.	103	40 00
Phelan, M. F.	103	60 00	McArthur I D		15 170
Pius, Sr.	103	60 00	McArthur, J. R.	103	45.00
	103		MCDermott Mme	103	45 00
Publicover, L. D.		60 00	McDonell, Mme.	103	$\frac{45}{45} \frac{00}{27}$
Pye, E. C.	103	60 00	McGill, F.		
Rankine, A. B.	103	60 00	McGill, F.	10	45 00
		00 00	McGillivray, F. G.	103	45 00
Ross, E. J.	103	60 00	MICCIPPONE A	103	45 00
Sanders, K. O.	103	60 00	Maclean, A.		45 00
Saunders, A. C.	103	60 00	Maciean, A.	103	45 00
			wartin, M T	103	45 00
Shields, E. G.	103	60 00	Mary, Sr.		45 00
Shields, S. W.	103	60 00	Mitchall	103	
Sims, S. A.	103	60 00	Mitchell, L. E. J.	100	45 00
C to C D		00 00	prooney, a M	103	
Smith, S. B.	61	35 53	O'Donaghue M. m. m.	102	40 .0
Spencer, E. M.	103	60 00	O'Donaghue, M. T. T.	103	45 00
Sullivan, Mme.	103	60 00	i ci petua. Se	103	15 00
ounivan, mine.		60 00	Phelan, F. 1	103	45 56
Theakston, H. S. F.	103	60 00	Publicover, J. E.	102	44 .0
Thompson, F. M.	103	60 00	Putnam A 12		45 0
	103	60 00	Putnam, A. F.	103	45 00
Tullock, M. E.		60 00	Remigius, Bro.	103	45 00
Trefry, E. C.	103	60 00	Rita, Sr.		45 00
Tynan, J. C.	103	60 00	Poolson M.	103	40
		60 00	Rockett, M. M.	103	15 00
Vincent, Sr. M.	103	60 00	Ross, Carrie E.	103	06 21
Vincent, Sr. F.	103	60 00	Smith, G. V.	83	
Wakeley, A. C.	103	60 00		100	45 00
		60 00	Stratton, E.	103	15 00
Wallace, E. M.	103	60 00	Sullivan, M.	103	45 00
Whalen, A. T.	42	24 47	Sullivan, M. T.	103	40
			Same and the T.	100	

	Sullivan, M. T. R.	103	45.00	D-1. 1 FY		
	Theakston, S. E.	103	45 00 45 00			45 00
	Travis, A. A.	103	45 00 45 00		103	45 00
		103	45 00		103	45 00
	Umlah, L. A. B. Vincent S. B.	103	45 00		103	45 00
	Vincent, Sr. R. Walsh A.M.	103	45 00	The Man Triller NA	103	45 00
	Walsh, A. M. Warner M. F.	103	45 00	DeVan, Rueen M. DeVan, Nano	103	45 00
	Warner, M. F. Wells C	103	45 00	Dickie, Gertrude	102 20	44 56
	Wells, C.	103	45 00	Dickie, Mabel B.	103	8 72
		103	45 00	Ernst, Florence C.	103	45 00
		103	45 00	Faulkner, Melissa	103	45 00
		24	6 98	Ferguson, Cora M.	103	45 00 45 00
	patrick, M. F.	103	30 00	Findlay, Sadie	103	45 00
		103	30 00	Fraser, Ellen J.	102	44 56
	Macaloney, K.	87	25 33	Fulton, Susie D.	1011	44 34
	Sweeney, M.	103	30 00	Gallagher, Mildred	1002	43 68
		•		Glawson, Ethel M.	102	44 56
	Evening Sc	hools.		Graham, Myrtle E.	103	45 00
	Faulkner, A. W.			Guild, Jean	103	45 00
	Huggin, A. W.	17	9 89		69	30 13
	Parker G. M.	17	9 89	Hamilton, Janet Harrison, Helen	103	45 00
	Mack	16	9 31	Hume, Bessie	103	45 00
	Mackasey, W. F. Jemmott, M. F.	17	7 41	Hume, Mary E.	103	45 00
	mott, M. F.	23	6 69	LaidLaw, Elizabeth	98	42 80
				Marryatt, Ida	102	44 56
	Annuitar	ıts.		Maskell, Eva A.	103	45 00
ř	Hall, H. McG.		_	Murray, B. F. J.	103	45 00
	Torrey, C. E.		60 00	Myers, Jeanetta A.	103	45 00
	Osein		45 00	Myers, Tillie A.	103	45 00
	Crainfi C. IVI.		30 00	McGill, Frances	108	47 18
	ohns. M A		60 00	McGinty, Agatha	103	45 00
	Johns, M. A. Weir, Lewis.		45 00	MacKay, Isabel	103	45 00
	W15.		45 00	MacKenzie, Margaret		45 00
				McLeod, Beatrice	103	45 00
	HALIFAX CO	שימוזו		Nicholson, Mary V.	103	45 00
	Store	JOINT 1.		Partridge, Ethel	102	44 56
	Stapleton, W. C.	108	105 00	Parke, Nellie L. Parke, Marion	$\begin{array}{c} 98 \\ 102 \end{array}$	42 80 44 56
•	Walker, Mabel R. Rai, Christina		8 43	Roche, Mary	103	45 00
	Allen, Christina Balcom, Hilda B	100	72 81	Rutherford, Julia J.	98	42 80
		103	60 00	Shaw, Sarah E.	97	42 37
	THE TAPE THE PARTY OF THE PARTY	100	58 25	Smith, Alice M.	102	44 56
	Other Jil.	103	60 00	Smith, Isabella	$7\overline{2}$	31 44
	Crain Violet	92	<b>53 58</b>	Thomas, Bessie	103	45 00
•		108	60 00	Thompson, Ray M.	103	$45 \overset{\circ}{00}$
	Dickie, Lillie A. Hiltz, Ethel M. Heltz, Mary C.	103	60 00	Tolson, Elizabeth A.	101	44 12
	Hiltz, M.	103	60 00	Vaughan, Ethel	98	42 - 80
		103	60 00	Wier, Amelia	87	37 99
		103	60 00	White, Mabel I.	97	42 37
	Leblanc, Annie H. M. Miller, Florence M.	102	59 41	Wolfe, Jessie A.	100	43 68
	Miller, Florew, A.	103	60 00	Archibald, Nellie	103	30 00
	Miller, Florence M. Moseley, Mabel, C. Muner, Mary I	108	60 00	Bambrick, Lena	103	30 00
	M. Maner, Marrit	103	60 00	Barkbouse, Mary J.	103	30 00
٠,٠	Manro, Lizzio D	103	60 00	Brokenshire, Amelia	103	30 00
1		98	57 07	*Brown, Jessie M.	83	32 23
1	Machy, Alice	4 00		Recover Manuel II	100	00 *0
	McCurdy, Alice	103	60 00	Brown, Martha H.	100	29 12
	McCurdy, Alice Ogilvie, Mary J.	103	60 00	Burris, Annie	102	29 70
	McCurdy, Alice Ogilvie, Bertha C. Ogilvie, Bessie D.	108 103	60 00 60 00	Burris, Annie Crawford, Jennie	102 90	29 70 26 21
	McCurdy, Alice Ogilvie, Bertha C. Ogilvie, Bessie R. Ogilvie, Phebo	108 103 103	60 00 60 00 60 00	Burris, Annie Crawford, Jennie Christie. Margaret	102 90 98	29 70 26 21 28 53
	McCurdy, Alice Ogilvie, Bertha C. Ogilvie, Bessie R. Ogilvie, Phebe, A. Palmer, Glady.	108 103 103 102	60 00 60 00 60 00 59 41	Burris, Annie Crawford, Jennie Christie, Margaret Christie, Ruth M.	102 90 98 102	29 70 26 21 28 53 29 70
	McCurdy, Alice Ogilvie, Bertha C. Ogilvie, Bessie R. Ogilvie, Phebe, A. Palmer, Gladys Shee ott, Alice	108 103 103 102 103	60 00 60 00 60 00 59 41 60 00	Burris, Annie Crawford, Jennie Christie, Margaret Christie, Ruth M. Conrad, Hazel B.	102 90 98 102 103	29 70 26 21 28 53 29 70 30 00
	McCurdy, Alice Ogilvie, Bertha C. Ogilvie, Bessie R. Ogilvie, Phebe, A. Palmer, Gladys Shaffelburg, Ada I	108 103 103 102 103 103	60 00 60 00 59 41 60 00 60 00	Burris, Annie Crawford, Jennie Christie, Margaret Christie, Ruth M. Conrad, Hazel B. Corner, Bessie B.	102 90 98 102 103 103	29 70 26 21 28 53 29 70 30 00 30 00
	McCurdy, Alice Ogilvie, Mary J. Ogilvie, Bersha C. Ogilvie, Phebe, A. Palmer, Gladys Shaffelburg, Ada L. Strachan, Ada L.	108 103 103 102 103 103 103	60 00 60 00 59 41 60 00 60 00 60 00	Burris, Annie Crawford, Jennie Christie, Margaret Christie, Ruth M. Conrad, Hazel B. Corner, Bessie B. *Crook, Edna	102 90 98 102 103 103	29 70 26 21 28 53 29 70 30 00 30 00 28 78
	McCurdy, Alice Ogilvie, Mary J. Ogilvie, Bersha C. Ogilvie, Phebe, A. Palmer, Gladys Shaffelburg, Ada L. Strachan, Ada L.	108 103 103 102 103 103 103 103	60 00 60 00 59 41 60 00 60 00 60 00 60 00	Burris, Annie Crawford, Jennie Christie, Margaret Christie, Ruth M. Conrad, Hazel B. Corner, Bessie B. *Crook, Edna Cruiskbank. Melville	102 90 98 102 103 108 74 94	29 70 26 21 28 53 29 70 30 00 30 00 28 73 27 37
	McCurdy, Alice Ogilvie, Mary J. Ogilvie, Bersha C. Ogilvie, Phebe, A. Palmer, Gladys Shaffelburg, Ada L. Strachan, Ada L.	108 103 103 102 103 103 103 103	60 00 60 00 59 41 60 00 60 00 60 00 60 00 31 00	Burris, Annie Crawford, Jennie Christie, Margaret Christie, Ruth M. Conrad, Hazel B. Corner, Bessie B. *Crook, Edna Cruiskbank, Melville DeWolfe, George A.	102 90 98 102 103 108 74 94	29 70 26 21 28 53 29 70 30 00 30 00 28 78 27 37 30 00
	McCurdy, Alice Ogilvie, Bertha C. Ogilvie, Bessie R. Ogilvie, Phebe, A. Palmer, Gladys Shaffelburg, Ada I	108 103 103 102 103 103 103 103	60 00 60 00 59 41 60 00 60 00 60 00 60 00	Burris, Annie Crawford, Jennie Christie, Margaret Christie, Ruth M. Conrad, Hazel B. Corner, Bessie B. *Crook, Edna Cruiskbank, Melville DeWolfe, George A. Dickie, Ada B.	102 90 98 102 103 108 74 94	29 70 26 21 28 53 29 70 30 00 30 00 28 73 27 37

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*Drillio, Bessie C.	55	21 36	Annuitar	its.	
Drysdale, Annie J.	103	30 00	Millon Coons I		75 00
*Ernst, Grace L.	83.	32 23	Miller, George J.		an 00
Foley, Irene	93	27 08	Herdman, W. C.		60 OU
Gaetz, Mima A.	102	$\begin{array}{ccc} 29 & 70 \\ 29 & 41 \end{array}$	Mary Ann, Sister		30 OA
Garrison, Vera G.	101	30 00	Bacon, Amelia		30 00
Gourley, Margaret J.	103	28 53	Gibbons, John		0.0
Goff, Flora M.	98	32 91		_	
Glawson, Annie E.	$\frac{113}{87\frac{1}{2}}$	33 97			
*Godwin, Edith L.	89	25 91	HANTS	<b>.</b>	
Graham, Alice M.	1021	29 85	*******	•	*
Guild, Agnes L.	103	30 00	West.		
Grant, Janet M. Gray, Cecilia J.	103	30 00	,		20
Guild, Effie J.	89	25 91	Dill, George W.	103	105 00
Guild, Ethel G.	103	30 00	Smith, John A.	103	105 00
	60	23 30	Scott, Agnes B.	97	70 01
*Havill, Mary	94	36 50	Black, Pearl McK.	103	60 00
Hawes, Susan	79	23 00	Davies, Kathleen	103	60 00
Heisler, Nellie M.	94	$\frac{1}{27}$ $\frac{1}{37}$	Demmons, Mona	103	60 00
Henry, Ida M.	99	28 82	Dodge, Leila J.	103	60 00 60 00
Hilchie, Nellie M.	88	25 62	Lantz, Helena M.	103	60 43
Hilchie, Stella B.	102	29 70	Lawrence, Lily M.	95	55 33
Hopkins, Effie R.	103	30 00	Lewis, Lena L.	103	60 00 57 07
*Innis, Charles S.	78	30 29	Lockhart, Bessie B.	98	60 00
*Isenor, Cora B.	69	26 79	Lockhart, Lena M.	103	59 70
James, Annie M.	98		MacRae, Luella	$102\frac{1}{2}$	59 41
Jewers, Annie M.	98	28 53	Muise, Elizabeth	102	60 00
*Josey, Ansel L.	86	33 39	McLellan, Mary	103	en uv
Julien, Emma B.	103	30 00	Nunn, May	103	59 70
Keeler, Celia	101	29 41	O'Brien, Annie B!	$102\frac{1}{2}$	en uv
Logan, Heber	64	18 63	Trenholm, Olga	103	20 UV
Lowe, Elizabeth A.	82	23 88	Webster, Abbie R.	103	46 UV
Lowe, Katherine M.	102	29 70	Baxter, Mabel C.	103	45 00
*Lowndes, Vera E.	67 78	$\begin{array}{ccc} 26 & 01 \\ 30 & 29 \end{array}$		103	45 UV
*Martin, Katie L.	101	29 41	Burgoyne, N. A.	103	45 00
Mason, Guy	88	25 62	Dimock, Annie	103	7E 110
Myers, Bertha F.	103	30 00	Foley, Ethel	103	42 80
Murray, Isabell MacCarthy, Cornelia	90	26 21	Fraser, Daisy R.	$\begin{array}{c} 98 \\ 103 \end{array}$	45 80 45 00
*MacCarthy, Kat. M. MacCarthy, Tena J. MacDaneld, Helen	103	40 00	Goudey, Emily	98	
MacCarthy Tena I.	102	29 70	Harvey, Arabella Jenkins, Giralda	102	
MacDonald, Helen	72	20 97	Jacques, G. V.	20	44 72 45 00 45 62
MacKay, Annie	102	29 70	l Kallas Nation	103	45 00
MacKay, Ina E.	. 83	94 177	Kent, Bessie W.	93	40 33
MacKenzie, Elsie C.	103	30 00	Lawrence Houset	87	45 62 40 99 87 00
*Parlee, Alwilda M.	$102\frac{1}{2}$	39 81	Lynch, Jessie A.	103	45 00
Prest, Mary M.	$97\frac{1}{2}$	28 39	Lynch, Jessie A. Mariette, Emma	52	45 71 22 73 36 00
Reid, Mabel L.	103	aŭ vu	Marsters, Gladys	82 <del>1</del>	
Ritcy, Agusta O.	103	30 00	Willett, Georgetta	103	
Ritcy, Jean L.	103	30 00	intoore, lennie	103	10 W
Schultz, Jessie E.	$78\frac{1}{2}$	22 86	MCDonald Katherine	100₺	
*Skerry, Emma	$\begin{array}{c} 102 \\ 103 \end{array}$	39 61 30 00	MICCUITOV Halan	103	44 78 45 00
Stoddard, Hildred B.	103	20 00	U Drien, Maggia	$102\frac{1}{2}$	45 00
Stoddard, Lena S.	68	30 00 19 79	U Brien, Jennie	103	10 NO
Shaw, Selena	$93\frac{1}{2}$	27 23	Larsons, Harriet	100	
Smith, Emmie G.	102	29 70	Sanford, Alida	103	45 00
Stoddard, Sabina B.	97	28 24	Shaw, Mildred	103	45 00 45 00 45 00
Townsend, Dorothy	101	29 41	Shipley, Mary H.	103	45 00
Tupper, Aleda	103	40 00	Spidell, Jennie	103	45 00 80 00
*Upshaw, Ethel I.	102	29 70	Sweet, Annie E.	103	80 00
Warner, Mary	103	30 00	Brown, Edith S.	$\begin{array}{c} 103 \\ 103 \end{array}$	30 48
Webber, Joyce	88	25 62	Card, Edna R.	98	30 00 30 53 28 70
Wilson, Florence	98	28 53	Davidson, Rebecca Greenough, Jennie	102	29 70 30 00
Williams, Sarah E.	103	30 00	Hamilton, Olevia	103	30 00
Yeadon, Ida M.	84	32 62	Laws, Lillian F.	103	30 00
*Young, Mary E.	U-12	V4 04	Laws, Lindil F.	100	

McCallum, Mabel	100	00.00	1.4 -		
Sanfand H.	103	30 00		103	30 00
	98 103	28 53		87	25 33
Underwood, Elizabeth	103	30 00		103	30 00
Vaughan, Cora A.	103	30 00	, see and see and see a	$46\frac{1}{2}$	13 54
Warr, Evangeline	103	30 00	7	103	30 00
tungenne	100	30 00		103	30 00
In Poor Se	ctions.		Wallace. Della E. Withrow, Ethel B.	98 98	28 53
Benedict					28 53
Harvey, Meta A. Muller, Lena	97 76	37 67	In Poor Sec	tions.	
Muller, Lena Rose Paris	100	29 51	D . M. M.		
Rose, Bessie M.	69	40 00 26 79	Burton, Matilda	81.	31 45
Underwood, Ruth	86	33 39	Brown, Helen	89	34 56
Warr, Marjorie	103	40 00	Brownell, Pleasah	88	34 17
33,0110	100	40,00	Etter, Gorden A.	45	17 47
East.			MacDougall, Merle	101	39 22
Doane, Margaret A. Chase, Gertrude M	100	F	Annuitar	ıts.	
Chase, Margaret A. Dowell, Very P.	103	75 00			
COmoti - or or orde TAT.	103	60 00	Goudey, Theodosia		60 00
Holesworth, Mabel C.	37	21 54	Scott, Lily A.		60 00
Logan, Jessie B.	103	60 00	Smith, Letson M.		60 00
Witch: a coste D.	103	60 00	Scott, Annie E.		45 00
MacDougall, Myrna McKinnon John J	76	44 26			
O'E Kinnon John I	103 20	60 00			
	20 20	11 64			
	103	11 64 60 00	INVERNE	SS.	
Simm, Ada	103	60 00	~		
Simm, Ethalyn Starratt	102	59 41	South.		,
Starratt, Hattie B. Weldon, Augusta	103	60 00	Tompleine Lie	00	00.00
	101	58 83	Tompkins, Ida	98	99 90
	103	60 00	Hennesey, Margaret Hirtle, Roy J. E.	98 102	57 07
	103	45 00	McDougall Jessie A	98	59 41
	101	44 12	McDougall, Jessie A. MacLellan, Mary F.	103	57 <b>.</b> 07 60 00
Sink 23 Maishel	103	45 00	Sr. St. Marie Dolores	108	60 00
	46	20 08	Sr. St. Zephyrin	103	60 00
	103	45 00	Bird, Vera	102	44 56
Paul Nathorina	103	45 00	Davis, Catherine M.	103	45 00
	1021	44 78	Fox, Bertha	103	45 00
Gates, Lalia King, Gertrude	103	45 00	Grant, Bertha A.	103	45 00
King, Gertrude Loughead A.	100	43 68	Henderson, Mamie B.	102	44 56
	103	45 00	onara, jobsio	103	<b>45</b> 00
Winet TY Ather	103	45 00			<b>45</b> 00
Morellan Anni	1021	44 78	MacDougall, Agnes	103	<b>45</b> 00
	103	45 00	McMaster, Duncan B.	103	45 00
McLellan, Annie McLellan, Ruth G. O'Brien, Margaret Smith, Miles, A	103	45 00	Martin, Marion	103	<b>45</b> 00
Smitten, Miles A	80 103	34 94 45 00	Mosher, Clarence M.	98	42 80
Smith, Eva M	93	40 62	Sister St. Olga	103	45 00
Sparty Mary I	103		Sister St. Philip	103	45 00
Stenk, Sadie I	103	45 00	Strople, Janie I.	102	44 56
	103	45 00 45 00 45 00	Tompkins, Mary E.	103	45 00
Taylor, Sadie O. Walterwood, Appie	97	42 37	Dayne, Lily 1.	82	23 88
Underwood, Annie Wallace, Ellen	103	45 00	Beaton, Sarah A.	97	28 24
Wallace, Ellen Wighthered, Jacob	103	45 00	Beaver, Lina M.	87	25 33
Weathered, Jessie Wickwire, Margaret	103	45 00	Boyle, Cecilia M Breen, Frances E.	103	30 00
Wickwin Jessie	103	45 00	Chisholm, Katie	97 102	28 24
Wickwire, Margaret Withrow, Mary L. Aldred, Florence	98	42 80	DeCoste, Florence K.	102 62	29 70
Wright, Florence Bradel, Laura	102	44 56	Forbes, Jessie A.	103	18 05
Aldred, Florence Bradshaw, Japan	102	44 56	Forbes, John C.	88	30 00
Fradsha Laura	76	22 13	Forrestall, Mary	103	25 62 30 00
Bradshaw, Janet Horn, Florence	103	30 00	Gillis, Dougald A.	55	16 01
Etter, Florence Mact, May E	58	16 88	Gillis, Mary C.	103	30 00
Horne, Florence Macdonald, Ada	103	30 00	Graham, Katie M.	45	13 10
Macdonald, Ada MacKenzie, Gertrude	89	25 91	Grant, Cassie J.	79	23 00
MacKenzie, Gertrude	89	25 91	Hawley, Maude	64	18 63
	•				

Jamieson, Alexandra M.	84	24 46	McDaniel, Annie E.	103	45 00
Kennedy, Mary M. A.	86	25 04	McDougall, Katherine	100	43 68
Leonard, Catherine C.	71	20 68	MacIsaac, Mary A.	71	31 00
McCalder, Norman A.	74	21 55	MacKean, Rilda M.	102	44 56 45 00
McDonald, Agatha	84	24 46	MacKinnon, Mary A.	103	45 00
McDonald, Christina	90	26 21	McLean, L. E.	103	45 00
McDonald, Christina	66	19 21	McLellan, Florence C.	103 103	45 00
	103	30 00	McLellan, A. N.	103	45 00
	102	29 70	McLeod, Teresa	84	36 68
McDonald, Tena Eliza	70	20 39 27 37	Sister St. Berthold Sister St. Mary Jane	103	45 00
McDonnell, Mary F.	94	30 00	Austen, Katherine	66	19 21
	103	24 46	Beaton, Bella	74	21 55
MacFadyen, Barbara R.	84 82	23 88	Cameron, Ellen C.	85	24 75
McFadyen, Florence M.	89	25 91	Cameron, Marion	103	30 00
McInnis, Catherine C.	74	21 55	Campbell, Lucy J.	77	22 42
McKenzie William D	$6\overline{4}$	18 63	Collins, Sadie K.	103	30 00
McIntosh, Jessie A. McKenzie, William D. McKinnon, Christina	89	25 91	DesVaux, Adele D.	103	30 00
McLellan, Margaret B.	73	21 26	Doucet, Delina	103	30 00
MacLeod, Mary Ann	98	28 53	Doucet, Adele S.	103	30 00
MacNeill, Mary A.	98	28 53	Doucet, Philip G.	100	29 12
MacQueen, Alice	103	30 00	Ferguson, Helen J.	84	24 46
McQueen, Christina	85	24 75	Ferguson, Rachel	70	20 39
MacRae, Barbara	67	19 50	Gillis, Ronald A.	64	18 63
Miller, Christena I.	103	30 00	Iamieson, Beatrice M.	70	20 39
Rose, Janet F.	83	24 17	Kennedy, Murdoch D.	10	2 91
Watt, Bridgie G.	99	28 82	LeBlanc, Paul F. D.	103	30 00
Watts, Ada M.	103	80 00	LeBlanc, Mary	103	30 00
*Cameron, Isabell	72	27 95	LeBlanc, Thomas	103	30 00 26 21
	103	40 00	McDonald, Mary J.	90	29 70
22000 B 27	59	22 91	McGregor, Dan E.	102	30 00
*McDonald, Florence	82	31 84	McGregor, Mary A.	103	25 91
*McDonald, Catherine *MacLellan, Archibald D	81	31 45	MacLean, Malcolm H.	89	5 52
*MacLellan, Archibald D	69	26 79 6 99	McLellan, Mary C.	19 88	25 62
*MacLellan, Marcella B.	18	0 00 1			25 91
*MacPhail, Ellan S.	89	34 56	McLellan, Mamie	89 78	22 71
*Proctor, Nellie F.	109	42 33	McLellan, Alexander D.	93	27 08
			McLellan, Margaret	103	30 00
Annuitante	3.		McMillan, Daniel	98	28 53
a b		60.00	McNair, Margaret E.	82	23 88
Chisholm, Duncan		60 00	Macquarrie, Annie	103	30 00
McQuarrie, Angus		30 00	Murray, Claude	93	27 08
,			Philips, Maggie C. Sister Margaret Mary	103	30 OV
			Walker, Mary C.	102	29 70
North.			Walker, Mary C.	102	
Arseneau, Florence	108	60 00	In Poor Sec	tions.	
Collins, Daniel Cormier, Wm. E.	98	57 07		•	
Cormier, Wm. E.	108 ·	60 00	Austen, Bella M.	89	34 56
Gillis, Malcolm_H.	_88	51 24	Beaton, Margaret C.	83	32 23
LeBlanc, John J.	108	60 00	Cameron, Mary B.	47	18 25
McDonald, Duncan H.	103	60 00	Cameron, Christena Delaney, Matilda	89	34 56
McLellan, Annie M.	108	60 00	Delaney, Matilda	103	40 00
MacLeod, Francis C.	103	60 00	MicDonald, Katie Anne	80	31 06
Morrison, Alex. B.	103	60 00	MacDonald, Angus A.	98	36 11
Sister St. Andrew	103	60 00	McLellan, Hugh	73	28 34 15 53
Sister Mary St. Stephen	103	60 00	McMillan, Dan A.	40	31 45
Archibald, A. D.	36	15 71	Robertson, Mamie	81	20 97
Aucoin, James H.	108	45 00	Smith, S. Lorena	54	31 84
Blanchard, Annie J.	91	39 75	Tompkins, Mary A.	82	31 02
Chiasson, Ephraim	102	44 56	1		
Coady, Sara J.	98	42 80	C		
DeCoste, Joseph A.	14	6 10	Consolidat	ions.	
Doucet, Cecilia	103	45 00	Factors Harban D sas	1 000	58 24
Gillis, Katherine	108	45 00	Eastern, Harbor D, 191		30 00
Gillis, Michael	103	45 00	Aberdeen, D	103	UV

Annuitar	nts.		Erskine, Jennie B.	103	45 00
			Fairweather, Winnie	98	42 80
McLean, Donald E.		60 00	Francy, Bertha	98	42 80
Gillis, John A.		45 00	Freeman, Blanch	59	25 77
McDougall, Arch. S.		45 00	Harris, Mary H.	103	45 00
McDonald, Teresa		145 00	Iewers, Beatrice	98	42 80
McKinnon, Malcolm		45 00	Jones, Bessie M.	98	42 80
Nicholson, A. G.		45 00	King, Mildred E.	103	45 00
14(61010011, 121 01		1	Lamont, Nancy	103	45 00
,	-	1	Lawrence, Lillie	27	11 78
			Levy, Evelyn	88	38 <b>43</b>
KING'	S.	l	Loomer, Elizabeth	103	45 00
11110	<b>.</b> .	1	Mapplebeck, Idella	103	45 00
Comphell Tessia R	22	22 40	Mahan, Effie E.	103	45 00°
Campbell, Jessie B.	95	96 82	MacLeod, Ethel	102	44 56
Ford, Robie W.	98	85 60	Manthorne, Muriel	101	44 12
Oxner, Bertha	98	99 87	Marshall, Ida M.	103	45 00
Swanson, Peter I.	98	85 60	Marshall, Lettie	103	45 00
Webster, Winnifred	94	54 74	Morse, Kate O.	103	45 00
Armstrong, Flora		60 00	Mosher, Margaret	102	44 56
Armstrong, Georgie	103	60 00	Neary, Stella B.	103	45 00
Best, Flora A.	103	57 07	Newcombe, Bertha	100	48 68
Coggins, Adelaide	. 98	57 07		102	44 56
Chambers, Flora	98		Nichols, Lola	103	45 00
Chipman, Emma	103	60 00	Palmeter, Nora	97	42 37
Dennison, Gertrude	103	60 00	Parker, Essie	54	23 58
Elliott, Ora B.	103	60 00	Parker, Prudence	103	45 00
Francy, Mary J.	103	60 00	Plant, Thomas W.		36 68
Hamilton, Helena	95	55 33	Quigley, Mary E.	84	45 00
Hall, Bradford	103	60 00	Rand, Harriett	103	45 00
Healey, Lidy, A.	103	60 00	Reid, Eva M.	103	
Hird, Cassie B.	103	60 00	Robbins, Cecil C.	103	45 00
Illsley, Lucy A.	99	57 66	Roscoe, Viola	103	45 00
Jacques, Violet, D.	103	<b>60 0</b> 0	Sanford, Celia	108	45 00
Kent, Mary A.	103	60 00	Sawler, Merinda	98	42 80
Lewis, Dora F.	103	60 00	Simpson, Lulu	103	45 00 44 12
Loomer, Estelle J.	103	60 00	Spinney, Edith	101 103	45 00
Lutz, Carrie M.	108	60 00.	Swindell, Charlotte	14	6 10
Macdonald, Ruby	103	60 00		103	45 00
Marchant, Laura	69	40 18	Weaver, Mabel	103	45 00
Marshall, Gertrude	103	60 00	Woodworth, Cora		20 97
Morse, Elizabeth	103	60 00	Blackburn, Laura	72	25 91
Munro, Mary E.	103	60 00	Densmore, Audrey	89	
Nowlin, Elsie M.	103	60 00	Denton, Helen	98	28 53
Parker, Millie V.	103	60 00	Duff, Jessie	$102\frac{1}{2}$	29 85
Purdy, Agnes L.	98	57 07	Easson, Mabel B.	103	30 00
Reddy, Gertrude	103	60 00	Hale, Sadie E.	103	30 00
Rines, Rossie	98	57 07	Henderson, Elizabeth	84	24 46
Robinson, Win. E.	103	60 00	Illsley, Lila	5	1 45
Seaboyer, Mabel	103	60 00	Illsley, Ruth	103	30 00
Seanoyer, Mader	103	60 00	Long, Gertrude	103	30 00
Shields, Dorinda	98	57 07	Mitchell, Ida L.	103	30 00
Smith, Jennie J.	103	60 00	MacLean, Annie	101	29 41
Strong, Mae S.	98	57 07	Ogilvie, Gertrude	108	30 00
Turner, Beatrice	102	59 41	Sanford, Ethel	103	30 00
Webster, Elsie	97		Sanford Marion	103	30 00
Welton, Jennie	98	56 49 57 07	Sanford, Marion	84	24 46
West, Gladys			Strong, Gladys, B.	103	30 00
Whitman, Viola B.	103	60 00	Thorpe., Kate V.	88	25 62
Woodward, Grace	98	57 07	Trenholm, Edith	50	20 00
Yould, Evangeline	. 98	57 07	In Poor Se	ction-	
Brown, Mertie B.	98	42 80		~~~410.	
Calder, Marie	.98	42 80		90	31 89
Challen, Bēśsie	103	45 00	Archibald, Mary McK.	. 88 60	25 01
Chesley, Ella M.	103	45 00	Ballon, Stella	· 69	36 62
Chute, Edith	103	45 00	Fancey, Elizabeth	101	32 25
Corkum, D. A.	103	45 00	Fox, Evelyn V.	89	82 25
Dow. Margaret	98	42 80		89	31 58
Eaton, Bertha M. L.	103	45 00	Hall, Ella C.	87	97 00
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	Holland, Beatrice	59	21 38	Fralic, Elsie	103	45 00
	Jarvis, Myrtle	87	31 53	Freeman, Inna	97	42 37
	Kaulbach, Ella	00	01 00			27 52
	Kaulbach, Ella Levy, Addie MacCully, Florence Marshall, Nina Pentz, Myrtle	98	35 52	Gaul, Ethel	63	21 02
	Levy, Addie	89	32 25	Greenlaw, Marion		45 00
	MacCully Florence	EA	19 58	Hambald C	100	44 56
	Traceury, Profesice	04	19 00	Hawboldt, Gertrude	102	44 00
	Marshall, Nina	89	32 25		103	45 00
	Pentz, Myrtle	100 44	36 25	Hebb, Arthur W. Hebb, Jennie L.		40 62
	D 1 D 1	100	30 40	Hebb, Arthur W.	93	40 00
	Parker, Ruby H.	44	15 95	Hebb. Jennie L.	103	45 00
	Robinson, Ethel	$102\frac{1}{2}$	37 16	Hilta Annia I		A5 00
	Dobinson, Wist D	1022	00 05	Hiltz, Annie L.	103	8 72
	Robinson, Victor B.	89 <sup>2</sup> 80 87	32 25	Hirtle, Ethel Hirtle, Mary E.	20	8 15
	Rodgerson, Pearl	80	29 00	Hirtle Mory F		45 00
	Dogo Lours M	00	01 50	Timule, Mary E.	103	
	Rose, Laura M.	87	31 53	Hirtle, Nora	103 *	40 00
	Sawler, Edith G.	83 87 <u>1</u> 98	20 00	Hirtle, Olive		45 00
		001	00 00	in the, Onve	103	45 00
,	Schofield, Lily B.	. 87 🛊	31 72	Keddy, Clande	103	40 00
	Skerry, Jessie B.	98	35 52	Langille, Edith	103	45 00
	Smith Mallia	00	00 01	Langine, Luith		45 00
	Smith, Nellie Swindell, Laura Ward, Edith R. Weaver, Annie L.	90	33 71	Langille, Myrtle	103	45 00
	Swindell, Laura	66	23 92	Lohues, Minnie	103	45 00
	Ward Edith R	97	21 50	I -b C. H		45 00
	TYT-	01	31 53	Lohues, Stella	103	40 00
	weaver, Annie L	88	31 89	Mader, Bessie	103	45 00
				Manning Mann		4K 00
	<b>A</b> .			Manning, Myra	<b>10</b> 3	75 00
	Ann	uitants.		Mason, Jessie	103	45 00
				Millett, Sadie		45 00
	Codfror John		#F 00	wintert, Saule	103	36 68
	Godfrey, John		<b>75 00</b>	Mouzar, Laliah	84	30 10
	Andrews, Henry M.		60 00	Naugler, Agnes	101	44 12
	Banks, Alonzo			Traugici, rightes		44 56
	Danks, Mionzo		<b>60</b> 00	Nichols, Leon	102	42 00
	Craig, James		45 00	Nicol, Minnie	103	45 00
					100	10 4
	-4			Parker, Carrie	103 24	45 00
		· ·		Rinehardt, Grace	103	40 00
	LUNE	NBURG.		Remby, Lottie	100	44 56
				Tremby, Lottle	102	44 56
	37 1 D m			Richards, Edith	102	44 00
	Mack, R. T.	103	105 00	Ritcey Geraldina	100	45 00
	McKitterick, B.	103	105 00	D-J-1	100	40 74
	Maland Yannati	100	100 00	Rodenneiser, Lettie	99	45 00
	McLeod, Jeanette	103	105 00	Romkey, Mary C	102	45 00
	Hewitt, M. C.	103	90 00	Ritcey, Geraldine Rodenheiser, Lettie Romkey, Mary C. Silver, Florence	100	45 00
		100	. 50 00	Sirver, Florence	103	70 80
	Rafuse, Gertrude	700	<b>75 00</b>	Smith, Eva M.	98	42 00
		700	יט טו	Sinth, Eva M.	98	42 80 42 80
	Bailley, Hazel	700	57 07	Smith, Lola	98 98	42 80
	Bailley, Hazel Berringer, Ross	98 98	יט טו	Smith, Lola	98 98	42 80
	Bailley, Hazel Berringer, Ross	98 98	57 07 57 07	Smith, Eva M. Smith, Lola Smith, Minnie B.	98 98 101	42 80 44 12 45 00
	Bailley, Hazel Berringer, Ross Bruhm, Muriel	98 98 103	57 07 57 07 60 00	Smith, Lola Smith, Minnie B. Spidle, Lillie	98 98 101 103	42 80 44 12 45 00
	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A.	98 98 103 103	57 07 57 07 60 00	Smith, Lola Smith, Minnie B. Smith, Minnie B. Spidle, Lillie Tobin, Filen M	98 98 101 103	42 80 44 12 45 00
	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A.	98 98 103 103	57 07 57 07 60 00	Smith, Lola Smith, Minnie B. Smith, Minnie B. Spidle, Lillie Tobin, Filen M	98 98 101 103 103	42 12 44 12 45 00 45 00
	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C.	98 98 103 103 98	57 07 57 07 60 00	Smith, Lola Smith, Minnie B. Smith, Minnie B. Spidle, Lillie Tobin, Filen M	98 98 101 103 103	42 12 44 12 45 00 45 00 45 00
	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha	98 98 103 103 98	57 07 57 07 60 00	Smith, Eva M. Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera	98 98 101 103 103	42 12 44 12 45 00 45 00 45 00
	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet	98 98 103 103 98 98	57 07 57 07 60 00	Smith, Eva M. Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera	98 98 101 103 103	42 12 44 00 45 00 45 00 45 00
•	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet	98 98 103 103 98 98	57 07 57 07 60 00 60 00 57 07 57 07	Smith, Eva M. Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera Warner, Emma L.	98 98 101 103 103	42 12 44 00 45 00 45 00 45 00 45 00
	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet	98 98 103 103 98 98	57 07 57 07 60 00 60 00 57 07 57 07 57 07	Smith, Lola Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera Warner, Emma L. Wentzell, Lois	98 98 101 103 103	42 12 44 00 45 00 45 00 45 00 45 00 45 00
•	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet	98 98 103 103 98 98	57 07 57 07 60 00 60 00 57 07 57 07 57 07 60 00 60 00	Smith, Eva M. Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera Warner, Emma L. Wentzell, Lois Young, Edith	98 98 101 103 103	42 12 44 00 45 00 45 00 45 00 45 00 45 00
	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet Knickle, Kathleen Millett, Susie	98 98 103 103 98 98 98 103 103	57 07 60 00 60 00 57 07 57 07 57 07 60 00 60 00	Smith, Eva M. Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera Warner, Emma L. Wentzell, Lois Young, Edith	98 98 101 103 103	42 12 44 00 45 00 45 00 45 00 45 00 45 00
•	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet Knickle, Kathleen Millett, Susie	98 98 103 103 98 98 98 103 103	57 07 60 00 60 00 57 07 57 07 57 07 60 00 60 00	Smith, Eva M. Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera Warner, Emma L. Wentzell, Lois Young, Edith Young, Eldora	98 101 103 103 103 103 103 103 103 103 103	42 12 44 000 00 45 000 45 00 45 00 45 00 45 00
•	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet Knickle, Kathleen Millett, Susie	98 98 103 103 98 98 98 103 103	57 07 60 00 60 00 57 07 57 07 57 07 60 00 60 00	Smith, Eva M. Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera Warner, Emma L. Wentzell, Lois Young, Edith Young, Eldora Zwicker, Rohda	98 98 101 103 103 103 103 103 103 103 103	42 12 44 000 00 45 000 45 00 45 00 45 00 45 00
•	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet Knickle, Kathleen Millett, Susie Rafuse, Eva Ritcey, Lillas Ritcey, Winnie	98 98 103 103 98 98 98 103 103 98	57 07 60 00 60 00 57 07 57 07 57 07 60 00 60 00	Smith, Lola Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera Warner, Emma L. Wentzell, Lois Young, Edith Young, Eldora Zwicker, Rohda *Allen, Christia	98 98 101 103 103 103 103 103 103 103 103	42 12 44 10 45 00 45 00 45 00 45 00 45 00 45 00
•	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet Knickle, Kathleen Millett, Susie Rafuse, Eva Ritcey, Lillas Ritcey, Winnie	98 98 103 103 98 98 98 103 103 98	57 07 60 00 60 00 57 07 57 07 57 07 60 00 60 00 57 07 60 00	Smith, Lola Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera Warner, Emma L. Wentzell, Lois Young, Edith Young, Eldora Zwicker, Rohda *Allen, Christie	98 98 101 103 103 103 103 103 103 103 103 103	42 120 44 000 45 000
•	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet Knickle, Kathleen Millett, Susie Rafuse, Eva Ritcey, Lillas Ritcey, Winnie	98 98 103 103 98 98 98 103 103 98	57 07 60 00 60 00 57 07 57 07 57 07 60 00 60 00 57 07 60 00	Smith, Lola Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera Warner, Emma L. Wentzell, Lois Young, Edith Young, Eldora Zwicker, Rohda *Allen, Christie	98 98 101 103 103 103 103 103 103 103 103 103	42 120 44 100 45 000 45 000
•	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet Knickle, Kathleen Millett, Susie Rafuse, Eva Ritcey, Lillas Ritcey, Winnie	98 98 103 103 98 98 98 103 103 98	57 07 60 00 60 00 57 07 57 07 57 07 60 00 60 00 57 07 60 00	Smith, Lola Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera Warner, Emma L. Wentzell, Lois Young, Edith Young, Eldora Zwicker, Rohda *Allen, Christie	98 98 101 103 103 103 103 103 103 103 103 103	42 120 44 100 45 000 45 000
•	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet Knickle, Kathleen Millett, Susie Rafuse, Eva Ritcey, Lillas Ritcey, Winnie	98 98 103 103 98 98 98 103 103 98	57 07 60 00 60 00 57 07 57 07 57 07 60 00 60 00 57 07 60 00	Smith, Lola Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera Warner, Emma L. Wentzell, Lois Young, Edith Young, Eldora Zwicker, Rohda *Allen, Christie	98 98 101 103 103 103 103 103 103 103 103 103	42 120 44 100 00 00 00 00 00 00 00 00 00 00 00 00
•	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet Knickle, Kathleen Millett, Susie Rafuse, Eva Ritcey, Lillas Ritcey, Winnie	98 98 103 103 98 98 98 103 103 98	57 07 60 00 60 00 57 07 57 07 57 07 60 00 60 00 57 07 60 00 57 07 60 00 57 07	Smith, Lola Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera Warner, Emma L. Wentzell, Lois Young, Edith Young, Eldora Zwicker, Rohda *Allen, Christie	98 98 101 103 103 103 103 103 103 103 103 103	42 10 44 10 45 00 45 00
•	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet Knickle, Kathleen Millett, Susie Rafuse, Eva Ritcey, Lillas Ritcey, Winnie	98 98 103 103 98 98 98 103 103 98	57 07 60 00 60 00 57 07 57 07 57 07 60 00 60 00 57 07 60 00 57 07 60 00 57 07	Smith, Lola Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera Warner, Emma L. Wentzell, Lois Young, Edith Young, Eldora Zwicker, Rohda *Allen, Christie	98 98 101 103 103 103 103 103 103 103 103 103	42 10 44 10 45 00 45 00
•	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet Knickle, Kathleen Millett, Susie Rafuse, Eva Ritcey, Lillas Ritcey, Winnie	98 98 103 103 98 98 98 103 103 98	57 07 60 00 60 00 57 07 57 07 57 07 60 00 60 00 57 07 60 00 57 07 60 00 57 07 60 00 57 07 60 00	Smith, Lola Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera Warner, Emma L. Wentzell, Lois Young, Edith Young, Eldora Zwicker, Rohda *Allen, Christie	98 98 101 103 103 103 103 103 103 103 103 103	42 10 44 10 45 00 45 00
•	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet Knickle, Kathleen Millett, Susie Rafuse, Eva Ritcey, Lillas Ritcey, Winnie	98 98 103 103 98 98 98 103 103 98	57 07 60 00 60 00 57 07 57 07 57 07 60 00 60 00 57 07 60 00 57 07 60 00 57 07 60 00 57 07 60 00	Smith, Lola Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera Warner, Emma L. Wentzell, Lois Young, Edith Young, Eldora Zwicker, Rohda *Allen, Christie	98 98 101 103 103 103 103 103 103 103 103 103	42 10 44 10 45 00 45
•	Bailley, Hazel Berringer, Ross Bruhm, Muriel Chesley, Mary A. Hebb, Bessie C. Herman, Bertha Holder, Harriet Knickle, Kathleen Millett, Susie Rafuse, Eva Ritcey, Lillas Ritcey, Winnie	98 98 103 103 98 98 98 103 103 98	57 07 60 00 60 00 57 07 57 07 57 07 57 07 60 00 57 07 60 00 57 07 60 00 57 07 60 00 57 07 60 00	Smith, Lola Smith, Lola Smith, Minnie B. Spidle, Lillie Tobin, Ellen M. Tobin, Mary E. Wamback, Vera Warner, Emma L. Wentzell, Lois Young, Edith Young, Eldora Zwicker, Rohda *Allen, Christie	98 98 101 103 103 103 103 103 103 103 103 103	42 44 45 000 000 000 000 000 000 000 000 0
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Feener, Gladys	103	30 00	Zinck, Austin	103	60 00
Feener, Lettie	109	24 46	Zwicker, Flora	103	60 00
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Green, Elizabeth Hebb, Beatrice	50	29 70	Mills, Mary E.	103	45 00
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Hilton, Muriel	55 93	27 08	Zinck, Sydney Aalders, Jesse M.	109	45 00
Himmelman, Carrie Hirtle, Gladys	74	21 55	Rookman Ollo	109	26 21
Hirtle, Gladys Johnson M.	70	23 00	Backman, Ollo	109	30 00
Johnson, Mary Kaulhack, Division	103	30 00	Boylan, Alice E. *Corkum, Ethel M.	89 50 103 103	25 91 19 41
Kaulback, Birdie Kaulback, Birdie Kaulback, Ruby Keddy, Pearl	103	30 00	Corkum Mildred	102	
Kaulback, Ruby	103 103 82 103 103	30 00	Corkum, Mildred Corkum, Minnie	100	30 00 30 00
Keddy, Pearl Kennedy, 1	82	23 88	Etter, Coraline	103 101	29 41
ennedy, Lois	103	20 00	Fleet, Cora D.	101	29 70
Kennedy, Pearl Kennedy, Lois Knickle, Jennie Lantz, Hazel Mailman, Violet	103	30 00	*Gray, Nellie	102	33 39
Mantz, Hazel	89	34 56	Hawboldt, Ida E.	109	90 00
*Mailman, Violet	12	3 49	Hiltz, Karl M.	100 100	30 00 30 00
Morgan, Frances	89	34 56	Hyeon A F	54 109	24 46
Morgan, Percy	102	30 00	Keddy Sadia	100	29 70
Knickle, Jennie *Lantz, Hazel Mailman, Violet *Morgan, Frances Morgan, Sadie Morton, Daisy Mossman, Ada Mossman, Cora McGuire, Mary T. Naugler, Emma Parks, Jennie Rafuse, Margaret Saltman, Ernst Sarty, Eva	100	30 00	Hyson, A. E. Keddy, Sadie Kilkup, Edith Lantz, Verta	101 102 86 103 103 84 102 103 98	30 00
Morton, Daisy	62	18 05	Lantz, Verta	103	28 53
Mossman, Ada	103	30 00	Millett John S	96	28 53
Mossman, Cora	103	30 00	*Murphy Duth	96	$\frac{26}{37} \frac{33}{28}$
No Wary T.	103	30 00	*Phillips Winifred	21	31 45
paugler, Emma	78	22 71	Rafues Subil	102	30 00
Roses, Jennie	103	30 00	*Ruscall Harriotta	100	7 77
Saluse, Margaret	103	30 00	*Spidell Sadie M	94	36 50
Samman, Ernst	108	30 00	Wentzell Elsio W	109	30 00
Solly, Eva	98	28 53	Zinek Lessie W.	100	30 00
Naugler, Emma Parks, Jennie Rafuse, Margaret Saltman, Ernst Sarty, Eva Schrader, Carrie Simpson, Edith M. Sperry, Rhoda Slauenwhite, Florence Smith, Ada Strumm, Emma *Thompson, Albertha Veinot, Lillian Walters, Margaret Westhaver Jennie	98	28 53	Lantz, Verta Millett, John S. *Murphy, Ruth *Phillips, Winifred Rafuse, Sybil *Russell, Harrietta *Spidell, Sadie M. Wentzell, Elsie W. Zinck, Jessie Zwicker, Bessie	103	30 00
Spenson, Edith M	84	24 46		100	30 00
Slavy, Rhoda	103	30 00		_	
Smill white. Florence	92	26 79			
Str., Ada	103	20 00 :	PICTO	Ű.	
The The	103	30 00		-	
Vein pson, Albertha	103	40 00	East.		
Walters, Margaret	103	30 00			
Westhaver, Jennie Wentzell, Edith	89	25 91	MacLeod, John T.	103	105 00
	103 103	30 00	Baillie, A. G.	98	71 32
	103	90 00 1	Hunt C E	98 98	$71 \ 32$
W. Hisie	98	38 06	Skinner, L. R.	98	71 32
WED TATELVIII	78	30 29	Scott, Margaret	98	71 32
Wentzell, Melvin Wentzell, Sadie Wharton, Zolla	102	29 70	Amos, R. Maud	103	60 00
Wharton, Zella Wile, Dora	78 102 99	28 82	Skinner, L. R. Scott, Margaret Amos, R. Maud Bannerman, Margaret Ballom, L. S. Ballantyno, Foetbor	98	57 07
Whynora	103	30 00 i	Balcom, L. S.	98	57 07
Whynot, Katic Wolfe, Beatrice Wolfe, Blanch	103 103 103 103 103		Ballantyne, Esther	103	60 00
Wolfe, Deatrice	103	30 00	Clarke, Adelia	98	57 07
Wolfe, Beatrice Young, Amy Zinck, Sadie	103	30 00	Fraser, Margaret	98 98	57 07
Zinck, Sadie	74	21 55	Fraser, Margaret Fraser, M. Louise Grant, Maria	98	57 07
-, Sadie	40		Grant, Maria	103	60 00
			Grant, Clara A.	103	60 00
Annuitar	its.		Guild, Lulu J.	96	55 91
Riser, Don't			Grey, Maude	98	57 07
Riser, Daniel		60 00	Lent, F. I.	98	57 07
James		45 00	MacBean, Jennie	103	60 00
		45 00	MacKay, Robetta	98	57 07
Heckman, A. W. Raulbach I	1	30 00	Macpherson, Eliza	98	57 07
Raulbach, Laura		30 Ò0	MacLean, Sarah E.	98	57 07
	-		Macleod, Isabelle E.	103	60 00
<b>~</b> 1			McLean, Cassie	98	57 07
Chester	·•	1	Munn, Nina	98	57 07
Harvey, Bossia			Murdoch, Louisa M.	103	60 00
Harvey, Bessie Hill, Clara J.	103	60 00	Murray, Sadie	98	57 07
J.	103	60 00	Ogilvie, A. Marie	103	60 00
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Oulton, Millage	103	60 00	MacQueen, Susan R.	103	30 00
Russell, Martha	98	57 07	MacQueen, Margaret J.	103	20 00
Ruggles, A. J.	103	60 00	MacWilliam, Jessie	103	30 00
Savage, Martha	103	60 00	MacNeil, Mary A.	102	29 70
Thompson, Elizabeth	98	57 07	Meikle, Anna B.	102	29 70 28 53
Williams, Marguerite	103	60 00	Mills, Martha	98	30 00
Archibald, Ann Archibald, Caroline	97	42 37 42 80	Munro, C. Tena	103	26 21
Ballantyne, Jean	$\begin{array}{c} 98 \\ 103 \end{array}$	45 00	Muir, Jennie Ross, Christena	90	25 33
Bryden, Myra	98	42 80	Ross, Christena Ross, Isabella C.	87 98	98 53
Crockett, Annie C.	103	45 00	Sinclair, Christy	96	27 90
Chisholm, Mary M.	98	42 80	Smith, Clara	103	20.00
Chisholm, Florence	98	42 80	Sutherland, Jean	89	9K 91
Doull, Eva C.	102	44 56	Wilson, Jean	89	25 91
Flynn, Sadie	103	45 00	, <del>,</del>		
Keith, Sylvia	103	45 00	In Poor Sec	tions.	
Luscombe, Annie MacDonald, Ada	95	41 49	A 131 11 G 77	40	26 79
MacGillivray, Jane	$\begin{array}{c} 103 \\ 98 \end{array}$	$\begin{array}{ccc} 45 & 00 \\ 42 & 80 \end{array}$	Archibald, Geo. H.	69	24 56
MacKay, Ethel J.	103	45 00	Cruickshank, Alice	<b>89</b>	9A 29
MacKenzie, Christina	103	45 00	Campbell, Roberta Fraser, Ethel	78 79	90 D0
MacKenzie, Charlotte	98	42 80	Fraser, Barbara	89	04 00
MacKenzie, Emma	102	44 56	MacDonald, Ella M.	89	34 PD
MacKnight, Jessie	103	45 00	Mackay, Helen H.	90	04 90
MacLeod, Bessie	103	45 00 31 44	MacKay, Ella M.	97	37 67
MacLean, Margaret	72	31 44		101	39 22
MacNutt, Elsie	103	45 00	McHardy, A. W.	102	39 61 30 29
Maxwell, Bessie B. MacMillan, Anabelle	98 29	42 80	Reeves, Margaret	78	32 62
Mitchell, Jennie	103	12 66 45 00	Sillers, Annie F.	84	38 06
Munro, Annie W.	102	44 56	Sutherland, Hattie	98	00
Patterson, Margaret	98	42 80	Consolidated S	Sala ala	
Robertson, Sarah E.	103	45 00	Consultated	ocuoois.	م ب
Robertson, Susie	98	42 80	Browns Mountain	98	28 58
Sutherland, Janie	103	45 00	Ardness,	98	28 53
Sutherland, Lexie	103	45 00	•	•••	
Sutherland, Mary	103	45 00	Annuitan	ts.	
Turner, Christina Walker, Jennie	103	45 00			45 00
Ballantyne, Agnes	97	42 37	Cameron, Jessie		45 00
Calder, Elsie	$\begin{array}{c} 103 \\ 103 \end{array}$	30 00 30 00	Cruikshank, Jessie		45 00
Cameron, Hannah	103	30 00	Ross, Maggie		•
Crooks, Helena	89	25 91	West.		
Chisholm, Elizabeth	102	29 70	, West.		- 11
Cameron, Jennie	97	28 24	Frasser, W. P.	78	68 14
Coulter, Gladys	102	29 70	inglis, R. E.	98	85 69 17 46
Dunlavy, Jennie Fraser, Alice E.	84	24 46	MacDonald I Crerar	20	74 25
Fullerton, Irene	103 89	30 00 25 91	Widchay Annia	102	ומ מת
Gray, K. Herbert	77	22 42	waciellan Robt	98 98	an DV
Higson, Mary	103	30 00	Mussells, H. H. MacRae, Muriel	-	
Henghen, Eleanor				103	60 00
Johnston, Evelyn,	103	30 00	Ballantuna I 34	4 00	DV 74
	103 69	$\frac{30}{20} \frac{00}{09}$	Danantyne Ina M	103	54 14
Kennedy, Sarah, C.	103 69 89	$\begin{array}{ccc} 30 & 00 \\ 20 & 09 \\ 25 & 91 \end{array}$	Johnson, Louise A. MacArthur, Olive	93	54 41
Kennedy, Sarah, C. MacDonald, Annie M.	103 69 89 87	30 00 20 09 25 91 25 33	Johnson, Louise A. MacArthur, Olive Murray, Christene	93 102	59 41 60 00
Kennedy, Sarah, C. MacDonald, Annie M. MacDonald, Katherine	103 69 89 87 103	30 00 20 09 25 91 25 33 30 00	Johnson, Louise A. Johnson, Louise A. MacArthur, Olive Murray, Christene Ogilvie, Estello	93 102 103	59 41 60 00 60 00
Kennedy, Sarah, C. MacDonald, Annie M. MacDonald, Katherine MacDonald, Margaret	103 69 89 87 103 103	30 00 20 09 25 91 25 33 30 00 30 00	Johnson, Louise A. Johnson, Louise A. MacArthur, Olive Murray, Christene Ogilvie, Estelle Reeves, Annie W	93 102	59 41 60 09 60 41
Kennedy, Sarah, C. MacDonald, Annie M. MacDonald, Katherine MacDonald, Margaret Macdonald, Anna	103 69 89 87 103 103	30 00 20 09 25 91 25 33 30 00 30 00 30 00	Johnson, Louise A. Johnson, Louise A. MacArthur, Olive Murray, Christene Ogilvie, Estelle Reeves, Annie W. Sutherland, Stelle	93 102 103 103 102 103	59 41 60 00 60 41 60 00
Kenucdy, Sarah, C. MacDonald, Annie M. MacDonald, Katherine MacDonald, Margaret Macdonald, Anna MacKay, Ella	103 69 89 87 103 103 103 83	30 00 20 09 25 91 25 33 30 00 30 00 30 00 24 17	Johnson, Louise A. Johnson, Louise A. MacArthur, Olive Murray, Christene Ogilvic, Estelle Reeves, Annie W. Sutherland, Stella Brown, Isabelle	93 102 103 103 102 103 98	54 41 59 00 60 00 59 00 41 60 42 60 42 45
Kenucdy, Sarah, C. MacDonald, Annie M. MacDonald, Katherine MacDonald, Margaret Macdonald, Anna MacKay, Ella MacKay, Margaret	103 69 89 87 103 103 103 83	30 00 20 09 25 91 25 33 30 00 30 00 30 00 24 17 25 91	Johnson, Louise A.  MacArthur, Olive Murray, Christene Ogilvie, Estelle Reeves, Annie W. Sutherland, Stella Brown, Isabelle Collie, Annie M.	93 102 103 103 102 103 98 103	54 41 59 00 60 00 59 00 60 80 42 00 45 80
Kennedy, Sarah, C. MacDonald, Annie M. MacDonald, Katherine MacDonald, Margaret Macdonald, Anna MacKay, Ella MacKay, Margaret MacIver, Dolina	103 69 89 87 103 103 103 83 89	30 00 20 09 25 91 25 33 30 00 30 00 30 00 24 17 25 91 25 91	Johnson, Louise A. MacArthur, Olive Murray, Christene Ogilvie, Estelle Reeves, Annie W. Sutherland, Stella Brown, Isabelle Collie, Annie M. Davis, E. Ross	93 102 103 103 102 103 98 103 98	54 41 59 00 60 00 59 41 60 80 42 80 42 12
Kennedy, Sarah, C. MacDonald, Annie M. MacDonald, Katherine MacDonald, Margaret Macdonald, Anna MacKay, Ella MacKay, Margaret MacIver, Dolina MacKenzie, Ethel	103 69 89 87 103 103 103 83	30 00 20 09 25 91 25 33 30 00 30 00 30 00 24 17 25 91 30 90	Johnson, Louise A. Johnson, Louise A. MacArthur, Olive Murray, Christene Ogilvie, Estelle Reeves, Annie W. Sutherland, Stella Brown, Isabelle Collie, Annie M. Davis, E. Ross Fox, Stella	93 102 103 103 102 103 98 103 98 101	54 41 59 00 60 00 59 00 60 42 80 42 12 44 56
Kennedy, Sarah, C. Mac Donald, Annie M. Mac Donald, Katherine Mac Donald, Margaret Macdonald, Anna Mac Kay, Ella Mac Kay, Margaret Maclver, Dolina Mac Kenzie, Ethel Mac Kinnon, Catherine Mac Lean, Estelle	103 69 89 87 103 103 103 83 89 89	30 00 20 09 25 91 25 33 30 00 30 00 30 00 24 17 25 91 30 00 28 53 14 56	Johnson, Louise A. MacArthur, Olive Murray, Christene Ogilvie, Estelle Reeves, Annie W. Sutherland, Stella Brown, Isabelle Collie, Annie M. Davis, E. Ross Fox, Stella Fraser, Elsie C.	93 102 103 103 102 103 98 103 98 101 102	54 41 59 00 60 00 59 00 42 00 42 12 44 56
Kennedy, Sarah, C. Mac Donald, Annie M. Mac Donald, Katherine Mac Donald, Margaret Macdonald, Anna Mac Kay, Ella Mac Kay, Margaret Maclver, Dolina Mac Kenzie, Ethel Mac Kinnon, Catherine Mac Lean, Estelle	103 69 89 87 103 103 103 83 89 103 98 50	30 00 20 09 25 91 25 33 30 00 30 00 30 00 24 17 25 91 25 91 30 00 28 53 14 56 30 00	Johnson, Louise A. MacArthur, Olive Murray, Christene Ogilvie, Estelle Reeves, Annie W. Sutherland, Stella Brown, Isabelle Collie, Annie M. Davis, E. Ross Fox, Stella Fraser, Elsie C. Fraser, Katherine	93 102 103 103 102 103 98 103 98 101 102 102	54 10 59 40 60 00 60 00 59 00 42 00 42 00 42 44 56 44 56 45 00
Kennedy, Sarah, C. MacDonald, Annie M. MacDonald, Katherine MacDonald, Margaret Macdonald, Anna MacKay, Ella MacKay, Margaret MacIver, Dolina MacKenzie, Ethel MacKinnon, Catherine MacLean, Estelle MacLellan, Barbara MacLeod, Dolina J.	103 69 89 87 103 103 103 83 89 103 98 50 103 103	30 00 20 09 25 91 25 33 30 00 30 00 30 00 24 17 25 91 30 00 28 53 14 56 30 00 30 00	Johnson, Louise A. MacArthur, Olive Murray, Christene Ogilvie, Estelle Reeves, Annie W. Sutherland, Stella Brown, Isabelle Collie, Annie M. Davis, E. Ross Fox, Stella Fraser, Elsie C. Fraser, Katherine Haley, Mary Harris, Annie.	93 102 103 103 102 103 98 103 98 101 102	54 41 59 00 60 00 59 00 60 80 42 80 44 156 44 156 44 45 44 44 56
Kenucdy, Sarah, C. Mac Donald, Annie M. Mac Donald, Katherine Mac Donald, Margaret Macdonald, Anna Mac Kay, Ella Mac Kay, Margaret Maclver, Dolina Mac Kenzie, Ethel Mac Kinnon, Catherine MacLean, Estelle MacLellan, Barbara	103 69 89 87 103 103 103 83 89 103 98 50	30 00 20 09 25 91 25 33 30 00 30 00 30 00 24 17 25 91 25 91 30 00 28 53 14 56 30 00	Johnson, Louise A. MacArthur, Olive Murray, Christene Ogilvie, Estelle Reeves, Annie W. Sutherland, Stella Brown, Isabelle Collie, Annie M. Davis, E. Ross Fox, Stella Fraser, Elsie C. Fraser, Katherine Haley, Mary	93 102 103 103 102 103 98 103 98 101 102 102 103	54 10 59 40 60 00 60 00 59 00 42 00 42 00 42 44 56 44 56 45 00

MacKay, Lena MacKay, A	100	43 68	Coulton Christina	100	75.00
MacKay, A. Olivia	103	45 00	Coulter, Christina   Baltzar, Mary	103	75 00
MacKay, Beatrice	103	15 00	Freeman, Winnie	$\begin{array}{c} 103 \\ 103 \end{array}$	60 00
MacLeod, Annie M.	102	44 56	Ford, Gertrude	103	60 00 60 00
MacIntosh, Jennie MacLellan, Charle	88	38 43	Harrington, E. B.	103	60 00
MacLellan, Charlotte	101	44 12	Harrington, Georgie	103	60 00
MacTavish, Elizabeth	98	$42\overline{80}$	Hatt, Laura	103	60 00
McGirr, Gertrude	73	31 88	Mader, Annie A.	103	60 00
McCunn, Isabel	103	45 00	Patterson, Cordelia	102	59 41
McInnes, Anna Moore, M	102	44 56	Wylde, Mary A.	103	60 00
Moore, Maude Murray Chair	103	45 00	Freeman, Allene	103	45 00
Murray, Christene Patterson E H	103	45 00	Freeman, Nellie B.	103	45 00
Patterson, F. H.	103	45 00	Hartlen, Ida	103	45 00
Payne, Sadie A.	101	44 12	Huskins, Pearl	102	44 56
Rose, Jessie F. Rogers Marie	103	45 00	Kempton, Abbie	103	45 00
Rogers, Marion	103	45 00	Mack, Theresa	103	45 00
Ross, Annie M.	103	45 00	McGinty, Katherine	103	45 00
Sutherland, Mina Brown May P	102	44 56	MacQuarrie, Gladys	103	45 00
Clarks Way K.	90	26 21	Reinhardt, Mildred	91	39 75
Clarke, Mary O.	103	30 00	Spurr, Annie M.	102	44 56
CreinL	102	29 70	Brannen, Ruby	32	9 31
Elliotte, Maymie	88	<b>25</b> 62	Gaskill, Emma	78	22 71
Hamita L.	102	29 70	Gerhardt, Francis	89	25 91
Johnson, Warv	74	21 55	*Gibbons, James M.	103	40 00
Langin", Cillian	99	28 82 .	Godfrey, Bessie	103	30 00
Langili, Lightes	89	25 91	*Harlow, Emma	90	<b>34 95</b>
Langitt's Mapel	101	29 41	Hiltz, Elizabeth	103	30 00
Mach Traily D.	89	25 91	Hunt, Gladys	102	29 70
Wants Jenne II.	82	23 88	Hupman, Effie R.	103	30 00
Wianty of Jennie Wi.	55	16 01	*Latham, Hattie	94	36 50
	103	30 00	Mack, Winifred	94	27 37
diant, C. Datelle	89	25 91	Mackay, Gertrude	102	29 70
	69	20 09	MacLeod, Annie W.	102	29 70
Maco - Trotelice	96	27 95	Oxner, R. E.	14	4 07
	102	29 70 29 41	Pierce, Margaret J.	$\begin{array}{c} 94 \\ 102 \end{array}$	27 `37 29 70
	101 89	25 41 25 91	Rhynard, Gertrude *Wamback, Myrtle	103	40 00
	103	30 00	wamback, myrtie	100	40 00
Munro, Edna M. Munro, W.F.	68	19 79	North.		
Munro, Edna M. Reid, Cathori	103	30 00			
Reid, Catherine	97	28 24	Acker, Hattie	103	60 00
Sutherland, Blanche	102	29 70	Fancy, Lydia	102	59 41
4 Signence	10.	20 10	Freeman, Nettie	98	57 07
In Poor Sec	tions.			98	57 07
Crains			Ramey, Jessie M. Weldon, Alice C.	103	60 00
MacKay, Annie C.	89	34 56	Ennis, Hilda B.	102	44 56
MacO Althre	103	40 00	Feindell, Hilda M.	75	21 84
	83	32 23	Fransel, Letitia	103	30 00
	103	40 00	Hartlen, Maud	102	29 70
Murray, Grace A.  Sutherland	103	40 00	*Kaulbach, Louise	84	32 62
Sutherland, Lexie	80	31 06	Kempton, Florence	102	29 70
Lexie	70	27 18	*MacNair, Lelia	71	$\frac{23}{27}$ 57
			*Rhynard, Alma	82	31 84
ř.			·- /		30 00
A • •	nts.		Smith, Henrietta	109	90 UU
Fran Annuitar	nts.		Smith, Henrietta	103 102	
Fraser, William	nts.	60 00	Smith, Henrietta Snow, Florence Blackman, Winifred		29 70 28 24
Fraser, William Gollan, John	nts.	60 00 60 00	Smith, Henrietta Snow, Florence Blackman, Winifred	102	29 70
Annuitar Fraser, William Gollan, John MacKay, John	nts.		Smith, Henrietta Snow, Florence	102 97	29 70 28 24
Annuitar Fraser, William Gollan, John MacKay, John	nts.	60 00	Smith, Henrietta Snow, Florence Blackman, Winifred	102 97	29 70 28 24
Annuitar Fraser, William Gollan, John MacKay, John	nts.	60 00 60 00	Smith, Henrietta Snow, Florence Blackman, Winifred *Bayers, Olivia	102 97 89	29 70 28 24 34 56
Fraser, William Gollan, John		60 00 60 00 60 00	Smith, Henrietta Snow, Florence Blackman, Winifred *Bayers, Olivia  RICHMON	102 97 89	29 70 28 24 34 56
Fraser, William Gollan, John MacKay, John McArthur, Alex. McDonald, D. W.	vs.	60 00 60 00 60 00	Smith, Henrietta Snow, Florence Blackman, Winifred *Bayers, Olivia  RICHMON Maxwell, Margaret Lola	102 97 89 ID.	29 70 28 24 34 56
Fraser, William Gollan, John MacKay, John McArthur, Alex. McDonald, D. W.  QUEEN	vs.	60 00 60 00 60 00	Smith, Henrietta Snow, Florence Blackman, Winifred *Bayers, Olivia  RICHMON Maxwell, Margaret Lola Beranger, Alvina	102 97 89 ID.	29 70 28 24 34 56 105 00 57 07
Annuitar Fraser, William Gollan, John MacKay, John McArthur, Alex. McDonald, D. W.  QUEEN South	vs.	60 00 60 00 60 00 60 00	Smith, Henrietta Snow, Florence Blackman, Winifred *Bayers, Olivia  RICHMON Maxwell, Margaret Lola Beranger, Alvina Bissett, Clara V.	102 97 89 ID. 103 98 103	29 70 28 24 34 56 105 00 57 07 60 00
Annuitar Fraser, William Gollan, John MacKay, John McArthur, Alex. McDonald, D. W.  QUEEN South	NS. 103	60 00 60 00 60 00 60 00	Smith, Henrietta Snow, Florence Blackman, Winifred *Bayers, Olivia  RICHMON  Maxwell, Margaret Lola Beranger, Alvina Bissett, Clara V. Boyd, Christina	102 97 89 ID. 103 98 103 103	29 70 28 24 34 56 105 00 57 07 60 00 60 00
Fraser, William Gollan, John MacKay, John McArthur, Alex. McDonald, D. W.  QUEEN	vs.	60 00 60 00 60 00 60 00	Smith, Henrietta Snow, Florence Blackman, Winifred *Bayers, Olivia  RICHMON Maxwell, Margaret Lola Beranger, Alvina Bissett, Clara V.	102 97 89 ID. 103 98 103	29 70 28 24 34 56 105 00 57 07 60 00

				The state of the s		22 00
	Grady, Alice Maud	103	60 00	MacRae, Jessie A.	85	33 00 39 61
	LeBlanc, Sabine Rose Sister Marie St. Firmine	103	60 00	Nicolle, Stanley P. Sutherland, Don. A.	102 97	~ <b>27</b> 67
	Boyd, Laura E.	103	45 00	Thibeau, P. Wilfrid	90	34 95
	Burke, Eva M.	103	45 00	Thibeau, Peter	97	37 67
	Burke, Hattie Mabel	103	45 00		_	
	Coffey, Julia B. Forgeron, Eva May	$\begin{array}{c} 101 \\ 103 \end{array}$	$\begin{array}{ccc} 44 & 12 \\ 45 & 00 \end{array}$	Annuitar Boyle, D. R.	nts.	60 00
	Hynes, M. Evangeline	46	20 08	McLeod, Malcolm		60 00
	LeBlanc, Marie M.	83	36 25		-	
	Leslie, Alfreda M.	98	42 80	SHELBUR	RNE.	
	McCuish, Dan A.	92	40 18	3771. 4. 37	100	105 00
	MacDougall, Margaret MacKillop, Ewen D.	$\begin{array}{c} 103 \\ 103 \end{array}$	$\begin{array}{c} 45 \ 00 \\ 45 \ 00 \end{array}$	MacLeod, A. N. Craigie, John A.	$\begin{array}{c} 103 \\ 102 \end{array}$	74 20
	MacLeod, Marie S.	103	45 00	Allen, Jane R.	102	60 00
	McLeod, Peter A.	93	40 62	Brannen, Lottie G.	102	59 41
	MacLeod, Tena H.	103	45 00	Capstick, Grace	100	58 25 60 00
	MacNeil, Florence	103	45 00	Freeman, Grace D.	103	60 00
	MacNeil, Margaret A. MacNeil, Minnie V.	103 103	$\begin{array}{ccc} 45 & 00 \\ 45 & 00 \end{array}$	Perry, Emma F.	103 103	ea uu
,	Mauger, Lena	103	45 00	Turner, Flora A. Allen, Iscilda V.	103	15 00
	Murphy, Margaret A.	103	45 00	Davis, Hattie H.	102	11 00
	Mury, Simon	103	45 00	Etherington, Lillian	103	45 00 45 00
	Nelson, J. Scott	89	38 87	Grant, Ellen	103	45 00
	Power, M. Gertrude	103	45 00	Grant, Estella	103	44 50
	Boucher, Mary M. Boyd, Florence C.	103 103	30 00   30 00	Hanley, Ruth H. Kean, Evelyn S.	$\begin{array}{c} 102 \\ 102 \end{array}$	44 00
	Brymer, Lottie M.	103	30 00	Kempton, Jessie	103	45 00
	Cameron, Katie A.	103	30 00	Lyle, E. R.	103	45 00 45 00
	Cameron, Henrietta J.	45	13 10	Nickerson, Charlotte	103	45 00
	Campbell, Alexander	86	25 04	Pennington, J. G.	103	45 00
	Campbell, Katie Cash, Elizabeth J.	98 64	28 53 18 63	Smith, Myrtle L.	103	of ALL
	Daigle, Joseph	103	30 00	Vance, Luther C. Crosby, Florence B.	17 87	25 33
	Etienne, George W.	103	30 00	Curry, Frank W.	$\frac{58\frac{1}{2}}{}$	
	Jackson, Annie J.	101	29 41	Devine, Harriet	19	5 52 28 24
	Johnston, Ethel	86	25 04	Firth, É. Louise	97	40 M
	DeRoche, Gertrude	103	30 00	Freeman, Louise	103	30 00
	Langley, Gertrude LeBlanc, Harriet A.	$\frac{98}{42}$	28 53	Golden, Lola D.	103	26 27
	LeBlanc, John H.	20	$\begin{array}{c c}13&10\\5&82\end{array}$	Hamilton, Mary A.	90 89	25 91
	MacDonald, Annie	103	30 00	Harding, A. C. Hemeon, W. B.	103	9V ~A
	MacDonald, Maisie	45	13 10	Hogg, Mrs. Laura	103	$\frac{30}{25} \frac{00}{91}$
	McDonald, Mary A.	` 82	23 88	Jones, E. Dora	. 89	24 40
	McDonald, Mary A. MacDonald, Neil E.	19 94	$\begin{array}{c c}5&52\\27&37\end{array}$	Laing, Isabel J.	84	29 10
	MacKichan, Annie I.	103	30 00	Lloyd, Florence V.	102 103	20 00
	McKillop, Kenneth A.	92	26 79	MacDonald, Kathleen MacKay, Margaret	99	28 82 28 53 28 00
	MacLean, Jessie Belle	108	30 00	Mackay Myrtle	98	30.00
	MacNeil, Mary Ella Maguire, Nola P.	103 98	30 00	wickenne. Lulu	103	30 V
	Mauger, Edmund	89	28 53 25 91	Wickerson (Frace I)	103	22 17
	Murphy, Frances	103	30 00	rentz, Arthur C	78	28 24 30 00 30 88
	Morrison, Ella H.	98	28 53	Perry, Lola E. Ross, Nora A.	$\begin{array}{c} 97 \\ 103 \end{array}$	30 88
	Ross, Finlay A.	88	25 62	Scott, Edna	58	16 88 30 00
	Ross, Jessie F.	15	4 36	Shupe, I. Maude	103	30 .
		103 103	30 00			
,	Sister Marie du Cenacle Sister Marie St. Yolande		30 00   30 00	In Poor Sect	tions.	£Q
			30 00	Colp, Alice M.	79	30 58 22 23
	In Poor Secti	ons.		Decker, Isabel J.	83	32 25 35 34
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Firth, Alice W.	103		Devean, Lillian May	74	<b>21</b> 55
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Wyman, C. W.	103	45 00	Pothier, Mrs. Martha	98	30 00
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[Final report of the Committee to the Provincial Education Association, August, 1912.]

#### COURSES OF STUDY IN THE COMMON SCHOOLS.

#### EDUCATIONAL AIMS AND VALUES.

Omitting consideration of the mysterious processes of physical and mental inheritance and of individual unfoldment, the object of education is to transmit to the young the best inheritances of our race and civilization: their religion, their moral and social order, their science and industry, their literature and their art. Not, however, merely to inform the child concerning these, but to actually and effectively adjust him to these conditions of our civilization.

It follows, therefore, that the school program should be no merely arbitrary or whimsical scheme of studies. On the contrary, it should definitely aim at bringing the child into intelligent, active, and purposeful relation with the world in which he is to live. There are, accordingly, two main considerations which determine the choice and development of the several courses of study, with their pedagogic selection of material and arrangement of topics, viz., the nature of the child, and the nature of the universe that surrounds him, material, social, and spiritual.

Since the child, even during his school days, is a member of the complex organization functioning as family, society, church, industrial and civil order, the teacher must regard the school not as an institution apart from these, but as their unifying and clarifying element. In other words, education, so far as the school undertakes to control and direct it, is the purposive effort to unify and to implement the ideals of home, of religion, of social and civic duty. From the school as a point of vantage, the child is to find his bearings in the vast universe; to take a fitting place there, not merely thru knowledge, but by virtue of feeling, willing and doing aright.

Thus, the teacher is entrusted with one of the most important of all offices in society. In the true sense, his work as an educator as distinguished from the mere administrator of a program, can hardly be said to begin until he realizes in some degree the grave responsibility of his task. Authority he has, in sufficient measure, both material and moral; for it is of universal remark in our public schools that to the child the teacher is the embodiment of an authority more constant, more persuasive, more compelling than either church, state, or perhaps even home. Happy the task then and happy the teacher, when the cares of his high office are assumed not lightly and indifferently, but with intelligence, devotion, and goodwill; where the tasks of each succeeding day are guided by an increasing knowledge of the

material, social, and spiritual order in which we are involved, by a clearer insight into the mysteries of child-life and growth, and by a consciousness of opportunity to correct and raise the standards of thought, feeling, and conduct in the little world of his school.

Growth in knowledge, in human sympathy, and in efficiency on the part of the teacher, is a condition vital to proper growth in the pupil. Where the teacher is content merely to add to his stock of facts, he is not growing in knowledge. What is essential to true knowledge is that he should relate these to his own life and needs or to those of his pupils. Equally so, in his endeavors to promote the growth of knowledge in the young, he must realize that the end is not attained thru blind conformity to the prescriptions of the program; for this practice, far too common, is in reality a teaching of subjects rather than of children, and it is this procedure which is largely responsible for the dispersed attention, want of confidence, feeble will, and slack morals so conspicuous in the poorly taught school.

Further, knowledge, of itself, is not education. It is only one of the elements in education. The mastery of military drill and tactics does not complete the education of a soldier. There may still be wanting resourcefulness, spirit, self-renunciation, will—in brief, the true personality of the soldier. Moreover, to children, the pursuit of knowledge is not in itself always interesting; and, without interest on the part of the pupil, his seeming acquisitions of knowledge will have little reality, little permanence.

Much has been said and written on the importance of personality in the teacher. Writing to a young friend who had recounted to him the new studies engaging her attention, Emerson suggested to her that it might not so much matter what subjects she studied as with whom she studied. Clearly, the great philosopher sought to emphasize the value of personality in the teacher.

What is personality? it will be asked. Without seeking to define it fully, it may be asserted that for his pupils a teacher has personality when he possesses manifest interests, and, above all, interests which he can impart to his pupils. Interest, as everybody knows, is infectious; there is in it something of the emotional element; and nothing is so readily and unconsciously communicable to others as are our emotional states. Given a teacher, therefore, who, himself interested seeks among his own interests a possible basis for those of childhood one is then safe to look for an attentive class. And, if attention can but be carried to the point where effort is necessary, well; for effort at attention is the essential element of will, of habit-forming, of character forming.

We are now in a position to ask: What is interest? How shall one command it?

The answer is not easy. Still, we know some important facts concerning the nature of interest. To the teacher, the most important of these is that interest, being partly an emotional state, cannot be

maintained, indeed, scarecly aroused in things which are foreign and unrelated to our experience or environment and to our desires immediate or remote. Such things the mind rejects either as unknowable or as matters of indifference. Once, however, the fact, phenomenon, or material thing can be referred to or compared to some past experience or present need, its strangeness lessens. It becomes partially known, being partially recognized. It begins to have an interest for the interest of our pupils, there is only one way to do it; and that is to make certain that they have something in their minds to attend with when we begin to talk. That something can consist in nothing but a previous lot of ideas.' Once a thing comes to be recognized,—that is, referred to some previous experience,—it is assigned a place in our mental life as an added experience assimilated to the mind-stuff already there, and enlarging by its presence our ability to interpret new experiences. Only such ideas as are cognate to the circle of thought in which we habitually move are assimilated or assimilable. "Ideas too alien, tho you shout them in the ear or thrust them in the face, remain foreign and incomprehensible."

This process of mind-growth is commonly spoken of as the apperceptive process. Our body of mental experiences and mental states derived partly thru contact with things, partly thru reading and hearing, comprizes the apperceiving mass which we bring to bear upon the interpretation of new experiences. And each added experience organized into the body of our mental life takes its place there not as a unit intelligence an increase of power to perceive, to feel, and to know.

The bearing of the doctrine of apperception upon educational aim method will be readily apprehended by the thoughtful teacher. Given possession of this interpretation of mental growth, he is bound to recognize with increasing clearness the process of education as providing the pupil with a stimulus to the appropriate exercise of his mental, emotional, and motor activities. To effect this, his instruction will in each lesson proceed from those past experiences of the sity or awaken feeling. Every lesson will seek to be "a renewal and an ledge, emotion, taste, will—which becomes, in other words, character and culture.

It is with this belief and upon this principle that the following program of studies has been framed. Much therein must necessarily be left to the teacher to interpret; and it is well that this should be so. To the intelligent and serious-minded it will be an all the more pleasing as to ensure the preparation of the several courses in such a way to create and foster the aptitude for work and for the intelligent use readily influenced by school life, such as loyalty to comrades and mind, unselfishness, and an orderly and disciplined habit of mind.

Let it be emphasized here that the value of any branch or lesson lies only partly in its direct, intrinsic utility. Over and above this there should be looked for an increased disposition in the pupil to act for himself and from his own initiative, not only in school problems but in all matters where some relation to the thing taught suggests itself. To take a simple illustration: A lesson on the life history of the cabbage-butterfly may have no direct value to the children of a fruit-growing district; but it is one that is very convenient to teach, and, when effectively taught, is fertile in suggestion of similar problems and study-processes; and the effectiveness of the teaching may be correctly measured by the intensity of the stimulus it applies to the study of related problems lying within the field of the child's interests and natural activities.

It is, indeed, in somewhat of this sense, that it is claimed for the common and high schools that they should in large measure function as the elementary technical schools of the province. There need be no antagonism to the purely cultural training which has so long dominated the school program. Vocational training is capable of being made, to a certain extent, cultural; just as a vocation is practised not in and for itself alone, but in all its relations and with all its implications, social, moral, domestic, and, sometimes, esthetic and traditional. Preparation for vocation, moreover, does not exclude direct and purposive efforts of a purely intellectual character. On the contrary, these must continue to form a considerable part of the program of school studies; for the intellectual, social, and spiritual qualities they are specifically designed to nourish will never cease to be regarded as the finest fruits of education.

What has been fundamentally lacking in the instruction of the common and high school is the disposition and the ability on the part of the teacher to take as the point of departure in any study the concrete example, the personal experience, of the pupil, that Something which the environment always provides, did we but see it as our pupil sees it, and as it relates to the principle sought to be established.

The old vogue of proceeding from the abstract principle too often resulted in the ignoring of the concrete application; for there is a fascination in the study of abstract principles which lures teacher and pupil to compass more of this unreal knowledge than can ever be verified in school practice or than is needed in the actual affairs of life. Thus, for example, very abstruse knowledge of the properties of circles and triangles is often acquired at school by pupils who have only the vaguest conception of how this knowledge becomes a factor in dealing with bodies with circular and triangular surfaces, such as discs, cones, cylinders, buildings, plots of land, etc.

And so one day the community wakes up to the necessity of opening special schools to teach the practice—that is, the purport of principles already skilfully taught, but in an unpractical and purportless way. The simple solution of a great deal of the difficulty proposed to be dealt with in night schools and other industrial schools is to develop in the common and high schools of the province more of

the method of the industrial and technical institute. For the ordinary mathematical problems of the smith, the carpenter and builder, the mason, etc., the common school and the lower grades of the high school ought to be made and can be made the industrial and technical schools of the province. They already profess to deal with a body of mathematics and science extensive enough to meet the requirements of those crafts: it remains, therefore, only to pay due regard to mathematics, drawing and science as actually related to them.

#### THE PROGRAM OF STUDIES.

In our opening paragraphs education is set forth in large as a process not confined to school-houses, teachers, and courses of study, but rather as the net outcome of the world's influence upon the individual in respect of the sort of character he has become, what he knows, and what he can do. To each individual it is permitted to enter upon the best inheritances of our race,—its religion, its social and moral order, its science, its industry, its art,—inheritances transmitted from age to age thru church, family, and society, and only partly thru the school and its appointed teachers.

So far as the school undertakes to discharge its duty to the young, it may be said to do so in a threefold way. It chooses three ends: the cultivation of character, of practical efficiency, and of know-To accomplish these aims, it proceeds not so largely thru the medium of positive instruction as thru that of the directed activities of the directed activities which spring from of the child, and, preferably, thru those activities which spring from impulse or from native interest. Such interests we speak of as spontance or from native interest. taneous; the corresponding activity we call, technically, self-activity. These terms are reserved for further interpretation in the chapter on

In order to arouse to activity the mind which it seeks to control, direct, and nourish, the school should carefully select from the realm of human affairs those subjects best fitted to awaken and maintain the child's interest and self-activity, and to contribute to its ideal developments are chosen from the domain of the useful, goes without saying; for it is generally conceded that the really useful is likely to provide the best medium for training that the really useful is likely to provide the best medium for training, the existence of an appropriate utility underlying the study contributing no little to its power of awaking and maintaining interest.

To clear away any possible obscurity in the use of the terms of the state that in the judgment of the educational world of today the proper justification of the presence of any educational world of today the proper justification of the presence of any subject or topic in the program of studies may be found in the answer subject or topic in the program of studies may be found in the answer to this question: Whether is the matter in question calculated to revolution. to reveal or contribute to reveal to the pupil some important aspect of his and or contribute to reveal to the pupil some important aspect of his and or contribute to reveal to the pupil some important aspect of his environment and to stimulate thereby desirable mental, emotional, to be important aspect of motor activity? If it is so calculated, then the knowledge sought to be important aspect of the pupil some important aspect of the to be imparted is not only useful but disciplinary, in the true sense of

On this basis it is quite safe to include in the program all the subjects herein treated. Not easy is it, however, to determine with general approval the topics and sub-topics of the several branches of study. Circumstances vary in different communities—circumstances of nature and of industrial and social environment; circumstances, too, of unequal capacity and training in teachers, many of whom will recoil from the very abundance of the prescriptions drawn up for the average or super-average school. For these and for the teachers of miscellaneous schools the courses require to be re-made in respect of the number and treatment of topics and sub-headings. Condensed courses will, accordingly, follow later.

To forestall a possible charge of presumption or of finality of tone in their utterances, the Committee to whom is entrusted the making of the program would state that, far from being satisfied with their work as here presented, they look to a prompt and continual amendment of the courses in keeping with the growing educational intelligence of teachers and public and with the changing conditions of our social and industrial life. Definiteness of prescription and of suggested treatment is unavoidable, but it should be borne in mind that there is no intention to supplant a good method and to limit the teacher to one mode of treatment. On the contrary, what has been aimed at is to suggest a treatment that will ensure flexibility and variety of method, and to offer such guidance as appears necessary to the less experienced So far as concerns topics and illustrations, the Comand resourceful. mittee would protest that these are infinite in number and variety. Each field of knowledge as represented in each of the subjects of the common school is boundless; and the teacher who is original enough and ambitious enough to desire to improve upon or to modify the selection of topics and illustrations offered in the several courses, may safely be trusted to do so. Such experimentation is, indeed, desirable: only thru it will a gradual perfection of the program be accomplished.

Adverting now to the several subjects or branches of the present program of studies it is well to remark of them that they comprize several quite different constituents of school-knowledge. It is possible, for example, to classify them on the twofold basis of "form studies and "content" studies. The distinction is an important one, and the more worthy of treatment here since the present generation has witnessed futile attempts on the part of reactionary teachers to oust from the elementary program practically everything except the "formal" facilities of reading, spelling, writing and arithmetic.

Now, the three R's, so called, while they are the invaluable instruments of education, are not in themselves educative. They represent merely the several skills or acquisitions that render true education possible of attainment. Of supreme value for the more ultimate purposes of life, they are of themselves empty of content and meaning. Hence it is that in schools where only the three R's are taught (and there are still many such schools) the child-mind starves. Instead of intellectual nourishment and stimulus to self-activity and growth, are provided puzzles in spelling, imitation of written forms, half meaningless vocables, processes in calculation known only in

their least interesting applications; in short, the acquisition of skills unlikely afterward to be turned to much account. Thus it is that the European peasant, compelled by law to learn to read, ceases to read once he leaves school. Thus, too, the Nova Scotian, drilled solely in the mechanics of reading, writing, and ciphering, has too often shown himself resourceless in the presence of diminishing fertility of soil and of changing industrial and economic conditions.

To compass the ends of true education, the school must provide an intellectual content from which the exercises in reading, writing, and arithmetic are to be drawn; and this content should not be circum-Scribed either by text-book or by tradition, but drawn from the whole realm of the child's activities, and, wherever possible, from matters dealt with in the other branches of school study. It will be found that even in the other branches of school steady. be the gainer by this procedure more than the he were kept solely at exercises in word-naming, penmanship, and abstract calculation. Not that drill in these exercises is to be abandoned. Quite the con-But the best results will follow when in addition to giving frequent drills for accuracy and speed, the teacher is careful to note errors of pronunciation, spelling, and expression occurring outside as well as with: within the special reading and spelling classes; when she sees to it that every written exercise in arithmetic, or composition, or whatever it may be, is a neat and legible effort; when the studies of the earth and man are made to furnish problems to corroborate and illustrate arithmetical principles likely otherwise to remain abstractions.. In brief, to guarantee antee a creditable output of the formal facilities of reading, writing, and arithmetic, the teacher must correlate these with the other activities of the school.

Accordingly, to fulfil the purposes of education, a program of but inter-related and coherent, indicating a unified educative process in fact, one of the basal principles upon which program and courses the guiding principles of the maker of school programs:

lst. That knowledge should be presented as unified, not dispersed, the various topics being as fully as possible correlated.

life and those occupations which the pupils are likely to pursue furnish traditionally consecrated to education.

that leave school at the sixth, seventh, or eighth grade, and should aim commerce, agriculture, and other great industries as to ensure on their capacity for further study.

Achool program, illustrations and applications should spring from the

present needs, interests, and environment of the pupils as well as from considerations of prospective utility.

- 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; 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 own concrete experiences to proceed to an interpretation of the material, social, and moral order in which he lives.
- 7th. That it is not prudent for a course of study to comprize only what the average child can fully retain in memory thruout the school period or even thruout the year.
- 8th. That the program and courses of study should be such, in content and treatment, as to ensure not merely the instruction but the education of the child in point of character, culture, and efficiency.

To frame courses of study in accordance with these principles, it is manifestly impossible to depend upon prescriptions made by reference to pages of tout had a page to page pag ence to pages of text-book. Prescription of the content of instruction should be made in terms absolute. To prescribe from books alone is should be made in terms absolute. to tempt the indolent teacher into substituting for instruction more of less mindless tasks of mamorials. The teacher who lacks initiative less mindless tasks of memorizing. and the ability easily to organize the information contained in the text, finds the more text book and the text, and finds the mere text-book prescription a partial justification for the treatment and the traditional question-and-answer methods. study of phenomena is supplanted by the study of books. is stifled by shutting up against the pupil original sources of knowledge and by leaving him unpracticed and by leaving him unpracticed and and by leaving him unpractised and ignorant in the art of acquiring knowledge except at second-hand, a condition of things still deplorably common in our schools, and one toward the correction of which the framer of courses of study should hard the correction of which it framer of courses of study should bend all his energies. For, while it would be the hight of folly to advance. would be the hight of folly to advocate dispensing with text-books of to underrate the ability to progree land an instance and the state of the stat to underrate the ability to procure knowledge thru reading, it must nevertheless be claimed that high efficient nevertheless be claimed that high efficiency, intellectual and economic, will never be approached in schools which is intellectual and economic. will never be approached in schools which fail to recognize the superior value of ability to gather knowledge of the superior value of ability to gather knowledge at first-hand. We live in a world of great opportunities in a new land of great opportunities, in a new land, and amid economic and social resources comparatively unexploited and resources comparatively unexploited and unexplored. Our economic progress and the vitality of our civilization progress and the vitality of our civilization depend largely upon the capacity of our people to recognize the capacity of our people to the capacity of our people to capacity of our people to recognize phenomena and to deal with actual conditions and concrete realities. The mena and to deal with and of The methods of childhood and of conditions and concrete realities. The methods of childhood and school-days should be fashioned in view of the necessities, the opportunity of the necessities, the opportunity of the necessities, the opportunity of the necessities of the nec tunities, and the conditions which the child will meet with in manhood and womanhood years; and these method will meet with in manhood. and womanhood years; and these methods will be sufficiently complied with where the necessities opportunity will be sufficiently amid plied with where the necessities, opportunities, and conditions and which the child now lives and moves are which the child now lives and moves are made the chief medium of instruction and the chief means of advertises. instruction and the chief means of education. Accepting this principle in education, the text-book falls into ciple in education, the text-book falls into its proper and useful place

in the well-conducted school as labor saver and partial guide to the teacher, as home-companions and mentor to the pupil. Often, too, it must remain the one and only source of information to both teacher and pupil.

Among the evils that resulted in the past from prescription of subjects in terms of the text-book alone, was the loss of due proportion among the subjects of the program. 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 essentials received scant treatment. The arithmetic of such schools was likely to abound in problems of alligation, of grindstone partnerships, or curious puzzles, while little provision was made for practising pupils in common and useful calculation. Abstruse problems of grammar and analysis and formulas of parsing usurped the place belonging to the correction of common errors and the enlargement of the pupil's powers of expression. Geography was as likely to deal largely in and counties in strange lands as with observation 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 prescribed ages. Since the same subjects were, in a general way, the same topics, sub-topics and illustrations were repeated thruout these grades with virtually the same treatment, until the substance and form of the instruction became a sing-song in the pupil's ears and it was fondly believed that the pupil had achieved something worth while. Ill organized as was such a condition of affairs, an even more the vaguest record of the former teacher's work remained to guide the grades.

Lest it may be presumed that in the upper grades of the common the teaching must of necessity be well graded, it is proper to affirm here books are not used in nearly all of the subjects. A reading-book 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 infor grades to the teacher the scope and treatment of the history set down no nature-study text for any of the grades. True, the earnest and of Education and found light and leading in the reference books from to time brought to her notice. But what of the less earnest and

less intelligent? Having no book forced upon them, they have sought none, and they have pestered children with committing to memory facts within the range neither of their interests nor of their understanding.

In the second place, it is to be pointed out that the orthodox text-book in geography, grammar, history, natural science, or in mathematics, is no safeguard of mehodical, well-graded instruction. The 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 sell 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 explanation, nor varied illustration. It presumes a well-informed teacher or a very well-trained pupil. Short, it confines itself to the strictly scientific treatment of the subject which appeals effectively only to the mature mind. It follows the strictly logical order.

Now, the logical order is not by any means the order which is always calculated to hold the attention of the child. There is a pedagogical order, recognized by all good teachers, which follows, when expedient, the order suggested by the present interests of the child, neglecting for the time being the strictly logical sequence. Children are not always, in the adult sense of the term, logical, and it is a wise teacher that recognizes the fact. In her wisdom, she reorganizes from day to day the material of instruction in accordance with the child's changing and growing apperception-masses. And thus the canned goods of the text-book maker are thru her skilful manipulation rendered not merely innocuous but palatable and nutritious.

A word is in place here relative to the principle enunciated as seventh in the list of recommendations to program-makers. is no intention to undervalue memory or to discourage exercises calculated to render the memory more efficient. The intention is, rather, to emphasize the well-known fact that much that is taught in the history and literature classes the forcest tory and literature classes, tho forgotten in substance or in may accomplish the very best results in the power to appreciate Much is worthy in human conduct or important is worthy in human conduct or important in our social relations. that is studied in the "Nature" class may appear to be totally forgotten; but nothing is surer than that, if the method of study has been sound, there has resulted to the pupil a great there has resulted to the pupil a greater readiness to deal with similar to The facts peculiar to or allied matters; and this is the end sought. the problem are incidental and accessory, and are no more necessary to remember than are the numerical factors, and are no more necessary to remember than are the numerical facts in those arithmetic problems thru the study and solution of which thru the study and solution of which the learner acquires a comprehension of the principles involved and the learner acquires agather prehension of the principles involved and disposes his mind to mathematical habits. matical habits.

To dilate upon this principle here might seem inappropriate except for two reasons; first, because there are well-meaning people who suppose that since the youthful mind is permitted and practised to range over a fairly wide field of knowledge, this is done to the prejudice of thoroness; secondly, because there are teachers who, discouraged

by the readiness with which children forget, but, determined to be on the safe side, trust to narrowing instruction to the meager dimensions that will ensure a specious facility at the written or oral examinations. But a pat statement of principle by a pupil is no evidence of thoroness of comprehension. To be thoroly comprehended, the principle must be experienced in its application to real conditions. These conditions may be manifold and various; and, besides, while they may appear the simplest thing in the world when read or illustrated in the text, they may fail of recognition when met with in the material world—an experience familiar especially to the teacher of nature and of science. Hence it is that today it is recognized as the soundest procedure for the teacher to lead up thru a wide range of contacts and experiences (experiments, perhaps,) to a comprehensive and lucid statement of principle. The business of gathering knowledge for use in later life is, in reality, but a comparatively small part of education. Yet there are teachers who have not progresed beyond the ancient fallacy of regarding 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 practice their pupils in conning and repeating individually and simultaneously. Or, to secure a showy output of verbal reproduction of potentially valuable facts and processes, they compel attention to the task long after interest is exhausted and the fatigue point reached.

#### METHOD IN TEACHING.

Under the heading, "Educational Aims and Values," is to be found (page 29) a general interpretation of the doctrine of apperception. In the light of this process,—i. e., the mind's assimilation of new knowledge by relating it to former experiences or mind-content,—subsidiary principles of method emerge into view.

Chief among these is the grouping of topics for study and instruction under comprehensive headings, or 'method-wholes', as they are sometimes called. As example, take, in history, the story of the growth The satisfactory study of this topic will involve consideration of sundry historical episodes, of divers times, places, and personages, of constitutional and social development, of the leading motives and circumstances that the pupils' mind contains bearing upon these matters should be ledge or as a basis for new inferences and generalizations; and to effect ditions at home. Imagination, memory, observation, and judgment will all be stirred to activity.

Nova Scotia. This will, of necessity, demand an inquiry into the thef producing-districts, the industries involved, the export-points, creating demand for these.

In grammar-study, as in natural science, such groupings suggest themselves even more abundantly. For instance, the nominative case-relation as traceable in various parts of speech and in locutions; e. g., in verbs, adjectives, pronouns, nouns, phrases, and clauses; Again, the adjectival office as a general function; e. g., as performed sometimes by single adjectives, sometimes by nouns in the possessive case, sometimes by the word-groups known as phrases and clauses. Or, again, the 'antecedent', as an accompaniment of both relative pronouns and relative (conjunctive) adverbs; the nature and extent of inflection in the several parts of speech; the name, or noun, as applied not merely to things material but to things merely seen or heard, felt or thought. In nature-study, there are comprehensive studies of means of plant-propagation, of seed-dispersal, of various habits of climbing-plants, of injurious plants, of the course of insect life, etc. In fact, this artifice of 'method-wholes' when applied in natural science or in language-study, becomes nothing more nor less than the inductive method which is reserved for treatment in a later page.

Next, there will be readily recognized the desirability of extending this process of method-wholes, i. e., the process of relating know, ledge under comprehensive headings. Facts derived from branches of study conceived as separate and distinct may be correlated in time and place, as well as in resemblance and purpose, and thru this unifying process acquire increase of interest and enhancement of value. instance, in a seventh or eighth grade, a series of lessons may be prepared on means of transport and communication in Canada This pared on means of transport and communication in Canada. will demand a consideration of means of communication and routes of travel in olden times—an interesting correlation of historical know. ledge with social and commercial geography. The reflective and imaginative processes will thus be called into action. knowledge of transportation conditions in Canada will be enlarged in a measure that would not be effected by a mere description of present trade-routes, railways, postal and telegraphic lines. Not only this, but the pupil will have gained both in insight and in habits of thought and study. The teacher has called upon him to assemble not only the direct statements of the book but an extra store of apperceiving ideas necessary to the judicious thinking out of social, political industrial and even more dustrial, and even moral progress in our country as dependent largely upon the improvement of means of communication. Historical dataseuch as chronology recipilations of communication. such as chronology, racial origins, primitive conditions, the narratives of early and later explorers, thus appropriately and later explorers, thus appropriately and later explorers. of early and later explorers, thus assume a new importance as members of a larger and powerful community of the larger and powerful community to the of a larger and powerful community of ideas. Should the teacher of so disposed, he will find a place in these lessons for the admission of another body of ideas—the morel another body of ideas—the moral—which enter in the form of more or less detailed reference to the motion that the form of more or less detailed reference to the motives that incited the early missionary and explorer; to the nature of the services, religions, civic, and commercial, indirectly rendered by missionary, explorer, fur-trader, railway-projector and engineer.

From well-directed teaching of this sort there accrues to the pupil an integration of consciousness, which is one of the ends sought in education. The 'correlation' of the branches of the school problem is a curtailment of the much-canvassed principle of "Concentration" of

Studies," which in its broadest application requires that all of the activities of the school should center around some one chief study,—a theory both pedantic and impracticable. Provided the teacher effects the conspicuously important and interesting correlations of a subject,—those which will afford a measurably certain stimulus to the self-activity of the pupil,—he may rest content with omitting those less obvious and more recondite.

Thus, the teacher might pretty safely count, as an outcome of the lesson detailed above, upon the pupil's desire or willingness to draw a map recording such historical and geographical data as contributed to his comprehension of the lesson; while, on the contrary, the obtrusion of arithmetical calculations or considerations of fauna and flora remotely associated with the main topic might prove disastrous to interest and self-activity in the class.

So, also, to pay too much attention to the penmanship of the pupil in his written theme drawn from such a series of lessons would the pupil's attention among minor issues of slope, form, and shading of letters. In such written exercises the teacher should look for neatness and legibility in the penmanship, nothing more.

In following out plans of utilizing "method-wholes" or comprehensive topics, the teacher will find that he has thereby put into effect a system of reviewing much more meaningful and pleasurable than the traditional one. Customarily, a review means little else but a laborious repetition of the consecutive pages of the text-book. Under the method-whole system, review becomes what it should be, the revision and rethinking of large units of study—an exercise in a high degree stimulation of large units of study—an exercise appear to the stimulating and educative. In the text-book, facts appear to the Dupil as on an equality of importance because standing together on the same page. of facts in proper perspective and proportion, because the attention The treatment here suggested compels the arrangement of the learner tends to focus itself upon a central theme which, in effect, constitutes the organizing element of the otherwise scattered and meaningless facts. Moreover, thru the organizing power of a central and meaningless facts. central theme, the pupil comes into possession of a means of distinguishing theme, the pupil comes into possession of a means of distinguishing the incidental or accessory. Suishing the important and essential from the incidental or accessory. His ability to study for himself similar problems is thus enhanced, and and according to study for himself similar problems a condition indisand, with it, comes to him consciousness of power, a condition indispensable to the growth of will.

That this principle of methods is susceptible of a wider and more And yet it is the end sought in the series-lessons of the nature-class of suppose that every lesson is to proceed in accordance with so ambitious child are chiefly those of word-naming, sentence-saying, learning to experiences upon which he can draw is scanty,—it would be the hight of difficulty and of futility for the teacher to adopt the principle of

method-wholes. What the young child needs most is scope for his curiosity, for his constructive and motor impulses. His part in the scheme is not so much to reason about things or to see things in any but their simplest relations, but to obtain experiences, most of them disconnected as yet and half-meaningless, altho directed with vague purpose by the teacher. Later, will come the time to organize these experiences, to give them a meaning by discovering their relations to each other; to turn the child's nature experiences and observations into nature-knowledge, his arithmetic to useful computation, his more or less mechanical reading to content-getting, his penmanship to real His attention to spelling, drawing, penmanship, letter-writing. punctuation, arithmetical process, etc., as tasks, will gradually cease. These are the purely formal and meaningless processes of the young Hereafter, they will have a meaning for him, since they are seen to have a value in relation to a real need; and motive enough for continuing to attend to them incidentally will be afforded in the tasks which he undertakes in geography, history, science, and literature, The latter subjects thus supply the content and the meaning to the merely formal facilities of writing, reading, spelling, and counting and the teaching of these formal facilities in connection with the content of the tent studies is the surest means of retaining interest in them. over, as has been asserted in a foregoing page, there is an economy effected by bringing these two diverse classes of studies into mutual relation and support. Experience has shown that more progress has made in spelling writing and made in spelling, writing and grammar, when these subjects are taught as incidental to written work, recitation, and discussion of the history, geography, and science topics. Every lesson should thus be, in effect, a language lesson. Every written task should be, in a moderate degree at least, an exercise in neat and legible penmanship.

Altho the organizing of ideas and of study-effort in relation to central and unifying thoughts may correctly be regarded as the culminating principle of method, it is nevertheless obvious that in the great majority of teaching-periods teacher and pupil are at liberty to lose sight of major issues, confining study-effort within narrow Thus, the central aim may be, for example, to locate and describe the chief agricultural areas in Nova Scotia, a lesson which will, of course, comprize many minor considerations, each of them an issue definite and distinct enough to be treated without immediate reference to the main topic. For instance, the phenomenon of the diked lands lying along our tidal rivers and estuaries may be subordinate to the main topic and yet a matter important and distinct enough to temporarily abstract attention therefrom.

Again, in the progress of school-work, the attention of the pupils may be temporarily directed to gathering information destined to supplement the statements of the book or the data presented in unfinished lesson. Or, they may be absorbed in acquiring formulas memorizing and applying mathematical tables, observing natural phenomena, analyzing sentences.

Again, the class lesson may be a problem or series of problems of limited reach arising out of the commonplaces of the text-book, or suggested by the pupils' experiences, private reading, need or curiosity, or necessary to the achievement of some specific purpose set by teacher or class. Wherever possible, the lesson should be conceived as a necessity. There should be an end sought, whether it be to enlarge one's comprehension of some matter of immediate or local interest, or to satisfy curiosity, or to meet some actual need. Such lesson will invariably prove a stimulus to increased curiosity and to new demands.

There should be no blind order of study. The text-book, it may be claimed, suggests it; but this suggestion is likely to prevail only with timid and resourceless teachers. The text-book order may or may not be a logical, thought-out order which the teacher may seem fairly bound to follow. It is so, for instance, in arithmetic, geometry, botany, and chemistry. It may, however, be a mere chronological sequence, as in school-histories. It may be an arbitrary arrangement, as in political geography or in English composition. Or, it may be a merely haphazard and whimsical arrangement, as in English spelling. With any and all of these the teacher is authorized to interfere—to interrupt, to amplify, to verify, to reconstruct. There need be no fear of confusing the learner. Even were there such, the resourceful teacher would take the slight risk rather than endure an unthinking adherence to the sequence of the text and a repression of all disposition to be guided by judicious suggestion and the interests of the moment.

As already pointed out, the line of individual curiosity and necessity is the line of true interest; and it requires only courage and moderate directive skill in the teacher to follow up the main avenues of knowledge along their devious, interrupted, but ever attractive byways of youthful interest. Just here it may be well to remark that specious interest is often temporarily maintained among pupils thru. thru emulation in reciting answers learned from the book. Care should be taken not to mistake this for genuine interest in the subjectmatter of the lesson. A momentary cross-examination will reveal For there is an essential difference between that activity which expresses itself merely in learning statements of fact for use in the question-and-answer process of the class-room, and that selfactivity which is spontaneous and which arises out of the desire to satisfy a mental or material demand. The possession of facts is not scholarship in the true sense. True scholarship must be efficient. It can only be conceded to exist where there is a consciousness (not a mere cognizance) of facts in their relations, and a disposition to seek their bearing upon individual or human needs.

Intellectual resourcefulness, therefore, and not merely the active quisition of facts, must be regarded as the end of mental training in the public school. Where this aim is kept in view, method may stumble times, and the teacher may suffer ultimate disappointment in the effort to keep the machinery of class-instruction running as smoothly as it often appears to run when entire reliance is placed upon text-book

order and the question-and-answer system. Nevertheless, there will be positive gains to the pupils which will more than make up for the lack of showiness. That most invaluable habit, Reflection, can never be developed in any other way than by the practice of setting aside from time to time the printed statements of the text-book and calling upon the pupils to discuss the matters under consideration in terms of their own environment and experience. For, reflection, in its origin, is not concerned with remote and impersonal matters: its primal exercise is with the realities of our own existence, of our own personality and our own surroundings. No text-book is likely of itself to beget the habit in the child. The intervention of the trained mind is here necessary. Were this not so, the teacher's office would be reduced to that of a monitor. Her intellectual functions would be entirely usurped by the book.

Memorizing.

One of the gravest dangers to mental development arises from the circumstance that much of the study effort in the first four grades Much of this memorizis and must remain an effort at memorizing. ing, too, is of a merely mechanical kind. Take, for example, the long and dreary task of learning to spell, the illogical word-naming inseparable from an inconsistent spelling, the indispensable drill on addition and multiplication tables. Unless the teacher is on her guard and careful to mingle and combine with these memory-efforts suitable exerercises and applications requiring thought and purpose from the pupil, the latter, by the time he reaches grade five, has become steeped in the memorizing habit and convinced that it is the only method of Later, when he reaches the preparatory grade, and text books grow numerous and bulkier, or when he commences the study of French or Latin, the practise of mechanical memorizing is in danger of renewal. It is quite likely at the commences the study of study of renewal. It is quite likely that much of the present-day prejudice against foreign-language study arises out of protest against the wretch ed methods of study practised. Indeed, in the first year of French or Latin, it is common to find a total absence of intelligent language method and in its place. guage method and in its place mere parroting of declensions, and written evercises in word shuffling written exercises in word-shuffling.

One of the weak claims made for this stultifying practice is that ultivates the memory'. Now are it 'cultivates the memory.' Now, memory cannot, in the generally accepted sense of the term, be 'cultivated.' It is not possible, thru practice, to enlarge its general acceptance. It is not possible, thru practice, to enlarge its general power or capacity, or to improve its quality in point of quickness or retentions. quality in point of quickness or retentiveness. What we may do is, We may, in other thru practice, to render our memory more efficient. words, learn to use it with system. We may improve our methods of There are, for example, various tricks of mechanical and mental association worth acquiring, various tricks of mechanical that, in the effort of memorizing conjunctions and analogies that, in the effort of memorizing, spring to aid and deserve to be thoughtfully noted. Best of all there is the result of the serve to be thought Best of all, there is the practice of outlining a lesson, a fully noted. poem, or whatever it is that we want to commit. To first outline the subject matter catching and holding the subject matter, catching and holding the main ideas in their correct order; then to attend closely to the date. order; then to attend closely to the details of thought; last of all, if required to commit the actual man ideas in their confidence. if required, to commit the actual wording, is the best order of effort.

Naturally enough with child Naturally enough, with children, whose mental tasks have been extensively memory drills, the tendency is to begin at the wrong end of the process and to commit line by line or sentence by sentence. This false method the teacher should correct. Some time should be taken now and then in teaching children how to memorize. Above all things, the teacher should frequently explain how she wants a lesson studied. She must not be content always to send the children home with a lesson merely assigned, for this will confirm them in the superficial memorizing already familiar to them. It must be remembered that false habits of study, once well seated, are hard to dislodge; and that, as a rule, by the time he has reached the sixth grade the pupil will, for good or ill, have already fixed his methods of study.

How to memorize is, in fact, one of the important considerations of the school; and yet it is only a part of the comprehensive matter of How to Study. It may be generally supposed that children will acquire proper habits and methods of study unconsciously, from being methodically and properly taught. This may be in part true; yet how often we find a class of bright and interested children left quite without initiative once the presence of the teacher is withdrawn. long as the teacher is present to suggest motives, to indicate lines of thought, to frame leading questions, the class goes on smoothly, and a casual observer might suppose the children quite capable of independent study. But unless these pupils have been trained to initiate and prosecute inquiry, to outline a lesson, to discover and set up specific purposes or motives in its study, to judge of relevance and irrelevance, to distinguish the important and the non-essential, to note an author's treatment of a topic point by point,—to do all of these things according to the measure of youthful capacity,—study ceases almost as soon as the directive genius of the teacher is withheld.

The committing to memory of the actual wording of a passage being only one of the several forms of memorizing called for in study, the teacher must not confine attention to it. Many pupils lack the gift of memory for words who nevertheless have good capacity for committing and retaining the points of an argument or a sequence of coherent ideas. Of all exercises calculated to assist the pupil in committing the substance of a lesson and to teach him how to study, none is better than engaging him from time to time to express in a few words the principal thought in each of the succeeding paragraphs of a story or other well-constructed text, and then to gather up the whole in a brief résumé, oral or written. Memorizing of this kind is a highly intellectual process. The act of determining the 'point' of a paragraph is in itself. is in itself an exercise to be recommended to pupils of high school and collegiate grades. The sequent act of expressing it in a correct, brief statement constitutes the very best kind of language lesson; and, as every teacher knows, it is very often the inability to express ideas in his own words that involves the pupil in failure. He has, it often happens, vaguely caught the ideas; but, not being able to recall the words of his own, he sits down, words of the book, and having no language of his own, he sits down, nonel. The book, and having no language of his own, he sits down, He had thought he knew his lesson, yet he doesn't know The case of this pupil is, however, not so bad as that of the one The proceeds to commit sentence by sentence or clause by clause. The sentence, he accepts as the unit of thought. Consequently, he

makes progress by sentences. Each is treated as of the same importance as its fellow. There are no peaks of thought. The field is a plain.

Now, the units of progress, in thinking, are not necessarily sentences. They may be groups of sentences, groups of ideas so related to one another as to make up a whole. Progress should be by these groups. The smallest unit of real progress in thinking will be one of these bundles of ideas. This condition accepted, there will then be some good chance of the substance of the thought being remembered.

There is no question here of training the memory. It is entirely a matter of training ourselves to habits of system. Take, again, the case of one studying under the influence of some specific purpose, or to solve some complicated problem. He perforce creates system in his study. The end he has in view will of itself compel the organization of the facts and inferences into thought-groups. It will set up standards of relevance and irrelevance; will bring about a coherence among the 'points of thought'; will test and corroborate suggested ideas in the light of each other or of one's own experience. There will be little fear of failure to remember the train of thought. Where the study-effort is systematic and intelligent, memory will function at its maximum of efficiency, and no amount of practice will improve its quality.

## Reasoning.

While it may be that one's reason, like one's memory, is not capable of general increase of power, it is nevertheless safe to assume that education can do much to establish specific habits of reasoning. Impelled by curiosity, the child is ever enlarging his circle of interests. These interests the school seizes upon and enlarges, seeing to it that in each connexion the experiences the pupil obtains are fundamental and general and not merely incidental and particular. Further, it requires that the pupil's increasing stock of experiences be subjected by him to continual recall and reorganization, procuring thereby a flexibility of knowledge and a readiness of recall in new situations. While promoting thus the habit of invoking past experiences, (i. e. knowledge), it cultivates, too, the disposition to apply this knowledge critically to situations purposely selected as well as to those arising casually.

A word as to the organizing process. Facts, experiences, phenomena, to be effective, cannot remain detached units. The human mind does not tolerate such a condition. Influenced by resemblances, analogies, or other associative factors, it arranges phenomena into groups or classes under headings which we call concepts, and which may be either mere class names, generalizations, definitions, rules, or opposites, and of classifying facts or phenomena on this basis, is called generalizing, and is the first step in inductive reasoning. Thus, in language, we classify words as nouns, verbs, transitives, plurals, objectives, etc.; in history, we classify events as wars, conquests, revolutions, conduct, as heroic, mean, rash, politic; in geography, we have classes of phenomena such as lakes, rivers, islands, table-lands, nations, re-

publics. In botany, such popular classifications as annual and biennial, evergreen and deciduous, are generalizations quite as much as are monocot and dicot, angiosperm and gymnosperm. Each of the terms mentioned is a generalization or general notion; that is, it is applicable to each one of the infinite number constituting the class.

In such a statement of observed fact as that unsupported bodies move toward the earth, there is the same process of generalizing; that is, of arranging experiences or propositions into a class, thus preparing the way for the step of making the proposition universal in its application; viz., All bodies tend to move toward the earth's center. This mind-process is known as induction or inductive reasoning. Thru it, man has come into possession of the organized knowledge called science. Thru it alone is any addition to human knowledge possible. For science is nothing more nor less than classified and organized knowledge; which is equivalent to saying that phenomena which do not admit of being classified and organized cannot, in the scientific sense, be said to be understood.

This being so, it will have to be admitted that children, as soon as old enough, should be consciously practised in the use of this mindprocess: first, direct perception of phenomena; second, association on the basis of resemblance, with a view to forming concepts, making generalizations, and enunciating principles. The numerous categories of grammar, of history, of geography, etc., such as those mentioned above, should be grasped by the pupil as generalizations just as imperatively as are the categories or classifications of botany, physics, or chemistry. And the first essential of method is that the learner proceed as far as possible from direct and careful observation of the proceed as far as possible from direct and careful observation of the particular phenomena upon which he is to base his generalization. It is insufficient that the phenomena be presented to him in the form of statements of fact,—mere words,—when the concrete and actual plant-forms, earth-features, language-phenomena, etc., can be presented to the bodily senses. The phenomena of nature, which are to form the basis for generalizing should be sought out by teacher and pupil, or, if necessary, reproduced in the classroom. watershed, valley, beach, should be presented in the concrete, too, in minated, valley, beach, should be presented in the concrete, too, in minature, if necessary; or, at worst, thru the agency of the sand-map, the roll? the relief-map, pictures, etc. Even in history, such fundamental ideas as government, representative government, protective tariff. revenue, nation, empire, arbitration, dynasty, constitution, executive, president, empire, arbitration, dynasty, and illustrated in terms of dent, empire, arbitration, dynasty, constitution, then the should be interpreted and illustrated in terms of things all of these should be interpreted and illustrated in terms of the effectively comthings within the pupil's experience, if they are to be effectively comprehended, and the pupil's recitation to be more than meaningless

Proceeding, thus, by way of direct contact and observation, such the formation of river-deltas, or of, say, the pluralizing of nouns in of mind which we call the scientific habit, and which is nothing more less than the habit of cautious induction.

#### Class-Conduct.

To obtain the best results in teaching, class-room conditions should be as natural and the discussion of the lesson by pupils as free from restraint as possible. Initiative in the discussion should be left largely with the pupils, the teacher's part being chiefly to correct, to advise, to regulate. Questions should come as freely from the pupils as from the teacher, and these should be addressed not only to her but to the class. Thus "the recitation becomes a social meeting-place; it is to the school what the spontaneous conversation is at home, except that it is more organized, following definite lines." (Dewey's School and Society.) Where the lesson or recitation is allowed to become merely an attempt on the part of the teacher to elicit the few facts of the text, we may be sure that the preparation of the lesson by the pupils will be little more than a preparation to state these bare facts.

Let the teacher's mind be less upon herself and her own performance than upon her pupils and their activity. Her worth as an instructor is not to be judged by her ability to expound a topic so lucidly and thoroly as to require no original effort from the pupil. Rather, she is to be considered the best teacher whose method of instruction merely reveals the method of study by which mastery of the lesson is possible. It is the effort elicted from the pupil that counts. It is for him as much as for her to discover purposes in study; to gather, sift, and arrange data; to consult authorities; to contribute information, illustration, opinion; to determine facts; to note irrelevancies and inacccuracies.

Teacher and Pupil.

The teacher should frankly recognize the right of her pupils to just and respectful treatment and to the exercise of a becoming self-respect and individuality. She should never impose her authority in intellectual matters where the pupil has a right to question, object, or decline to be convinced. She should never reject, or wholly ignore any answer given in good faith by a pupil, no matter how wide of the mark it be. It is, of course, quite another case when the answer is that of a sycophant who, in order to please, answers what he imagines will be acceptable rather than what he sincerely thinks.

She should recognize, further, what is due from pupil to pupil. Especially is this important in the course of the recitation, where there may be pupils so timid and repressed in conduct that their spoken answers are inaudible to their fellows. Let the pupils understand that each one of them has a right to hear the answer, and encourage them to assert this right.

The teacher should endeavor to preserve a businesslike but tolerant and cheerful attitude, eschewing arrogance and sarcasm; frowning with unaffected disappointment and disgust upon deceit, meanness, and indolence; exercising patience with honest blunderers; and always remembering that she is in the school for the good of the scholars. When she has erred in what is due to a pupil, she should be prompt to

redress the wrong. Showing a readiness to accord his due to another, she will experience less difficulty in requiring courtesy toward herself.

These are not mere matters of school morale. Attention to the courtesies of life is of the highest importance to the development of that free and natural intercourse between teacher and pupil whose atmosphere is necessary to the growth of individuality. Something more than an obedient knowledge-getter is wanted to make a desirable pupil. Boldness, originality, courage to speak out one's mind, to question, to object, to admit ignorance or incapacity, to resent neglect, to doubt printed statements when disproved by our experiences, these are qualities in danger of being smothered in the press of school studies and school discipline.

## Condensed Recommendations.

# 1. Assignment of Lessons.

This should be simple and explicit, and it should be put in such form as to create an interest in the new lesson.

# 2. Questioning.

Think twice before putting a question. Avoid modifying or patching up a question once it is put. Make one question go as far as possible. In other words, see that it elicits the maximum of thought from the class.

Do not waste time asking questions which you know the pupils cannot answer; trying to force an answer from an ignorant or unwilling pupil; waiting too long for answers from obviously backward pupils; disputing with pupils.

# 3. Attention.

Endeavor to secure and to hold the attention of the whole class.

Utilize brief physical exercises, change of occupation, singing, or any other resource to preserve freshness of mind. Be watchful against improper physical conditions in the class, against monotony, long-continued exertion, etc.

Insist upon every answer, every written exercise, every piece of blackboard work being the pupil's best. Merely asking for this is not enough: insist, and you are bound to secure increased attention to the task.

# 4. Teaching a Lesson.

Avoid lecturing. Rather, guide your class thru the lesson; and do not explain what the pupils may well be expected to think out. Have your lesson proceed as much as possible

from concrete examples. Obtain these, whenever possible, from your pupils and from the home surroundings. Cultivate your own power to illustrate and amplify by recall of experiences, by rapid sketch-drawing, by graphic representation. Avoid loud, persistent talking. The more you talk, the less your pupils think, and the better cover you make for whisperers and inattentive pupils.

Frequently require pupils to reproduce your explanations.

## Blackboard Work.

In oral teaching, use the blackboard to outline the lesson while talking. Permit your pupils to see nothing but careful work from you on the blackboard.

#### READING.

# General Prescriptions.

## Grades I, II, III.

The initial effort of the teacher is to awaken an interest in stories hidden in books, and thru this interest, to command the child's attention to the process of recognizing words as wholes, of making words out of separate sounds or 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 alphabet: they learn whole sentences, or thought-units, This from the book, and, incidentally, they perceive word-elements. This fact furnishes the teacher with a hint as to how 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 its ensuring a measure of expression in reading, 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 short and regularly spelt words on the board, pronouncing each word slowly and repeatedly, so as to bring out the component sounds. For example, the words net, pet, pen, pronounced slowly; then pronounced n-e-t, 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 daily reading lesson: the words may be taken apart and their component sounds associated 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, a constructive exercise. The teacher may begin by writing or printing slowly and repeatedly on the board a vowel such as a, giving its short sound only (and, if she so chooses, 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 names are of no assistance) uttered very distinctly by teacher and pupils. Words, such as rat, cat, cap, tap, rap, pat, may now be put together. Later, each of the vowels, in their short sounds, as in ten, pet, top, pit, tub, may follow; and the remaining consonants may be picked up one by one in forming words with these. The long sounds of vowels should be deferred, as they are often misleading to the beginner.

The entire process of word-making is thus illustrated. Step by step, during the 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, until, in process of time the whole gamut of this exercise may produce a tendency to stammer. At first, 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 the purpose of fixing the attention of the class. Later, when the First Book is taken up the child will be prepared to make 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 not merely of recognizing and uttering letters and sounds but of associating mentally these sounds or words with the things they signify. Failure to make this effort will result in the easy and disastrous habit of 'saying things off' without imaging or understanding them—a condition fatal to the educative process, and memorizing them—a condition fatal to the habit of mindlessly memorizing lessons in history, geography, etc.

In analyzing words and in sounding the consonants for word-making, the teacher should be careful to make the sounds of f, k, h, or accompaniment from the throat. The safest way is for her to get too, very carefully, the respective counterparts of f, k, p, s, t, ch, sh, this, (as in think), viz., v. g, b, z, d, j, s, (as in measure) and th (as in companied, not followed, by the throat or vocal chords.

The digraphs th, sh, ch, ng, nk, cannot be analyzed and must be taught as the each were a single letter.

The names of the letters of the alphabet in their regular order to be given at some 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 are songtimes and rhythmical divisions of the alphabet. Once the names of the letters are known, the teacher can resort to the exercise of spelling, keeping in 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 little story on page 5 is a model of considerate and affect the story of page 5 is a model of conciseness and of wholesome sentiment artfully concealed. There is humor in Bell the Cat, The Dandelion, The Rainbow; a pleas ing moral in each of the several fables found in this book; a frank and charming imagery in The Wind, page 22, and The Daisies, page 55. In the jingles, pages 1 and 9, there are at least melody, rime and rhythm, so captivating to the juvenile ear and tongue. A Pleasant Day, page These lessons 40, expresses the child's delight in sunshine and play. are not mere pages to be monotonously spelled out and droned out. The teacher must in each one strive to catch the sentiment and to awaken in the child the proper response to her own feelings and, thus, to the feeling and melody of the piece. If she can find nothing in the reader but words, material for spellings, for grammar questions, of for dull queries as to, Who said so and so? Who did that? How do you spell that word? you spell that word? etc., etc., the higher purpose of reading is unknown to her, and the emotional life of the child is left to starve.

A warning must be issued here against racing thru the school reader. In case the teacher intends to use a supplementary reader, the class need not review; but where no supplementary reader is to be used, the class should proceed more slowly and with more complete mastery of each of the words, the expression, etc.

# The Higher Grades.

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

Subsequent grades of reading call for no new development in method. Nothing, however, 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 head, the distinct enunciation of consonants, the full and sonorous utterance of vowels, 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 sounding of the vowels free from nasality and free from throatiness. Practise the vowels separately and as found in words, and one will find he has three voices, a nasal, a guttural or throaty, and a clear, bell-like one. (Cultivate this last one.) Next in importance is the preservation of the time-length of vowels. Ignorance or neglect of the time-value of vowels is largely responsible for the inaudibleness, the undue rapidity, and the general meanness of school-reading, recitation, and conversation. English vowels uttered in speech have each a time-value which can be measured by the watch. Neglect to sustain the vowel tone destroys its carrying power and obscures the accompanying consonant sounds. To illustrate: The careless, ill-spoken person says "I w's g"n dow' th' street" or "I w's go'n' dow' th' street;" or, "He w's empt'ng th' water ou' 'v th' ol' boat," almost annihilating the vowels and consonants indicated by the apostrophes.

In the reading of poetry, capital opportunity is afforded for giving due value to vowels, as well as for distinct utterance of consonantal sounds and syllables. The power to sustain the voice at the end of a Take, for example, a stanza from the Sixth Reader:

"O rivers, rolling to the sea From lands that bear the maple tree, How swell your voices with the strain Of loyalty and liberty."

The very long vowels are in the italicized words. Shorter are, rivers, bear, maple, your, voices, loy. Very short and almost inaudible that all the vowels. The untaught pupil reads the passage so His rate of reading is, consequently, far too rapid; and the general effect is wretched. No wonder such pupils with such teaching never to enjoy the rhythm of 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 pert, herd; egg, ell; week, ring; folk, fold. Worth while will it be, to practise him on words containing very short, unaccented vowels; e. g., pudding, going. In careless speech all of these vowels are sounded vulgarity. Then there is the frequently mispronounced vowel in the in pass, glass, path, which should be the same as in mark; in food, sation; should be the same as in too; in again, which in converuuz; in get, forget, which are corrupted into git, fergit,; in can go, often sounded kin go; scared, pronounced skeered, etc.

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 vowel values, accurate enunciation of consonants, and well-placed, sonorous speech. Once 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 more to highten the self-respect of teacher or pupil than will the consciousness that his 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 the school program; viz., its correcting and refining influence upon the speech, and its stimulus to emotional expression. The latter is even more important than the former. The reading period is the one, par excellence, where the teacher and pupils are oftenest lifted into the realm of emotion; where the purer passions are stirred by tales of kindness, heroism, sacrifice, and suffering, hy the genial touch of sacrifice. by the genial touch of poesy. The human element in literature being the most powerful in its appeal to children, as to older persons, and require less effort to integrat the children as to older persons, and require less effort to interpret than the nature element. Since, how ever, a large part of our literature, both prose and poetry, is concerned with the interpretation of pattern in the interpretation in the interpretation of pattern in the interpretation in the interpretatio with the interpretation of nature in its emotional aspects, or, rather, as awaking emotion in mankind, there is an additional incentive to the teacher to stimulate in children an emotional attitude towards nature, towards sky and sea, mountain and stream, sun, moon and stars night and day alastic high alastic high alastic high and day alastic high and day alastic high and day alastic high alastic hig stars, night and day, plant and animal life, color, form and sound in nature. The nature that nature the nature the nature that nature t The nature lesson, the lesson in plant and animal life, in elementary astronomy or physical geography, the lesson in drawing in -each affords opportunity for this. And this emotional factor in the leading should never be formally actions the second section of the second sections at the second section of the second sections at the second section of the second sections at the second section of the section of the second section of the sect nature-teaching should never be forgotten or neglected; so that, when in school a piece of natural description in school a piece of natural description constitutes the reading-lesson, it may be interestingly and profitable it may be interestingly and profitably dealt with as picturing aspects of nature by us only imperfectly at of nature by us only imperfectly observed, and as throbbing with a feeling native to all humankind. Let the teacher who has not yet developed this feeling for nature. developed this feeling for nature be not discouraged. acquaintance with nature and with poetic interpretation of nature will supply the deficiency. Indeed will supply the deficiency. Indeed, a few good pieces carefully and slowly read and carefully imaged will few good pieces carefully epirislowly read and carefully imaged will work a miracle with the spiritual vision. For this purpose the more and carefully imaged will work a miracle with the spiritual vision. tual vision. For this purpose the most familiar pieces may prove the most effective, even as by reason of the most effective. the most effective, even as by reason of this very familiarity they are likely to be the ones least regarded. likely to be the ones least regarded. The prescribed readers to excellent examples in Tennyson's "Broat" excellent examples in Tennyson'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 time practice of all judicious teachers in reading aloud from time to 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

tone and sentiment of the prescribed passage, but at other times, and, indeed, whenever she may have come across something suitable or entertaining to the pupils. The 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 recommendation. Question them as to what they are reading, what books they like best, what the book deals with, who the characters, etc. Do not insist too much upon the child reading "to improve his mind." Be content that he reads, so long as what he reads is not unwholesome.

#### ENGLISH LANGUAGE.

## General Prescriptions.

For convenience of treatment here, as for convenience in the school-room, elementary language study may be thought of as

# 1. Constructive.

Learning to speak distinctly, in a good tone of voice, grammatically, and in appropriate language.

Learning to write legibly, fluently, in correct orthography, and in correct and appropriate language.

# 2. Analytic or Interpretative.

Learning to interpret the printed page and to give expression to both its thought and its sentiment.

Deficiencies in teaching are to be found on both the constructive the interpretative sides. The latter is dealt with partly under bear upon the grammar of the language.

Noting that the task of the learner is, first, to speak well, and, secondly, to express his thoughts in writing, the teacher will from the outset endeavor to provide in her own language a high standard of from English for the pupils. It is unfair as well as futile to expect the school a facility which the teacher does not possess. On written-work of the pupils do not improve from the mere example of a teacher who takes pains to speak distinctly, in a good voice, and correctly, and to execute her written work carefully.

Correct example costs less effort the more it is practised. Correct utterance and correct language will be reflected in the spelling and written composition of the pupils—results painlessly achieved and at no outlay of energy comparable to that required in the continual correction of written mistakes due to ill-formed speech. Most important it is, therefore, that the practical results of the voice-training of the reading class be carried over into the other branches and into all the spoken language of the pupils.

#### Grammar.

So far as grammar is concerned, it is well to note that one acquires grammatical habits from example rather than thru instruction. The direct value of grammatical study for children is small; but it is well that whatever effort is put upon this subject should dispose the pupil to proper habits of thinking, and not to the memorizing of obscure or meaningless statements. The phenomena of grammar should be studied exactly after the same method as the phenomena of nature. Parts of speech, grammatical relations, rules of government and agreement, declension, mood, tense, number, are only grouping of intelligible phenomena under strange headings. The groupings themselves are easily made and easily understood by pupils and teachers: in each case it is only the technical name given to the group, or it is the form in which the generalization is expressed, that causes the difficulty.

The terminology of English grammar being of foreign derivation is therefore difficult for children. Besides, pedantries of definition and rule are strewn so abundantly thru the ordinary text-book that the unskilled teacher is liable to lose sight of practical values in the maze of artificial difficulties conjured up from the shades of dead languages. From the first, stress should be laid upon the useful element in grammar study, to the disregard of merely academic classification and distinction. The business of the teacher is to secure the use of correct forms of speech thru imitation and by stressing those rules and distinctions which bear directly upon correct usage.

The first feature of language to demand attention is the sentence. The nature of the sentence is not to be apprehended, however, thru a definition. One must practise the children with expressions trating incompleteness and completeness until the language-feeling is rendered sensitive and discriminating in regard to sentence and non-sentence. Let there be no hurry. Exercise upon the sentence building sentences from ideas, about concerns of the children, and by the pupils, completing unfinished expressions, enlarging third, and fourth grades, and later. By this practice only, will the use of the period and of the capital be rendered intelligent and certain.

The next consideration is that of the two elements of the sentence, the subject and the predicate. The latter word is a strange one to the child. It is not the term, however, but the function, that is in-

portant. The term *predicate* is merely one of those labels that are useful in discussing the meaning or thought-relations of a passage read and in questioning the pupil upon these in the course of the reading class.

Parts of speech may be conveniently considered in the following order: noun (common and proper), pronoun (personal), verb, adjective, adverb, preposition, conjunction. The conception of the noun as a part of speech is easily formed by having the pupils give names for the objects, persons, etc., around them. Everything has a name: each part of our clothing, of the window, of the desk; every feeling, pain, disease; every feature of the earth's surface, every town, river, etc.; every animal, plant, etc.

At this point, it is easy to substitute the grammatical term noun name; and quite easy to pass from the general or common nouns, Avon, Cobequid Mountains, Fred, Carlo, the Smiths, James. The important principle of method is that the generalization be made by the pupils from consideration of the actual names they have collected. To start the lesson with a definition of noun and then to proceed to the search for examples is the wrong way about.

Still more injurious to mental habit is it to attempt a definition of adjective and then to seek examples. The several parts of speech are almost impossible to define. Each of them is recognizable only thru a Certain function or thru some change of form or some relation in thought. Thus, adjective is in effect most easily recognizable thru its fastening itself in thought to some noun or pronoun; in the absence of noun or pronoun there can be no adjective. In function, the adjection or pronoun there can be no adjective. Hence all jective always puts a limit or inclusiveness upon a noun. Hence all adjectives limit. Good apples. The apple is red, that window, ten men, all men. In each of these expressions the function or effect of the additional and the same of these expressions the function or effect of the additional and the same of these expressions the function or effect of the additional and the same of th the adjective is limitation. The lesson should begin by having the Pupils name various objects. The names so obtained should then be used as subjects of sentences, each noun having a word attached to it that serves to distinguish it. The several limitations—of number, quality, position—should be noted and named. Such exercise might be continued thru several days until the function of the distinguishing or limitinued thru several days until the consciousness of the pupil. Reor limiting word takes its place in the consciousness of the pupil. Recognizing word takes its place in the consciousness of the paper adjective. izes them into a class. All that is wanting is the name adjective, which may now be given him.

The conception of pronoun likewise should be arrived at thru the supplanting of nouns in sentences by those other words which the should be given calling forth parallel sentences containing these subtitute words. Good opportunity is furnished here for written exercises comes apprehension of these words as substitutes for nouns or names tution, not by simply telling him that they are pronouns. The term pronoun should be kept back until the mental apprehension is well

formed. The name will then serve to strengthen his conception of this part of speech.

Here it is important to note that parts of speech are not safe to be dealt with except where they occur in sentences. A string of incoherent words is not language; and words are not really parts of speech except when used in speech or writing. Thus the word black when standing alone cannot be said to be a part of speech; for, if asked which part, one would not know whether it is an adjective, a noun, or a verb. This fact is important; for where ignored, the pupil is likely to think that the part of speech of a word is fixed, whereas in English, almost any word may rove around now as noun, now as adjective. now as verb. For example, The book is thick. I have book debts. I book a passage. This liberty of the individual word to function as several parts of speech is one of the distinguishing features of English and one of the marks of its high development as a language. In no other tongue has so high a degree of flexibility been achieved.

The foregoing examples of the generalizing process as applied in grammatical study are intended to serve the teacher as types for lessons not only on the other parts of speech and their sub-classes, but on the cases, the moods, the several governments, agreements, etc., which constitute the syntactical relations of English.

One of the most difficult conceptions of grammar is the Verb. No adequate definition of this part of speech is possible. As a part of speech it is, however, easily recognized thru its power of budding out predicate-endings or inflections to satisfy an accompanying thou or he. This point of vantage gained, attention may be directed to its indispensable presence in every sentence; to its intimation of time (tense); to its varying tones of positiveness (indicative); of doubt or uncertainty (subjunctive); of command (imperative); to the activeness or passiveness of its subject (voice); most important of all, to the necessity of choosing such endings as will be appropriate to its subject when sity of choosing such endings as will be appropriate to its subject when associating with it only the nominative case forms, he, she, they, we (Syntax).

The pronoun presents an interesting study of shifting of function in its transition from interrogative to relative. Pupils should study first the personal and the interrogative pronouns. Pupils may then be required to bind into one sentence such pairs as: I gave Tom the ball. He has it in his hand. Yesterday I saw Fred. He is at home sick today. Here is an apple. It has a long stem. Do you see this flower? I took it from Mary. Here is a pen. I have broken its point. Abstaining from the use of and as the connective, the pupil brings into play the relative words, which, who, etc., and will note their connective or conjunctive power, their pronoun function, their dependence for number and gender upon an associated word (the antecedent), and will thru this first-hand study of the word and its relations come to an intelligent appreciation of the term relative pronoun. Almost identical with this will be the later study of the relative adverb (commonly called the conjunctive adverb).

The adverb presents no difficulties except in the few words which fluctuate between the forms in (-)ly and those which lack the (-)ly form such words as cheap, dear, low, high, wide, deep, near, fast, far, etc. Usage] is the only guide to the choice of the form. It is not the (-)ly form that makes a word an adverb, but rather its reference or relation to some verb or adjective; for several adjectives have (-)ly forms, such as, comely, sickly, goodly, timely. Usage sanctions "highly praised," praised highly," "the bird soared high," but not "high praised" or praised high"; and usage is the basis of all grammatical rules. This truth should be made clear and emphatic thru the teacher's producing citations from authors, which should form the point of departure of the lesson. Grammar study is nothing but the study of good usage, with the intention of reducing it to system in order that we may more promptly call it into action in speaking and writing.

The first-hand study of words as they occur in sentences will serve best to bring out all those relations of agreement and government which we know as syntax—especially those relations that are important in speaking and writing. Thus, the noting of the identity of person in the first two words of the following sentence serves as the first step in comprehending the relation known as apposition. "John, my cousin, has gone away". The identity may easily be caught by pupils, and the punctuation of this and similar passages taught, even apposition. Indeed, correct punctuation may be easily learned and practised by pupils entirely ignorant of the technical terms of grammar.

What is known as parsing may easily be overdone in schools. to too, too, analysis. Tabular parsing, unless given with discrimination advanced pupils who have been well trained to independent effort marole. Minute dissection of predicate expressions into subjective and objective complements, indirect predicates, extensions of concession, accompaniment, etc., are refinements of logic out of place in adverb are easy of comprehension; and, once fairly settled, they may clause. More than this is unnecessary, and elaborate classification symbols, A, a1, 2a1, may well be discarded in favor of the letters tion or clause-dependence for each clause.

Those five or six rules of syntax which are operative in keeping our speech grammatical should be stressed. Facts, rules, and definitions of no practical effect in speech may be passed over. So, too, minute weak irregular, and strong; of tenses into progressive, perfect, and perfect progressive tenses; distinctions of factitive verbs intransitive verbs used as transitive, should be omitted. On the other hand, the verbs whose past and past participle differ, and to be practised in compounding tenses with the past participle (not with the past indicative).

#### Composition.

Composition is a constructive art, to be mastered chiefly thru imitative effort. Of course, the act of imitation, especially in its higher phases, involves a certain effort of analysis of literary forms, qualities, and conventional practises; but the conception of composition as chiefly the rhetorical analysis of the literary production of authors and the definition of literary forms, is false.

What the teacher is expected to do is, first of all, to set a good example of correct and varied speech-forms and of coherent and appropriate expression, and to cultivate thru practise the growth of similar possessions in the pupils.

The judicious teacher will therefore view the teaching of composition as first and chiefly the cultivation of the powers of oral conversation, narration, and description, in the children. Example is the potent influence; and it is consequently absurd to think of an ill-spoken teacher accomplishing anything worth while in this branch. The child's first thoughts will often be expressed in bits of sentences. These he must be practised in amending; and, as time goes on, he must grow into the habit of thinking and speaking in complete sentences. Very important it is, too, that in every class the pupils should be required to attend carefully to the exact form of the teacher's question and in each case to answer the exact question asked. Careful, correct expression is the outcome only of exact thinking.

Oral composition being dwelt upon as essential, written composition will be found to have been deprived of almost all distinction of the position of the tive elements except those of spelling, capitalizing, and punctuation In written composition, the writing of letters may be made the medium for the practice of everything pertaining to literary usage. his reearly, the child evinces a desire to communicate in writing to hasis lations, friends, to Santa Claus, to his teacher; and upon this basis of interest it is ease to continue to minumicate in writing to make lations, friends, to Santa Claus, to his teacher; and upon this basis of interest it is ease to continue to minumicate in writing to make lations. of interest it is safe to continue to rest the teaching of almost every thing that the common schools are thing that the common schools are expected to achieve in English composition. The letter may contain the narrative of a day's doings; the description of things seen and beauti the description of things seen and heard; an account of some person or place or phenomenon studied in or place or phenomenon studied in another class: the method of playing a game: the reproduction of catalogue and country of catalogue and country of catalogue and catalog ing a game; the reproduction of stories read by pupils or teacher of told by teacher; the conveyance of a request, of an expression of thanks, of sympathy: the offer to exchange, thanks, of sympathy; the offer to exchange articles such as stamps, coins, minerals; letters to schools in distant parts of the Empire, be forwarded by the teachers latter than the control of the Empire, and the control of the Empire be forwarded by the teacher; letters to merchants ordering goods, asking for samples or information and merchants ordering goods, asking for samples or information, complaining of non-receipt of goods, paying an account: letters subscribed in the samples of letters subscribed in the samples of letters subscribed in the samples of samples goods, paying an account; letters subscribing to and withdrawing subscription to newspaper or magazine libing to and withdrawing of subscription to newspaper or magazine; letter to the clergyman of the physician asking for certificate of all letter to the clergyman of the physician asking for certificate of all letters to the clergyman of the physician asking for certificate of all letters to the clergyman of the physician asking for certificate of all letters to the clergyman of the physician asking for certificate of the clergyman of the physician asking for certificate of the clergyman of the physician asking for certificate of the clergyman of the physician asking for certificate of the clergyman of the physician asking for certificate of the clergyman of the physician asking for certificate of the clergyman of the physician asking for certificate of the clergyman of the clergyman of the clergyman of the physician asking for certificate of the clergyman the physician asking for certificate of character, of health, or of decination: letter of apology or analysis and decination of the clergy management of the cination; letter of apology or regret; letters of invitation and declinature; letter of application for a situation, etc.

Drill lessons, from dictation on the uses of capitals, of abbreviations, of contractions containing the apostrophe; on the disposing of the several parts of the letter on the paper; on forms of address in letters and on envelopes; on complimentary closing, forms of courtesy. Correspondence is the one form of literary composition that everyone is called upon to execute, and the teacher who makes fair success in this branch may justly be excused if she entirely omits the formal essay, the abstract and the paraphrase. These higher efforts are, in any case, appropriate only to the highest grades.

As many of the errors in written work arise from difficulties of spelling, much written drill is necessary in this branch, especially on words of similiar sound but of different orthography; and it should be kept in mind by the teacher that dictation and written work are ing of these. Pupils who spell orally with accuracy cannot be depended upon to spell correctly on paper unless a good deal of supervised written practice is required from them.

Thruout the grades, to some extent in every lesson,—geography, nature, history, etc.,—opportunity should be embraced to amend and enlarge the child's vocabulary; to practise him in choosing the premaking the connection of thought plain either by the use of formal connectives or of repeat-words. Of course, one must not make composition the dominant element in such lessons. Nor should the in thinking out an answer. Nor should the same child be corrected the point of discouragement.

In the correction of written exercises, which for drill purposes Thould be short ones, as much as possible should be left to the pupils. The teacher may often be able to forecast prevalent errors, or, by upon requiring the pupils to make the corrections. Additional suggestion may be made as to the order of thought, the order of sentences, the sentence-structure, the paragraphing; and the composition, by the pupils. The pupil's own correction and amendment of his another. Moreover, the teacher's time and energy are thus husbanded or other purposes.

Handbooks, etc.: Teacher's handbook recommended for by Ginn & Co.; for grades VII, VIII, "Lessons in English," by Marwhich also has stories and poems suitable to tell or read to pupils.

"How to Tell Stories to Children," published by Houghton, Mifflin & Co., price 50 cents.

Story Readers," for grades I-VI, published by Macmillan Co.; Grade

I, 7 cents; Grade II, 8 cents; Grade III, 9 cents; Grade IV, 10 cents; Grade V and VI, 11 cents each.

A suitable dictionary for pupils will be found in Collins' Pocket Dictionary, 15c. and for the higher grades Chambers' Etymological Dictionary, published by Morang & Co.

#### ENGLISH.

# Special Prescriptions.

#### Grade I.

Reading: First, from blackboard, script as well as print; later, from Reader No. I; brief phonic practises, analytic and synthetic.

Language: Directed conversation centering around children's homes, amusements, pets, and around nature topics. The conversation may be between teacher and pupil and among the pupils them selves, the aims being (a) to promote familiarity and freedom, (b) to cultivate distinctness and purity of utterance, (c) to develop a sense of grammatical correctness and a perception of the sentence.

(The conversation will provide opportunity to correct common errors such as there is, there was two boys; aint; him and me were playing; them books; he don't.)

Recitation of short poems that the children like.

Reading (and re-reading) of short stories, fables, etc., by teacher to pupils.

Spelling and Writing: Copying words and short sentences from blackboard. The period; the question mark; the capital letter for first word in sentence and for pronoun I.

# Grade II.

Reading: From blackboard and from reader No. II, script and print. Brief phonic exercises covering most of the consonant and vowel sounds; names of letters of alphabet; easy oral spelling. Sight-reading from wall-cards or blackboard.

Oral Composition: Directed conversation on nature topics and on the children's games and doings. Story reproduction by the children, the children being encouraged and assisted to make complete sentences. Telling stories from pictures.

Grammar: Incidental correction of common errors such as he speaks quick; It was John and me; He told Fred and I to come; Who did you see? as well as those mentioned above in grade I. These

should be drilled by asking questions the answers to which will involve the use of the correct form or idiom.

Writing and Spelling: Commence making a "school dictionary" of words sounded alike but spelled differently, such as here, hear; eye, I; know, no; this list to be practised and to be enlarged in the next grades above; spelling of words in reading lesson. Capitals for days, months, names of people and places, Mr. and Mrs., Dr. for Doctor.

Period, question mark, period after abbreviations. Short sentences written by pupil telling about something done or seen by pupil or describing something shown or suggested by the teacher.

(For suitable handbook for teacher, see grade I, above.)

Recitation: By pupils, and reading by teacher to pupils, as in grades I, II.

#### Grade III.

Reading: Reader No. III, demanding that the child visualize is not reading). Occasional phonic practise for the benefit of enunciation.

Spelling of words of reading lesson; enlargement of the school board, or wall-cards, or reader. Sight-reading from black-

I and II. Conversation, especially in nature class; correction of errors mentioned in grades I, II, also frequent drill to correct the misuse of the negative, of the superlative of adjectives for the comparative, saw, done for teach, can for may, of did for done, came for come, seen for the three parts of these verbs: thus, do, did, done. Practise them in did you come to school? Have you done your work? Has John come?)

in clear and audible tone.

Written Composition: Capital letters, as in grades I, II, and in writing names, initials, first word of each line of poetry, titles (such as Doctor, Reverend), terms of the Deity. The period, the abbreviation mark, the apostrophe in possessives, the question mark; tionary" of homonyms, as in grade II. and the construction of senand fix the spelling, punctuation, abbreviations. Short stories to written from memory.

#### Grade IV.

**Reading:** Reader No. IV. Mere word-naming should begin to give way to a natural impulse to read with intelligent expression. Sight-reading, from reader or supplementary book.

**Spelling,** of words of reading lesson, oral and written. Homonyms, as in grades II and III, practised and added to.

Grammar: Correction of common errors of speech; those of grades I, II, III continually reviewed, adding the correct use of the pronoun after the verb to be; e. g. It was John and I. It was he. Also, wrong words such as somewheres, nowheres, a good ways or a long ways, he is some (somewhat) better; wrong uses such as There is two books on the table; there was three boys in the hall.

Drill on saw, seen; did, done; came, come; went, gone; lie, lay; sit, set. If a few of these are well drilled, the pupil will become discriminating in his use of strong verbs in general. Have the children practised in riming off the three parts of each verb. Exercise them in answering such questions as What do I do? (Ans. You sit down); What did I do? (Ans. You sat down); What have I done? (Ans. You have sat down).

Teach the sentence (a) by having children careful to speak in sentences; (b) by having them complete unfinished thoughts, orally and in writing, requiring them in writing to use the period properly.

Teach subject and predicate by practising the pupils (a) in dividing given sentences into these parts; (b) by having them supply a predicate to a given subject, and vice versa.

Teach noun, pronoun, verb (in its finite relation only, where it is recognizable by its capability to change its endings to suit the subject).

Oral Composition: Story-telling, story reproduction, and directed conversation, as in grade III. Every class in geography, history, etc., should to some extent be a conversation class.

Written Composition: Abbreviations, as in grades II, III, reviewed, adding a. m., p. m., Jan 3rd, Feb. 14th, etc., arithmetical abbreviations (lb., ft., in.). Contractions: don't, isn't, aren't, I'll, you'll, it's, there's, can't—these to be used in sentences written by the pupil, original and dictated.

Teach and practise the use of the comma to indicate an omitted and, or, nor; and to mark off the word or words by which we address a person (e. g., Come, Fred, and bring your pencil. Come, boys and girls).

Capitals reviewed and their use extended to national names, title, titles of books.

Letter-writing, with attention to margin, superscription of place and date, addresses, salutation, complimentary closing; a letter to a schoolmate, to a dealer ordering goods.

Recitation: With intelligent expression and good utterance, of short prose and poetical selections.

#### Grade V.

Reading: Reader No. V, demanding audible tone, distinct utterance, and intelligent expression, with increasing perception of rhythm and of varying vowel-lengths. (See General Prescriptions: "Reading.").

Sight-reading, from reader, newspaper, or supplementary reader.

Spelling: Of words in reading lesson, oral and written; dictated passages of prose calling for period, question mark, comma. Continued practise on homonyms, that is, words of similar sound but different spelling (See Grade II).

(See grades 1-IV, above). English purged of error and vulgarism; subject of error and vulgarism; subject of study and to the English of the playground.

Review, with practise, subject and predicate, noun, pronoun, and Verb; teach singular and plural, possessive case. (Omit classification by inverted pronouns, and of verbs as strong and weak). Establish by investigation the idea of agreement between the verb and its subject; Ject in respect of number. Derive by investigation the rule (a) for noun plurals in -es, (b) for noun-plurals in -ves. Teach adjective and advertise in -es, (b) for noun-plurals in -es, (c) for noun-plurals in -ves. adverb, if thought desirable; but merely the recognition of these parts of speech, not their classification.

Oral Composition, as in grades III, IV. In geography or nature lessons, see that the pupils speak in complete sentences, and encourse lessons see that the pupils speak in complete sentences, and encourage them to incorporate into their actual speech the conjunctions but, altho, unless.

Written Composition: Chiefly letter-writing, describing to Sports to a dealer, enclosing money, and ordering goods. Letter to the teacher explaining absence or tardiness.

Review the abbreviations, punctuation, use of capitals, etc., of preceding grades.

Teach the use of the comma to mark off the second member of the use of the comma to mark off the second included think Lucy, the girl in the front seat, writes fast? Extend the use

of the comma to indicate an and, or, nor, omitted between longer expressions than single words.

Recitation, in good voice, with distinct utterance and with intelligence, of appropriate selections.

## Grade VI.

Reading: Reader No. VI. For discussion of aim and procedure, consult the introductory article, "Reading: The Higher Grades."

Spelling: from reader. Homonyms, continued, in dictated sentences. Word-building. The teacher should train the children to the use of the dictionary.

**Grammar:** The several parts of speech, their functions and relations. (The adjective, the adverb, and the verb, can each be recognized with certainty only by its relations with other words in the sentence.) Change of function involves change in the part of speech of the word, as in the sentences, The leaves fall; Thomas had a bad fall on the ice. Extensive practice should be given in this subject, in order to develop the perception of 'part of speech.'

There are four chief rules of syntax that bear upon the correction of errors of speech. What are these? Have the pupils derive and state these, each from sentences given them by the teacher. See that these rules remain operative in their speech.

The following are the rules:

- (1) A plural subject requires a plural verb; as, The two boys have their books: Each person has his book; Neither John nor James has a pencil. People are queer. The boy and his sister are Many of us have seen them.
- (2) The plural adjective requires a plural noun; as This soit of apple: That kind of man; These sorts of apples; Those kinds of potatoes.
- (3) Transitive verbs and prepositions govern the objective case; as, Whom did you meet? Whom did you give it to? I see the girl (whom) you like best. The boy (whom) I spoke to is my cousin, Fred. She spoke to him and me. Between you and me.
- (4) The subject of a verb must be a nominative case; so must the subjective complement; as, Those books (not them) are mine These are my books; He and I are going to have a race. Do you know who came in? It was he that did it.

In order to teach these rules, the teacher must teach transitive verb, preposition, object and objective case, subjective complement.

Oral Composition, as in Grade V; history stories retold and rewritten by pupils.

Written Composition: Letter-writing, as in Grade IV, extended, with increasing attention to material form, neatness, forms of courtesy; making out an account, a receipt in full, a receipt on account. Punctuation, reviewed, with repeated practise.

The use of the comma to mark off expressions beginning with if, end of the sentence. Other uses of the comma reviewed, with written practise.

Story-reproduction, taking care that sentences are complete and the period, comma, abbreviations, apostrophes, capitals are correctly used.

Recitation, as in Grade V.

#### Grade VII.

Reading: Annual Prescriptions (Consult the introductory araccent recognized.

be freely used. (See Grade V.) Word-building from common roots, white (whiten, whiting). A few affixes, such as, trans, less, re, in, un, (involve, revolve, revolution, convolvulus); frag (fragment, fragile, reference.

How a simple and rational method of spelling would promote education and especially the education of the masses. An average ing to present system, under a rational system spelling could be mastered in two months.

Grammar: The several parts of speech reviewed, with firsthand inquiry into the function of the adjective as a limiting word; of the adverb as the modifying associate of adjective or verb; of the verb as moods); of case in nouns and pronouns; of the subject as active and when they occur as subject or as object (noun-groups); when they when they occur as subject or as object (noun-groups); when they when they explain some verb or adjective-groups or enlargements); expressions).

Review the four rules of syntax and have class apply them to doubtful expressions heard in school or playground.

Oral Composition, as in Grades V, VI, encouraging the growth of vocabulary of the pupil and a variety of thought-connectives, as in Grade V and in written composition, below.

Written Composition, as in Grade VI, exacting closer attention to detail, forms of courtesy, completeness of statement, use of period, comma, abbreviation marks, capitals. Telegrams, advertisements, business letters, practised. The uses of the comma reviewed; those affecting nominatives of address (See Grade IV), appositional expressions (see Grade V) and adverbial expressions or "adverb-groups (see Grade VI) explained and reworded in grammatical terms. Exercises in changing from direct to indirect narration and from indirect to direct, with use of quotation-marks.

Exercises in combining short sentences into longer ones.

Abbreviations: C. O. D., via, vol., inst., prox., ult., viz.

Practise, orally and in writing, use of the thought-connectives, however, still, nevertheless, moreover, in spite of.

Recitation, as in Grade V, but cultivating the power of speaking slowly and deliberately and of sustaining the voice on long vowels.

# Grade VIII.

Reading: Annual Prescriptions. (Consult introductory article "Reading: The Higher Grades.").

Metrical feet and metrical accents recognized and applied in the pupil's reading of poetry. Metaphor and simile, personification, allegory, recognized.

Spelling, as in Grade VII, continued and scope somewhat enlarged. Increasing use of home-dictionary.

Grammar: The parts of speech recognized by function and relation. The relative pronoun, its number and gender, its relation with its antecedent, and its case relation with some verb or preposition within its own clause.

The clause, a word-group which contains subject and predicate.

The phrase, a word-group which has no finite verb, and which therefore lacks subject and predicate.

Testing of clauses and phrases to discover whether they are (a) noun clauses with case-relation, (b) adjective clauses limiting some

noun or pronoun, or (c) adverbial clauses; noun phrases, adjective phrases, adverbial phrases (omit the useless classification into infinnitive phrases, gerundial phrases, etc.).

The complex sentence analyzed into principal and subordinate clauses. Each clause to be analyzed into simple subject, enlargement extension (if any), predicate verb, object (if any), complement, and adverbial extension (if any).

Moods and tenses of verbs (see "General Prescriptions: Gram-

Oral Composition, as in Grades V and VII. Practise also use of accordingly, in accordance with, provided, in view of, and their equivalents. The importance of synonyms illustrated by a few cases such as discover, invent; only, alone; description, narration; can, may.

Practise on antonyms: e. g., delicate, robust; valuable, worthless.

Written Composition, as in Grades VI and VII. Letters in reply to advertisements; letter of application for position; letter subletter declining to newspaper; discontinuing same; letter of invitation; acter; to physician, asking certificate of vaccination. If time affords, letters from pupils to pupils in an Australian school, to be forwarded thru the League of the Empire, London, England.

Punctuation practised, as in Grade VII. Teach the use of the semicolon. (When a sentence falls manifestly into two or more indecommas, thought-units, some of which already contain a comma or visited the separate the thought-units by a semicolon; e.g., "We and Wolfville, the seat of Acadia College." "If you can answer, do but don't speak unless you can say something to the point."

Recitation, as in Grade VII.

#### WRITING.

the Children will in time learn to write somehow, no matter how poor instruction, and some may even learn to write well with a mini-will learn to be good penmen if their instruction is of that sort that besubject to master, and it is inexcusable in a teacher to be content with and unless the progress of a year marks an increase of fluency.

Neatness in writing proceeds from uniformity, chiefly uniformity height and slant; from a well-kept margin, and from cleanliness.

letters, is dependent also upon uniformity of hight and slope.

Fluency comes from well-directed practise (which is an easy thing to say), and it is just how and when to accomplish this that teachers are often uninformed. 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," (Copp, Clark & Co.,) will easily 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 on loose practise-paper: exercises in tracing scrolls, spirals, continuous m's, e's, i's, circles, loops, 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. Instruction, 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.

Observation of the child in the earlier efforts of writing shows that there is always an excess of muscular activity, the nervous impulse being diffused thru muscles that should be at rest. Thus, the child is likely to grasp the pencil too tightly, to pucker his face, to move his head or his body. These movements, tho unnecessary, are natural, and can be overcome gradually. The teacher can contribute to overcome them by seeing to it that the child's desk is not too high or too low, that his bodily posture is comfortable and correct, and that paper and arm are correctly placed.

One must not expect good writing earlier than grades five or six. Good writing requires not only a steadiness of the members chiefly concerned, whether fingers, forearm, or arm, but a steadiness of the whole body which no child can maintain except for a very brief period. Especially are good and easy finger movements not to be looked for; for the minor muscles that control the fingers develop their control much later than the fundamental muscles such as those of the arm. From the sixth to the ninth or tenth years, the fingers appear not to gain at all in power of control; after that, until about the sixteenth year, they gain steadily. On the other hand, the control of the wrist develops earlier than that of the finger, and that of the forearm much earlier than that of the wrist. All of which implies that the child's best work in the first four grades will be in whole-arm writing on the blackboard, and next to that in forearm movements at his desk, although the sixteenth of the sixteenth of the sixteenth of the wrist. All of which implies that the child's best work in the first four grades will be in whole-arm writing on the blackboard, and next to that in forearm movements at his desk, although the sixteenth of the sixteenth of the sixteenth of the sixteenth of the wrist of the sixteenth of the wrist of the sixteenth of the wrist of the sixteenth of the sixteen

In the first stages correctness in perceiving and forming the letters is the chief consideration. The child's natural efforts will be slow finger-movements. Very little exercise should, however, be given on the letters of the alphabet as separate and detached. Better results are obtained by practising the child to write whole words, the aim being as quickly as possible to make the correct writing of the word an automatic feat. Any lines except the base as guide lines are a positive hindrance to beginners. The eye will keep track sufficiently of align

ment and spacing, while the formation of the letters is chiefly a muscular and tactile result which is sought to be rendered automatic. Writing periods should be very brief. Only successful practise counts; the protraction of the task until the movements become irregular and inaccurate, means the establishment of irregular and inaccurate automatisms. Indeed, the law of short exercises is of almost universal validity.

In the earlier efforts the child will produce all the strokes and curves, upward and downward, at equal pressure. The word which he writes is not produced as one total impulse but as an aggregation of separate impulses. In shaping the letters dependence will be placed almost entirely on sight and very slightly on muscle and tactile sensation. Training in writing, therefore, is accomplished by patient and repeated practise having in view the dependence more and more upon muscle sensation and upon making writing an automatic feat.

Careful investigators have decided that for uniformity of slant, accuracy, and speed, the forearm movement is by far the best of all movements used in writing. By this movement is meant the free movement of the forearm supported upon its pad of muscle. The whole of the forearm need not be upon the desk, only the pivotal muscle-pad. By the time he reaches grade five the child should have some fluency in forearm writing. His rate of writing should then be hastened, the increase of speed necessitating and encouraging the co-ordination of finger and wrist movements.

Finally, as to practise: The copy-book must not be much depended upon except as a guide to the correct form and construction of the letters. Ornament, shading, and flourish form no part of the requirements. Penmanship must be pronounced excellent when the movement is fluent, when the letters are correctly formed and uniform in slant and height. Do not increase the child's difficulties by introducing new and bizarre forms of the capitals or small letters. Choose the simplest forms; use these and these only; and insist upon the pupil using them. Do not let the school see any untidy or careless writing on blackboard or elsewhere. Take pains with your own writing, and be vigilant and exacting with pupils. Copybook practise in the emphasis upon visual control, not upon muscle control, and it therefore tends to discourage that automatism which is a proper paper, either with pencil or with pen.

Too much direction of the beginner in holding the pen is not prusquarely. The pupil should sit erect and forward near the desk, both feet supported on the floor, both forearms on the desk, the right forearm lel with the desk, the left arm wholly supported in order to steady the when grasped lightly between the slightly bent thumb and first and second fingers, the penholder crossing the hand at the upper finger. The hand should glide forward upon the little finger.

Even when reduced to its simplest terms, the art of writing a word is a very complex feat. First, the form of the letter must be perceived in detail, and to aid the pupil in visualizing it various devices are practised; for example, the teacher slowly and repeatedly traces it on the blackboard, or the pupil traces it on dotted lines; Direction of path in forming the letter must be noted. cular coordinations required to trace or to write the letter must be In the meanwhile the position practised until they are automatic. of pupil, of arm, of book, of pencil, must be gradually brought to conform with correct method, and reduced to a fixed habit. To secure this a short formal lesson must be given each day. Method and watchfulness in the first four years will leave no essentials to be dealt with later, but for a teacher to set out with the comfortable doctrine that things will come right of themselves, is intolerable. come right, but in the meantime, the child may have expended undue time and energy upon this merely mechanical task; or he may have left school, and, thru deficient penmanship, may have forfeited golden opportunities.

In the first two or three grades no copy-book need be used, the blackboard supplying the copy. The writing may be done with crayola and lead pencil. In Grade III, pens (rather coarse) may be substituted for pencils, and the copy-book may be introduced in the progress of the year. From this time onward the teacher should look for steady improvement and should follow a progressive series of copy-books involving no change of slant or of general make of letters.

As soon as convenient the child should be shown how to make use of his powers of penmanship. Writing is not an end but a means, and this the child realizes to his great delight when he has been taught to write a note to parent, to Santa Claus, etc. A motive is now provided for doing his best, and this motive should be kept operative in subsequent exercises, in correspondence, business forms, themes, etc., thruout the grades. The execution of the written tasks presents a field of skill not only in composition, but in margining and spacing, and in the tricks of penmanship; and the pupil should grow to regard as discreditable a written production lacking in form.

# ARITHMETIC.

# General Prescriptions.

The teacher should regard arithmetic and arithmetical training solely as a utility. The processes taught are taught for their usefulness present, or prospective, and not for any fancied disciplinary values. Mathematical thinking is in a class by itself. Arithmetical training enables us to think quickly, accurately, and logically in terms of number or number-relations; not in terms of qualities, forms, people, or natural phenomena.

This being the case, recent school arithmetics have pruned this subject of all dead-wood, unproductive limbs, and false growths. Among these are such topics of school study as apothecaries weight,

troy weight, the surveyor's table, prime factors, greatest common measure, least common multiple, true discount, cube root, equation of payments, partnership.

The duties of life call for, accuracy and rapidity in the four fundamental processes operating on integers and fractions, and in simple problems applying these processes to the common and real problems of life; a knowledge of the tables of measurement in common use; of percentage, and familiarity with its application to ordinary affairs wherein it operates; some general information concerning business practises in accounting; and, lastly, familiarity with the methods of finding the surfaces of a few geometrical figures and the volumes of a these essentials consumes time which might better be devoted to other ends.

In the primary grade use should at once be made of number know-ledge already possessed by the child; for example, of his ability to count, which may immediately be exercised in various ways, and which he may be enlarged and rendered quicker and more certain. Thus, girls, the number of absentees, the number of pencils or slips of paper on the the clock-face; to name the numbers on pages of the primer; to measure with the foot rule; to divide groups into halves, etc.

New number facts and number relations should be presented in twelve. Illustrations or examples should preferably be taken from should be provided and the situations reproduced.

In the higher grades rules should not be given readymade. The formulate the rules they are to memorize and apply.

The reality of arithmetical processes is enhanced by grouping done. For example, a store gives point and reality to processes of receipts. The post office or bank suggests various related problems suitable to the upper grades.

line, Reality may be given to a problem by having pupils take the tape lem outlined, measuring cup, or balance, etc., to obtain the data for a problem outlined by the teacher or, better, suggested by the pupils. Pupils, of the book but suggested by mechanical processes, fence-building, work upon with more zest than upon the stereotyped ones of the book. Provinces, the representation, the mines, education, and the like, the

working of which helps to fix in memory important knowledge of our country and its activities.

Arithmetical practises should have regard not only to exact calculation but to mental approximation of values, additions, interest due, quantity of material needed for stated purposes. Besides this, the senses should be practised to judge hights and distances, longer and shorter; volumes, such as pint, gallon, cubic foot, cubic yard; weights, such as pound, two pounds, ten pounds.

The value of drill,—mechanical drill, mental and written, on abstract and on concrete numbers,—'in season and out of season,' cannot well be overestimated. Exercises should be continual in addition, in multiplication, in fractions, in reducing, in dealing with fractions, etc. The first essentials are accuracy and neatness. To these must be added later, speed. Drill must not be abandoned in the upper grades, for here is the place to make much of "speeding-up" processes. It must, however, always be kept in mind that drill-exercises for accuracy and speed are very fatiguing. Ten minutes at one time is a long enough lesson of this sort.

Finally, as to the written statment of the arithmetical problem. The so-called Unitary Method is overdone in many schools. Carried too far, it is a waster of time and an enemy to good arithmetical habits. In the first application of a process or rule, the unitary statement is desirable because it requires a full explanation of the process. however, the pupil has become familiar with the arithmetical reasoning involved, the full and labored statement should be omitted, or at least greatly condensed. It may be entirely omitted where the teacher assiduously practises the pupils in oral statement of the method, clearly and accurately expressed—a practise of some value, too, the improving and enlarging the language of the pupil. The bulk of class-work and written work should consist of the working of problems without the words of explanation written down by the pupil, althowing figures may follow the order and obey the relation of the omitted statement.

#### CAUTIONS:

- 1, Against fatiguing the pupils by long and unvaried tasks;
- 2, Against giving the pupil a second trial on a drill problem; have him understand that he must not make mistakes, for every mistake is so much training for another;
- 3, Against proceeding too fast and before absolute mastery has been attained;
  - 4, Against preferring the text-book to yourself as a teacher;
  - 5, Against forgetting to review frequently;
- 6. Against trusting much to singsong repetition by pupils simultaneously.

Handbooks Recommended:—D. E. Smith's Arithmetics, pub. by Ginn & Co., Primary, 35c.; Intermediate, 40c.; Advanced, 45c.; Handbook to accompany these, 50c.

#### ARITHMETIC.

## Special Prescriptions.

## "Mental" Work: For All Grades.

"Mental" arithmetic should be given at least twice a day, in periods varying from five minutes in grade I to ten minutes in the upper grades. Such exercise may take the form of

- (a) practise in recognizing at a glance the sum, difference, etc., of two numbers written on blackboard;
- (b) oral practise in the four fundamental operations on abstract numbers;
- (c) practise in solving concrete problems by the quickest and most direct methods.

There are forty-five combinations in addition of numbers from one to nine; and these may be learned best by practising them in the the next. (The combinations may be used to build up columns for addition; they may also be used for practise in adding twenties, thirties, fifties, etc.)

GROUP 1.						
$\begin{smallmatrix}3 & 4 & 3 & 2 & 6 \\ 2 & 5 & 9 & 2 & 4 \end{smallmatrix}$	and reverses	<b>4</b> 6	$\frac{2}{2}$	9 3	5 4	$\frac{2}{3}$
$\frac{1}{5} \frac{1}{9} \frac{1}{12} \frac{1}{4} \frac{1}{10}$		10	4	$\frac{-}{12}$	9	<u>5</u>
GROUP 2.						
$\begin{smallmatrix} 3 & 4 & 3 & 2 & 2 \\ 6 & 9 & 3 & 6 & 8 \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & \\ & & & \\ & & \\ & $	and reverses	6 2	8 2	3 3	9 4	6 3
$9\ \overline{13}\ \overline{6}\ 8\ \overline{10}$		8	10	6	13	9
GROUP 3						
9 13 6 8 10 GROUP 3. 2 8 4 5 7 4 6 4 8 3	and reverses	8 5	3 7	4 4	6	4 2
$6\ \overline{14}\ 8\ \overline{13}\ \overline{10}$		13	10	8	14	6
CROUP 4.				_	_	_
5 7 3 8 5	and reverses	8	3 5	<b>5</b>	7 6	5 2
7 13 8 15 10		15	8	10	13	7

GROUP 5.  7 6 7 9 4 9 6 2 9 8	and reverses	8 9 6 9 2 4 9 6 7 7
<b>16 12</b> 9 18 12		12 18 12 16 9
GROUP 6.  7 3 5 9 9  7 4 7 2 1	and reverses	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
GROUP 7.  8 9 6 7 9  8 6 5 1 8   16 15 11 8 17	and reverses	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
GROUP 8.  1 5 7 2 8  8 9 4 1 3  9 14 11 3 11	and reverses	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
GROUP 9.  1 1 1 1 1  1 3 4 5 6	and reverses	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

In regard to concrete problems it is to be recommended that these be practical and as far as possible associated with the children's interests and activities. Children should be encouraged to make up problems and to give them in school.

In the higher grades a premium should be put on the use of shortened methods.

## ARITHMETIC.

#### Grade I.

Counting: Objects in room, on desk, boys, girls, windows, things in pictures, spots on dominoes; length of desk in feet; of room; hight of pupils, of desk, etc.,

Combinations: Of numbers to 20, with frequent excursions into higher numbers. For example, after teaching 4+2=6, refer to 24+2, 34+2, etc. Analyzing group of pebbles, heads, beans, into constituent groups in order to discover the combinations producing the total.

The ounce, the pound, the pint, the quart, the foot, the inch, their relations incidentally touched on. (The teacher, for example,

may supply pound and half-pound bags of sand, paper vessels to hold a pint, a quart.)

**Busy-work**: Copying and writing of figures; of number combinations discovered from objects; measuring lengths of book, of desk, etc.; playing games and keeping score.

Mental Arithmetic: Practise in addition and subtraction from the nine "groups" given above. (The two numbers should be written on board and the sum of the two numbers put down, the teacher then requiring the full statement, e. g., six and three make mentirequired.) Then the sum of the two numbers may be erased and the statement required.) Practise the pupils also in giving merely the sum of two numbers written on board, without making the statement.

#### Grade II.

Reading and writing of numbers to 1000.

ing, Adding and subtracting of numbers to 1000 involving no carry-carrying and borrowing.

Multiplication table begun to be built up by pupils from their other tables, as time may permit. Terms half and quarter used of material things; the square inch and the square foot.

Mental work, the nine addition groups continued with rapid dozen articles at two cents, four pounds at five cents, three quarts at cents, etc.

#### Grade III.

Reading and writing of numbers to 100,000.

Adding and subtracting, with borrowing and carrying.

Multiplication-table complete.

Short division, for finding half, quarter, and eighth of numbers than 100. Drill on making change from \$1.00. Statement of less in solving concrete problems. Drill in factors of numbers than 100.

#### Grade IV.

Multiplication by factors; shortened multiplication by 25, 125, 11; division by factors.

Oral multiplication, addition, and subtraction of halves, quarters, eighths and sixteenths, illustrated in the foot-rule; oral reduction of mixed numbers and improper fractions taken from the foot-rule. The same relations may be illustrated by means of circular discs of cardboard divided into halves, quarters, eighths, etc.

Long Measure, omitting rod and furlong; and Avoirdupois Measure, omitting the quarter, practise in use of, as well as practise in judging lengths and weights.

## GRADE V.

Tests for divisibility, by 2, 5, 3, 9, 11, 4. Cancellation. Multiple and Common Multiple, dealing with small numbers only

Fractions taught: reading and writing of fractions; the terms numerator and denominator; improper fraction, etc. In addition and subtraction of fractions, denominator not to exceed 100. Changing easy vulgar fractions to decimal form, and then adding them or subtracting them; multiplication and division of easy decimals not less than one tenth; drill in reading and writing decimals to one hundredth.

Use of decimals as involved in practical abstract problems with Canadian money.

## Grade VI.

Easy complex fractions, and the solution of practical problems involving their use.

Decimal fractions: Processes and applications extended. Aliquot parts of 100. Per cent. as the business man's decimal fraction; drill on the percentages corresponding to one half, one quarter, one third, three quarters, etc.

Long Measure completed, omitting use of furlong; practise in estimating the units inch, foot, yard; also 10 feet, 100 yds., 220 yds, 440 yds, half mile.

Avoirdupois Measure completed, omitting the quarter; practise in estimating weights up to ten pounds; practise with home-made balances and weights.

Surface Measure: Easy problems in shingling, painting, papering, plastering, carpeting: approximating cost of such operations; exact cost. Board-measure.

Cubic contents, of rectangular solids, masonry-work, etc., where dimensions are given in only one denomination (i. e. in either inches, or feet, or yards).

**Reduction,** involving only three terms; thus, yards to feet and inches, miles to yards and feet, and *vice versa*, but not miles, rods and yards to feet and inches, or miles to rods, yards, inches.

Changing Canadian money into £ s. d., and vice versa.

#### Grade VII.

Compound addition and subtraction, with not more than three terms in any problem.

More practise on the Weights and Measures: Measuring dimensioned lumber. Various problems involving percentage.

Simple Interest, the process of finding this developed by the pupils. Ready reckoning of simple interest by the sixty-day method. The promissory note; its conditions of payment.

**Discount** allowed for cash payment—compute this. Discount allowed for present payment by holder of promissory note,—compute. (No allusion to True Discount permitted).

Taxes on Real Estate (explain), on Personal Property (explain), tions—explain.

Assessment, assessor, exemperations—explain.

Area of parallelogram, of triangle, of circle, of trapezoid; of cylinder and cone; practical problems involving these.

**Problems,** in computing customs duty.

#### Grade VIII.

Volume of any right solid, of cylinder, of cone, Area of irreguing quadrilateral obtained by plotting same, (see Mathematical Drawof wood. Simple problems in specific gravity of lead, of iron, rulers provided with linear divisions; the English equivalents given approximately.

\$ion and brokerage. \$\forall \text{price} and brokerage.

Mortgages and debentures explained; stocks; ordinary problems in these.

Paper money,—what gives it value? How it differs from ordraft, promissory note. How to remit money; how to make a

The Day Book, Cash Book, Ledger,—how kept. Capital, Shares or Stock, Dividend, Bonds or Debentures, Preferred and Common Stocks, Watering of Stock,—explain.

The use of x to solve easy arithmetical problems as equations, and the evaluation of ordinary mathematical formulae involving literal quantities.

GEOGRAPHY.

## General Prescriptions.

Teacher's Handbooks: For first year grades, "Lessons in Home Geography," by H. Fairbanks, published by Educational Publishing Co., Boston (price 50 cents); for Grades V and VI, "Our Home and its Surroundings," published by Morang & Co., Toronto; for Grades VII and VIII, handbook on commercial geography, Mill's "Elementary Commercial Geography," published by Cambridge University Press, (price, one shilling); Sir A. Geike's, "The Teaching of Geography", Macmillan Co., (price 60 cents).

In the first three grades the term geography need not be employed. During that time, however, the teacher should endeavor to bring the pupil into sensible contact with the most conspicuous phenomena of earth, sky, sea, plants, animals, and mankind, detailed treatment of many of which phenomena is indicated in the Nature-Study course. The sense experiences obtained by the child in these contacts with nature; the elementary conceptions of position, form, size; of physical forces and changes; of man as an industrial and social factor; of soil and of the products of nature and of cultivation; of color, land scape, clouds, hill, pond, brook, slope, forest, marsh, constitute a medium of interpretation of what he later will read in text-book and elsewhere. They form the apperceiving masses into which new experiences and new facts obtained from reading will seek to incorporate themselves.

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

This power of re-presenting mental images is a mental function of the highest importance. It is one of the forms of memory and is the basis of imagination. Without it neither geography nor history mental content—they degenerate into a memorizing of mere words.

In the fourth year, some attempt may be made to relate earth, phenomena; and here, accordingly, the study 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 that merely 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 causal function. The relation between brook and brooklet or ditch is to be thought of as typical of rivers and their tributaries. So of lakes and swamps and basins; of snow, rain, the clouds that discharge them; the slopes that shed them, the ditches and brooks that receive them.

The study of causal relations ought not to be carried too far, especially in the realm of natural phenomena. Much more interesting ing to the child, and, consequently, more educative, is the observation of him the child, and, consequently, more educative, is the observation. of human activities in relation to the earth and sea and their products. Home geography, indeed, may well begin with a view of the industries of the neighborhood. Everywhere in Nova Scotia either farming or sardening 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 district, all of them directed to the end of supplies. All men supplying man's wants. Mankind must work, or perish. All men and women do not pursue the same calling. Diversity of industry necessity. cessitates exchange of products—trade or commerce. A detailed survey of the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the humblest school-section will be the industrial activities of even the industrial activities of even the humblest school-section will be the industrial activities of even the industrial activities of eve provide material for many thought-provoking lessons of surpassing included material for many thought-provoking lessons of surpassing included and contribute. ing interest to children—lessons to which each child can contribute. No little measure of the value will accrue, in fact, from this very participation upon cipation of the child in the radiant, unrestrained conversation upon the fact of the child in the radiant, unrestrained conversation upon the fact of the child in the radiant, unrestrained conversation upon the fact of the child in the radiant, unrestrained conversation upon the fact of the child in the radiant, unrestrained conversation upon the fact of the child in the radiant, unrestrained conversation upon the fact of the child in the radiant, unrestrained conversation upon the fact of the child in the radiant, unrestrained conversation upon the fact of the child in the radiant, unrestrained conversation upon the fact of the child in the radiant, unrestrained conversation upon the fact of the child in the radiant, unrestrained conversation upon the fact of the child in the radiant, unrestrained conversation upon the fact of the child in the radiant. the farming, dairying, gardening, orcharding, cider and vinegar-making, controlling, controlling ing, Canning, dairying, gardening, orcharding, cities and thing, quarying, Canning, preserving, fishing, curing, boat-building, mining, quarying, limit shoe-making. Then ing, lumbering, sawing, wood-working, tanning, shoe-making, there are facilities by road, river, sail, see there are the transportation facilities by road, river, sail, sea; the means the transportation facilities by road, river, sail, sea; the means of communication by post, telegraph, telephone; the churches, school of communication by post, telegraph, telephone; the churches, schools, societies, the country-town or nearest market-town and its relation to the surrounding country.

The mention of towns, etc., that lie immediately beyond the horizon suggests still another topic of the fourth year—the outer world importance of such a method of approach as that indicated in the work point where we must deal with places, people, and processes that lie child. Facts are to be presented—facts relating to material things; nearly statements of fact, but images. And how?

The presentation of distant places, people, institutions, industives, calls for mental pictures composed of simple elements—just such and experience and thru the exercise of imagination and recall, the combining to produce fairly definite and complete mental pictures of the 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 panorama of lofty mountains, deep valleys swift-flowing rivers; of forested slopes, and foot-hills overtopped by bare, rocky summits; of lumber and mining camps; of lakes, of valley and upland farms, ranches, orchards; of widely scattered towns and villages; of sea coast, bays, harbors, promontories and islands; of industries and activities similar to those of our own province; of people of our own race, language, customs and sentiments. Each view of this varied scene is capable of being constructed by the child out of fundamental ideas obtained either at first-hand, or thru pictures or thru 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. Reliance upon that agency is disappointing. From the book a child will easily enough learn to say, for example, that lumbering is one of the chief industries of a certain country, without his ever once considering what is implied by that statement. Probably he has seen logs floated down stream to the mill, or has witnessed some other part of the operation of lumbering. But that does not ensure his associating what he has seen 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 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 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 proceeding to the committing of text-book statements bears no fruit in the power of mental imaging or in genuine interest of an intelligent kind. Permitting the child to recite what he reads without giving mental content to it is to establish mental habits as without giving mental content to it is to establish mental habits as office of good 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 and of distant lands and peoples a mind stored with clear and definite geographical ideas developed, as far as possible, thru actual contact with the phenomena of earth and man manifested in his own environment.

In the geography of the upper four grades the general method will remain the same. Innumerable are the teaching-devices to be resorted to; but, as the aim remains the same as in grade four,—that of extending the pupils' knowledge of the earth and of man's relations 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 thru the avenues of the child's experiences and evolve the idea of the map as a pictorial representation of the ground upon which we stand. The floor of the schoolroom affords a first problem in map-making, then the location, upon this plan, of the platform, the teacher's desk,

and the front seats Drawing to scale ought not to be required at first, as this tends to complicate the problem. Next, the school grounds, the trees, fences, paths, gates, may form material for a new and larger map. Later, the public highway 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 fairly well represented, there need be no worry about drawing to scale. Direction, in terms of the compass, is pertinent here. The first maps may be drawn with chalk upon the floor. They may be modeled in sand in a shallow box, buildings being represented by blocks, trees by tiny bits of evergreen, the brook or pond by a bit of mirror glass, the rail-road by two wires—the result being an approach to reality which appeals to the child's interest.

From this point to the regular wall-map is an easy step; and the map of Nova Scotia may be presented in its simpler implications of land, water, coastline, distances, directions, localities, towns, industries, before the end of the fourth year. No point is gained 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 the child. One might safely, on the other hand, proceed at once to the globe and the hemispheres, coming back later to the Province. Of ccurse, the earliest study of the globe is to be, not continent, ocean, islands, seas, gulfs, and a few great countries and cities.

The introduction of the text-book in the sixth grade necessitates Care on the part of the teacher to prevent geography from becoming a merely literary study. The text should be relied on chiefly to provide state. statements of fact for interpretation by the pupil under the stimulus of the of the question, suggestion, or interpretation of the teacher, special effort being made to set forth the facts in their causal or other relabunit being made to set forth the facts in their causar of the punit to one another or to facts coming within the experience of the pupil. One another or to facts coming within the the factor of the text-book may, for example, state in disconnected fashion the factor of the sand prothe facts of the size, surface, soil, climate, mountains, cities, and products of the size, surface, soil, climate, mountains, cities, and products of the size, surface, soil, climate, mountains, cities, and products of the size, surface, soil, climate, mountains, cities, and products of the size, surface, soil, climate, mountains, cities, and products of the size, surface, soil, climate, mountains, cities, and products of the size, surface, soil, climate, mountains, cities, and products of the size, surface, soil, climate, mountains, cities, and products of the size, surface, soil, climate, mountains, cities, and products of the size, surface, soil, climate, mountains, cities, and products of the size, surface, soil, climate, mountains, cities, and products of the size, surface, soil, climate, mountains, cities, and products of the size, surface, soil, climate, mountains, cities, and products of the size, surface, soil, climate, mountains, cities, and products of the size, surface, soil, climate, mountains, cities, and products of the size, surface, soil, climate, mountains, cities, and considerate of the size, surface, soil, climate, surface, soil, climate, soil, climate, surface, soil, climate, surface, soil, climate, soil, climate, surface, soil, climate, s ducts of the size, surface, soil, climate, mountains, critics, and tween of Russia, without at all indicating the necessary connection between of Russia, without at all indicating the necessary connection between of Russia, without at all indicating the necessary connection between of Russia, without at all indicating the necessary connection between of Russia, without at all indicating the necessary connection between of Russia, without at all indicating the necessary connection between of Russia, without at all indicating the necessary connection between of Russia, without at all indicating the necessary connection between of Russia, without at all indicating the necessary connection between of Russia, without at all indicating the necessary connection between of Russia, without at all indicating the necessary connection between of Russia, without at all indicating the necessary connection between or the necessary connection between or the necessary connection at the necessary connection between or the necessary connection at the necessary connecti tween any or all of these. What is aimed at in good teaching is to develop any or all of these. velop out of these statements and from map-study a picture of Russia as a low flowing rivers, farms, grainas a large country of plains, forests, slow-flowing rivers, farms, grain-fields. The country of plains, forests, and of seasons much like those fields, villages and towns; of a climate and of seasons much like those of the villages and towns; of a climate and of seasons much like those of the same latitudes in America, and, therefore, with much the same vegetations and industries; with vegetation and the same agricultural operations and industries; with villages and distributing-centers, as villages and towns serving as markets and distributing-centers, as manufactures and towns serving as markets and distributing-centers, as manufacturing centers and as seats of government; with rivers and lakes frozen in winter and closed to navigation, as with us; with a northern in winter in the control winter like our own Northumbernorthern seaboard shut in by ice in winter like our own Northumber-land chiefly in tilling the soil, raisland Strait; with a population engaged chiefly in tilling the soil, raising castal ing cattle and horses, dairying, lumbering, and mining; with a Christian poster and horses, dairying, lumbering, and other ideals like our own. tian population devoted to family, country and other ideals like our own.

the This elaborate mental picture is derivable from the map and from disconnected facts of the text; and it serves as a type of the men-

tal imagery to be sought by the teacher in studying a country. Current events as recorded in the newspaper should always be utilized, and given their proper setting in place, politics, social or industrial conditions. Minor problems will continually present themselves, such as, for instance, the advantages of a certain location for a town, or the explanation of the rapid growth of a community, either of which problems is best understood when paralleled by the study of similar problems in Nova Scotia. Thus, Halifax, Sydney, Amherst, Spring hill, Glace Bay and Yarmouth are illustrative of the conditions presented in the general problems of location and rapid growth.

Then there are the numerous physiographic problems of erosion, alluvial deposits, tidal phenomena, which, out of place in the lower grades except in their most obvious aspects, are capable of being understood as they concern distant countries once they are revealed as the counterpart to natural forces near home. These must not be overlooked. Again, there are the simple astronomical phenomena. ther, there are the events of Canadian and British history, whose 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 moral-religious sense and an increasing knowledge of history, of natural phenomena, of physical 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 foreign lands, of distant peoples, should be conducted with a view to developing in the pupils a human interest in the people of strange lands and in alien races. The effort to appreciate what is worthy in men of other race and language and to promote a human sympathy between our people and those of lands can hardly fail to bear fruit in temperance and tolerance at home, in a more intelligent Canadian patriotism, and in a saner and safer Imperialism. The annual recurrence of the festivals of July the First, Imperialism. The annual recurrence of the festivals of July the First, Imperialism, geographical and historical, appropriate to the age and intelligence of the pupils.

(Note on School Excursions. Plan beforehand, and inform the children what you want them particularly to make observations upon. Don't overlook the fact that 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 then and have them consider, in class-room fashion, anything worthy of observation or discussion. On the return to school, or on the following day, review the event and the things seen and discussed. In a miscellaneous school, the teacher might utilize as assistants in conducting the younger children, older pupils or outsiders.)

#### GEOGRAPHY.

## Special Prescriptions.

## Grades I, II, III.

Talks with pupils about the seasons as they pass, with no attempt to explain them; the older people's occupations appropriate to each; the summer and winter pastimes and home-duties of the children; the low winter sun observed at noon, the early lamplight; the high June sun at noon, and the long day; the trees, their changes; the weather day by day; color changes in forest, field, meadow, and sky, as days and seasons pass; changed condition of ground, brook, pond, plants; our summer and winter foods; housing and feeding of farm animals, and storing of winter supplies for man and animal; the arrival and the departure of birds; preparations for winter made by squirrels, bees, bears, and by caterpillars and other insects.

The country store or the town shops. The things the farmer, the fisherman, the 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 curing of all and each will afford material for observation and explanation, 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 conriver, hilltop, to the brook, brooklets, ditches, to a valley, a forest, ial attention being paid to these as serviceable to man.

## Grade IV.

Home-geography, beginning perferably with a view of the industions, elementary ideas of government, of trade and commerce, of supply, light, etc.)

lake, Swamp, brook, and the surface contour determining each; soil of frost, of melting snow; mountain and valley; slope and watershed; maritime districts, coast, beach, bay, harbor, cape).

tilling land, building bridges, breakwaters, mill-dams for water power; guided by light-houses, signals, weather-predictions, etc.

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

Sketch-plans of school-room and grounds; plan or map of district showing roads and buildings, brook, pond, forest, etc. The sandmap as counterpart of 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 continuation of the plan of the district already made. Ideas of direction derived from the sun's position; the four points of the compass and their application to the map hung on the north wall or laid on the floor with the top to the north. Surface forms not found in the neighborhood comprehended thru the medium of miniature forms in nature and on the sand-map. The surface and coastal features of Nova Scotia, its chief towns and the means of access to them, its rivers, mountains, means of communication and transportation. (County lines and names mean little to children and may be omitted. The province, on the contrary, as a geographical unit will easily be 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.

## Grade V.

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

The Dominion of Canada in slight-detail; its greatest river, mountain range, islands; its provinces, chief cities, chief routes of travel and trade, distances measured in days' journeys, products of soil, forest, sea, mine.

Nova Scotia in considerable detail, not only its natural features but these in relation to its industries, its population, the location of its chief towns and to a few leading events in its history. Drawing of local maps, maps of Nova Scotia and Canada.

Day and night a turning of the globe or earth towards the never-moving sun: warmth and coldness as determined by sun and winds; the overhead sun and its long day-journey in summer, the low noon-sun in winter and the short day, as affecting climate and vegetation. The polar and the equatorial regions contrasted, with their low and high suns, and their differences of climate and products.

The equator on map and globe; parallels north and south

#### Grade VI.

The continents oceans; European countries and their capitals, their great rivers, mountains, seas, gulfs, the chief countries of the British Empire. The peopling of Canada from various countries. Approximate latitudes of various countries, with inferences as to their climate and vegetable and animal products.

Canada, completed, with the aid of the text-book, the purpose having been to conceive of our country not as a place on a map divided into colored portions called provinces, but as a continuation of the school district in which the child lives. Its extent as conceived in terms of miles, of days' journeys, and of greater units of distance; its fairly uniform climate and products thruout 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 fertility, its loneliness and its monotony; the advantages of life in our Provinces with their varied scenery, milder seasons, invigorating sea-air, productive soil, abundance of fuel, fish and fruits, variety of occupation and of outdoor pastimes. The Saint Lawrence provinces and their place in the agricultural, lumbering and mining activites of Canada; their great size and population: their chief cities as manufacturing and distributing centres. The Atlantic Provinces similarly studied.

The great rivers and lakes of Canada as avenues of communication,—the canals fed by them; the great railroads built and building; the postal, telegraph and telephone 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 exfrom; items of food, clothing, house-furnishings, where they come come from.

The people of Canada, the races represented, the languages spoken; ities. The duties of a citizen; civic, social, moral and religious.

Map-drawing, not so much as a drawing lesson, as to clarify and Longitude, and means of communication. night presented in an elementary fashion thru medium of globe and diagram.

line, Map-interpretation: the map as showing elevation of land, coast of a courses of rivers, and consequently the slopes and drainage basins tion country; as showing elevation, latitude, maritime or inland position and therefore permitting inferences as to temperature, rainfall,

prevailing winds, approximate length of day in summer and winter, vegetable and animal products; as showing location of towns and cities and therefore the general distribution of population and the trade routes.

## 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 depths, but the plants and trees along its margin, its aquatic plants and animal life. Then there are to be noticed the wearing-down and building-up processes carried on by it; the movement of stones by ice; the effects of rain and melting snows; its source and 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 Mediterranean, the Rhine, the Danube, the Elbe; great ocean ports and ocean routes; the chief commodities for export and import and their destination, especially those sent to our country; imports, and especially those from Canada; names of countries and their position on the map; great cities; languages and races, especially those that have been prominent in civilization, colonization and commerce; latitude, longitude and elevation as determining climate and vegetable products; the chief colonies of Britain 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 manufacturing 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 resource-fulness.

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

## 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, [recorded at least monthly thruout the year. Latitude of place as determined by the sun's hight or the length of stick's shadow at noon. Our longitude as shown by the difference in time between a watch keeping London time and the school clock.

Ocean currents, trade winds, periodical winds, rain and rainless winds, rainless regions, effects of mountains, forests, plains, lakes, seas, on moisture precipitation and climate generally.

The United States, studied in the same manner as in the prescription for the British Isles, 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 studied 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 posessions of Britain.

Commercial geography: great trade routes, by rail, steamer, caravan: the world's great shipping ports, London, Antwerp, Liverpool, New York, Hong Kong, Hamburg, Montevideo, Marseilles, Singapore, Cardiff, Kobe, Genoa, Buenos Ayres, Rio Janeiro; their Position relative to great ocean routes.

Classification of commodities as vegetable products, comprizing products of the forest, such as timbers of various kinds, rubber, cork, bamk bamboo, turpentine; products of the farm, as wheat, rice, roots, fruits, super. sugar: products of wild and cultivated shrubs, as tea, coffee, indigo, spices; products of wild and cultivated snrups, as tea, conte, modernia, products of animals, as cotton, flax, hemp, jute, wood-pulp; profeathers of animals, as meats, wool, hair, hides, fats, horn, ivory, furs, feathers feathers, eggs, dairy produce; fish products, comprizing food fish, oils, for the same of oils, fertilizers; products of insects, comprizing 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: e. g., commercial treaties, customs duties, excise, paper money, coinage, posts, telegraphs, and means of transport.

Government, as despotic, democratic, or as partaking of each; the nature of representative government; its universality among highly civilized peoples.

HISTORY.

## General Prescriptions.

As a formal study history need not begin earlier than the fifth or sixth grade. Previously to that, the mind of the pupil shall have been prepared for the study of the text by the informal history readings: the study of the text by the informal history readings: ings; the stories and biographies of great men of succeeding ages; the implementation of succeeding ages; the important historical associations of places that come under review the geographical referin the geography, the reader, the newspaper; the geographical references to lands, historic peoples, nations; the facts of the settlement and development of the neighborhood in which the school is situated.

Pains must be taken to develop in the pupil the perception of time, remote and recent. Mere notation of years by arithmetical numbers is not adequate. The century, to be perceived, must be measured by life-times, or by comparison with recent lapses of time, just as the mile is to be measured in number of times across the playground. The meaning of anno domini, of the terms ancient and modern, and the grouping of all history around the pivotal Year of our Lord, will be a subsequent development of the chronological process which is gradually to entold all events, peoples, and personages. This development will come about not as the result of direct efforts at parroting and memorizing dates so much as by incidental reference to the chronological setting of persons and episodes and peoples mentioned in the stories read by pupils or to pupils. The blackboard is useful here for fixing the time-impression visually, just as it is useful at many points in history teaching if the teacher but possesses the pictorial art, or is skilful in graphic representation.

The mainspring of juvenile interest however, is not the curiosity to know when so much as to know what happened and how it affected the fortunes or feelings of those concerned. The fairy tale, the myth, and the stories from the reader, have cultivated in the child a fondness for dramatic conclusions wherein the bold, the brave, the generous, the timid, the cowardly, and the mean, meet their appropriate rewards. The hearing, the reading, the contemplation of actions that possess dramatic quality may be counted upon to react emotionally upon the pupil and thus to furnish him a motive for expressing himself. To repeat or retell what he has heard or read will be a delight to him.

Clearly, therefore, if all history could be transformed into romance, the acquisition and retention of historical fact would present no difficulties. Such consumeration difficulties. Such consummation can hardly be hoped for. Nevertheless, there is a pedagogic suggestion involved in the mere desire to make history romantic or at least dramatic. For, it is manifestly important in all historic portetions. important in all historic narratives to keep prominent the human and personal element. Events do not personal element. Events do not merely happen, they are brought to pass through human agency and to pass through human agency, and generally at the instigation domination of one person. His passes at the instigation form domination of one person. His personality and doings thus form the centralizing topic around which the centralizing topic around which may be organized a considerable body of historical fact. The mantal body of historical fact. The mental challenge from the teacher as to Why he did this? or What was the challenge from the teacher reto Why he did this? or What was thus brought to pass? or What results followed? provided still other many that results followed? sults followed? provided still other motives for rearranging the facts traversed and for examining them from different angles, the re-reading and review thus incited being made to and review thus incited being made to serve the purpose of fixing in the memory of the purpls cardinal facts and the purpose of fixing in the memory of the pupils cardinal facts and historic waymarks. amount of aimless wandering over dates and events, or of mindless review from cover to cover of the best review from cover to cover of the book will accomplish the end of memorizing; and even if it did it must be supported to the support of the book will accomplish the end of memorizing; and even if it did it must be supported to the support of the book will accomplish the end of memorizing. memorizing; and, even if it did, it would still leave the facts without perspective, relation or proportion perspective, relation, or proportion.

In the seventh and eighth grades, beyond which the majority of children are not destined to go, something in the way of interpretation of historic values should be attempted by the teacher. History, which has been to the pupil only a pleasing pastime, appealing chiefly to his fondness for tales of adventure, heroism, endurance, loyalty, should be thought of also as a record of man's long contest with his own ignorance, prejudices, and intolerance. From another point of view, it is a story of his gradual mastery of the secrets of nature and of the control of natural forces. From still another, it is an account of a long and varied struggle for personal liberty, for the rights of the individual, and for popular government. Here and there, too, thru the fabric of history runs the golden thread of spiritual and artistic achievement, in religious endeavor, literature, music, poetry, painting, etc.

Finally, there is the pertinent consideration of the present doings of people at home and abroad as a page of history wherein the future reader will look to find how well or how ill we have used our privileges and contributed to better government, to increased industry and contentment, to the comforts and refinements of the home, to education, to the general diffusion of intelligence and good will, to the dispelling of prejudices of race and creed.

These considerations are basal in the history of our own race and nation. They thrust themselves upon us in each epoch and dynasty, They are a unifying element of several branches of study (history, in memory only as phantoms of knowledge, of no validity or service. Too much must not be expected of the child in the way of interpreting to work them out at length: nothing could be more fatiguing or more disappointing in its results. Occasional and opportune suggestion in history will be found to have sufficiently served its purpose when her own study of the school history, working there as a leaven in an otherwise inert mass of fact.

Under the head of general method some illustration has been given the organizing of fact around topics, persons, etc. This process what is of application in the review lesson. In the daily lesson, pupils for the study of the new assignment. Some paragraphs of the new lesson are of little importance; some, vital. Left to himself, mit this, the teacher should tell him outright what are the important before. Better than that would be for the teacher to have the class them for exercise of their own judgment as to what are important what less so.

The use of the school library for parallel readings, reference, or even for pictures, should be encouraged, a premium being put upon pertinent information obtained by the pupil on his own initiative.

Closely interwoven with history are matters of legislation, gov. ernment, tariff, taxes; of the administration of public services; of civil privilege; of the constituent elements of our society; of organized social and moral reform; of benevolent societies, societies for self-improvement; of missionary and philanthropic endeavors some conception of all of which pupils of the higher grades are capable Absolute accuracy and fulness of detail are not essenof forming. tial. It may be omitted to learn the number of members, senators, or legislative councillors for Nova Scotia, so long as the principle of popular government thru elected or appointed representatives understood in its bearing upon these functionaries. The meaning of law as custom and of law as the deliberate creation of our parliament, is more important than are details of finance, maintenance of the courts of law, method of appointment of the justices, or the salary of the policeman. The tariff, its purposes, general workings, and effects upon industry, are important, but not the rates of duty on nutmegs and cinnamon.

Civic studies, steadily enlarging in scope, should, like geography and nature studies, begin with and grow out of a first hand observation of our surroundings. The tiniest school is a civic organization. In the remotest section of the province one is amenable to law, obligated to pay taxes, endowed with individual and legal rights and rights of citizenship, and bound by individual, social, and civic obligation.

In close association with the study of civic and social institutions of the neighborhood is the inquiry into its early settlement. The teacher would do well to leave behind for the benefit of her successor a written summary of information she has been able to glean from old residents, from county histories, or from any other source, bearing on the early history of the district. Succeeding teachers might add to the record, until a fairly complete local history should thus come into being. How the early settlers lived; the condition of the country as they found it; what means of intercourse, of transportation; their pursuits; how they obtained the necessaries of life, these are capital topics to stir the imagination of children as early as grades IV and V.

In most of the counties of Nova Scotia the history of the county is not a comprehensible unit, and the class may accordingly pass from the home district to places of historic importance and interest within the province, irrespective of county lines. The consideration of county is of interest solely in connection with civics. The county being a political and generally an electoral division, it compels attention as such, municipal government being an important part of our civil organization.

From Nova Scotia one may safely pass to our sister provinces and to Newfoundland, taking note also that the colonies of New

England were once sister provinces to Nova Scotia under the sovereignty of Britain. At this stage, such topics and characters of common history as are chosen ought to be taken up in chronological order practically, the order of the text. In grade VI it is worth while to make an effort to link the history of our race with that of Rome, of Greece and then thru to the history of Europe and of Biblical times.

Handbooks for Teachers: in Canadian history, "Canadian History Readings," published by St. John Educational Review, & Co., "Romance of Canadian History," published by Morang

In English history, for reading to pupils: "Highroads of History, Book 1, 25 cents; Book II, 30 cents (published by T. Nelson &

(Morang & Co.). England

# HISTORY. Special Prescriptions.

## Grade IV. (Oral Teaching only).

Story of Columbus, of Cabot, told before the map. Pictures, Imaginary picture of your own neighborhood before men came; of how the Indians lived; of how the white men built their first houses, winter evenings, obtained food and clothing. How the first French settlers came to Nova Scotia; where they chiefly settled. How long in years, in lifetimes, in centuries? How long after Our Savious's time? How many centuries? Our King and Queen.

## Grade V. (Oral Teaching only).

Story of DeMonts; of Champlain; of the early missionaries, Marquette and Joliet, told before the map. Story of the Pilgrim Fathers; of John Smith and Pocahontas; of Madame LaTour. Pictures and blackboard sketches. Map of Acadia showing French Settlements chiefly around Annapolis, Grand Pre, Louisburg. Amherst, Windsor, and Truro. Capture of Port Royal in 1710; founding of an English province. The unhappy fate of the French expelled from Britain, 1775-1783; the coming of the Loyalists to western Nova Scotia. Empire Day and Dominion Day.

## Grade VI. (Oral Teaching only).

of Frontenac; of Dollard; of Bishop Laval; of Wolfe and Montcalm.

Acadia, as in grade V, reviewed, before the map. The coming of the English to Halifax, in 1749; of the Germans to Lunenburg; of the Scottish people to Pictou; of the loyalists to Shelburne, Yarmouth, Digby, Kings and Hants counties; of the Scotsmen from Western Scotland to Cape Breton. Our Dominion Day, Empire Day, and Victoria Day.

England's story; of the Roman conqueror, Julius Caesar; of the Britons, and their ways of living and fighting; of the Roman withdrawal from Britain; of the Saxons; of the coming of Christianity to Saxon Britain; of the Norsemen; of Ethelred and Alfred; of William the Norman and the way he fought at Hastings; of the Norman Barons and their castles and great estates; of the wicked King John and Magna Charta; of the conquests of Wales and of Ireland; of Edward II and Bruce at Bannockburn ("Scots wha hae—"); of Edward III and the burghers of Calais; of Crecy and the Black Prince; of Elizabeth and the Spanish Armada; of the first Parliament and the desire of the people to make their own laws; of the obstinaty of James I and Charles I; of the execution of Charles I and the government of England by one of her plain people, Oliver Cromwell.

Bible-lands: Their position on the map, and the order of their antiquity; Egypt, Babylon, Greece, Rome; of Rome's conquest of Britain about the time Our Saviour lived in Palestine; of the coming of Christianity to Celtic Britain not long after.

Rudimentary notions of government: Everyone must obey authority and must respect the property and rights of his fellows.

Taxes: People must give part of their money to keep up schools, and roads, to care for the poor, and to educate the deaf, and the blind.

# Grade VII. (Textbook in pupil's hands.)

England, from Cromwell to George III. The pupil should learn the names of the sovereigns from Henry VII to George V, and should be made intelligently familiar with the following terms, per sons, and events: The Petition of Right, John Hampden and ship money, the Civil War and its causes, Cavaliers and Roundheads. The Commonwealth, The Lord Protector, John Milton, John Bunyan, Sir Christopher Wren, The Restoration, The Act of Uniformity, The Habeas Corpus Act, The Test Act, The Declaration of Indulgence, The Toleration Act, Marlborough and Blenheim, Battle of the Boyne, Utrecht, Bill of Rights, Battle of Plassey, Plains of Abraham, The Seven Years War, The American Declaration of Independence, George Washington, Yorktown. Each of these names and events the pupil should be able to assign to its proper reign, and the dates of the events italicized should be learned as way-marks of history. Of each event the pupil should be able to give a brief explanation in his own words, orally, and in writing.

Canada, from 1713 to 1867. Instruction and home-study should center around the persons and episodes selected for oral instruction in Grades V and VI. The war of 1812-15 will form an added topic for study (not too detailed) before the map; likewise, the struggle of our people, led by Howe, for complete self-government (no historical details permitted).

Free schools and the statesmen to whom we owe them.

it about. Confederation of the Provinces, and the statesmen who brought

The nature of government by representation illustrated in the school-trustees, the church-managers, etc. Representative govern-federal parliament,—how provided for? Occasional stories read or Greek history.

#### Grade VIII.

the pupils, for consultation). The map must be constantly before

Canada, from 1867; especially, the nature and extent of the affected each province in revenue, in the control of mails, militia, province retained (e. g., crown lands, minerals, highways and bridges, education).

The Hudson Bay purchase, the subsequent erection of new provinces, and the enlargement of Quebec, British Columbia and Ontario; British Columbia. The admission of Prince Edward Island and of Communication thruout the Canadian Provinces; especially, the Atlantic and trans-Pacific lines of steamers. The protective tariff give illustrations. The preferential tariff with Britain. Canada's part Cadet Corps, boy scouts. The Reciprocity proposals of 1911 and their defeat.

The two great political parties. Nova Scotia's representation in authority from Parliament of Canada. Our Courts of law derive their trade, in immigration, in aggregate wealth.

Nova Scotia's growth not rapid. The revival of agriculture in ing of her people to work the soil, the mines, the forests, and the fish-

ery intelligently, to cultivate industrious and economical habits and a spirit of co-operation in industrial enterprizes.

The recent development of school education to comprize training of the body (hygiene, physical training); of the hand (manual training, sewing, drawing, etc.,); of the habits, morals, manners (temperance, patriotism, honesty, self-respect, civic duty, courtesy).

Societies to promote virtuous objects; kindness to children, to animals; temperance; the interests of the working classes; the spread of Christianity. Provincial institutions for the blind, the deaf, the sick, supported from the provincial revenues; local hospitals, etc.

England, from George III to the present time: Napoleon's overthrow accomplished chiefly by England's ships and armies. Trafalgar (1805) and Waterloo (1815); Nelson and Wellington. The Reform Bill of 1820, the Repeal of the Corn Laws, the Crimean War, The Indian Mutiny, The South African War.

The triumphs of peace: The emancipation of slaves in British colonies; The Catholic Emancipation Act; The Elementary Education Act of 1870 (compare this with the date of Nova Scotia's free school Act).

Great inventions: The steam-engine, the steamship, the spin-ning-machine, the electric telegraph, the ocean cable, the telephone, the needle-gun, the air-ship, the wireless telegraph. Commercial treaties, arbitration treaties,—explain. The penny-post, imperial postage.

Foreign events: The advance of Japan in science, popular intelligence, commerce; the awakening of China; the spread of republican government to France, Brazil and thruout South and Central America; the American Civil War, 1861-5; the emancipation of the slaves in the Southern States (Abraham Lincoln).

Great writers of the period: Burns, Scott, Coleridge, Wordsworth, Macaulay, Dickens, Tennyson, Browning, Darwin, Longfellow.

# DRAWING AND CONSTRUCTIVE EXERCISES.

# General Prescriptions.

The aims of the school course in drawing are,

- (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 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.

The fashioning of artists is no more the function of the school than is the making of poets. But failure in efficiency in the school that does nothing to enlarge the child's sense of beauty of form, color, and composition, is of the same kind as would result if 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 have his work to do in the real world. It is, indeed, possible that the vocation he chooses may not call upon him for skill in drawing; but the chances are that either his vocation or his avocations will do so; and, whether or not, it is almost absolutely certain that at important junctures the ability to express himself thru line, form or color will prove of considerable value to him.

The school has, it must be acknowledged, a highly important duty in respect of teaching drawing; for neither the pictorial, the decorative, nor the constructive power is likely to develop in the child without the stimulus and the instruction of the school. True, there may be the stimulus and assistance of a home in which forms of graphic and decorative or constructive art are practised; but, as a rule, the home, in the efforts at interior and exterior decoration, furnishing, dress and capacity for enjoyment stands to profit both economically and esthetically by the modest but well-directed efforts of the common school to develop simple, correct tastes.

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

- (1) Pictorial drawing, or rather, picture-writing,
- (2) Decorative drawing and designing,
- (3) Constructive work,

the last mentioned growing more and more conspicuous in utility come all such exercises as are intended as a means of free expression for the child's imaginative and reproductive powers, comprizing object; imaginative and memory drawing; drawing from the history, and nature, prompt the pupil to depict scene, incident, weath the earth; and the interest of the moment may profitably be turned or from the object, that which has just passed under view. This tivities of the child; his games, sports, and recreations,—playing forest, mine and sea, all of which furnish subjects susceptible of pictant class, to the thoughtful drawings of the upper grades.

Under decorative drawing 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-paper, for print-cottons; combination of colors and tones for decorative purposes in mats, carpets, fabrics, dress.

Under constructive work come the paper cutting and folding, card-cutting, sewing, clay-modeling of the earlier grades, developing into the more purely mathematical drawing and the construction-work (cardboard, wood, and needlework) of the upper four grades. It comprizes 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 interest and the ability of the pupil. To express form in terms of material substance such 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 his understanding that education comprizes not merely a knowledge about materials but a power to manipulate them.

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 crossively crude. ised in determination of form and proportion, but the hand of the child is at first a mere fist capable only of the child is at first a mere fist, capable only of rudimentary finger movements and whole-arm movements. and whole-arm movements. Accuracy, neatness, correct proportion, are out of the question, and the transfer proportion. are out of the question; and the teacher must be content with maintaining the native interest of the allier must be content with maintaining taining the native interest of the child in depicting things, utilizing this interest to encourage him to should be depicted things, utilizing this interest to encourage him to observe with more and more accuracy. Little children cannot study but Little children cannot study but they love to be given things; and drawing and constructive to do; and drawing and constructive exercises should be a frequent employment in school. During this employment in school. During this stage the pointed pencil is a discouraging medium, the brush of discouraging medium, the brush or the blunt crayons—preferably colored ones—offering a much more discouraging of colored ones—offering a much more direct and effective medium in expression. Later, after the child be expression. Later, after the child has acquired some readiness mass-drawing, the pencil becomes useful mass-drawing, the pencil becomes useful as a means of acquiring exactness and accuracy. The flat color wall ness and accuracy. The flat color-washes and the colored crayens, moreover, permit experiment and instance and the colored and and instance and inst moreover, permit experiment and instruction in colors, tones, their relations.

By "mass-drawing" is meant the blocking-in of the color, in a uniform mass—not outlining it first and shading the parts. Exactness of outline is kept secondary to general trueness of shape and proportion. This exercise when done with colored crayola is very fascinating to children, and practise in it develops the meaning of better than does the reverse process. At first the child's vision bout correct enough to discern clearly the outline of any but flat obnot correct. His attention is drawn rather to color and to prominent features, which, of course, he is disposed to over-elaborate, His exage

gerations and false impressions must not be criticized severely, but gradually corrected.

The same effect in mass may be obtained by using diluted ink, and in the grades above the third this may be made in two or three degrees of strength, thus placing two or three tones of color at the disposal of the pupil. All the materials needed are a brush and two little saucers in which to dilute the ink. The colors are carefully washed on without shading, the darker tint being used for foregrounds and to indicate a different color from that which the lighter tint stands for. Thus, in drawing a daisy, the petals and leaves may be done in the lighter wash, the center in the darker tint.

"Chase's Practical Color Work," 25 cents. (Milton, Bradley Co... Boston, Mass.)

In paper-cutting, etc., for grades I-IV, "Seat Work and Industrial Occupations," by Gilman (Macmillan Co.).

tion," by J. H. Trybom (Milton, Bradley Co., Springfield, Mass.).

In wood-work for grades VII-VIII, Foster's "Elementary Wood-work," price 60 cents., (Ginn & Co., Boston.).

The new Progressive Series of Drawing Books (Prang & Co., New York), in eight numbers, constitutes an excellent handbook for both York), in eight numbers, constitutes and the color-work and both teacher and pupil. It contains, besides, all the color-work and manual training in paper and cardboard needed in the eight grades. Nos. 1, 2, 3 cost 15c. each; nos. 4, 5, 6, 7, 8, 20c. each. This series gives the 1, 3 cost 15c. each; nos. 4, 5, 6, 7, 8, 20c. each. gives the last and best word on common school art instruction.

Needlework," price 60 cents (D. C. Heath, Boston.).

#### DRAWING.

# Special Prescriptions.

## Grades I, II.

by "Picture writing; that is, the expression of ideas, stories, etc., objects or drawing. Thus, the child may represent any interesting playing or groups of objects, especially animals in motion, children the water-pail a cap, a boot, playing, pets, toys, horse and wagon, the water-pail, a cap, a boot, in the nature lesson will be appropriate. The drawing will be very purpose however. It is the expression of the child's first efforts to of and to record differences of color, size, shape, and relative position see and to record differences of color, size, shape, and relative position of objects record differences of color, size, shape, and relative position to object of band-training. It enables the of objects record differences of color, size, shape, and relative positive objects. It affords a measure of hand-training. It enables the teacher to size, shape, teacher to introduce a few technical terms relating to size, shape, position, etc.

The teacher must take the initiative by drawing on the black-board with the flat of the chalk. Color will be made interesting and instructive by using colored chalk and by having the child use crayola of color appropriate to the object, to the sky, the foliage, the water. Drawings should be large and vigorous. If small objects are to be drawn, one should be placed on each desk against a background of paper. Drawings of groups should bring out relative size, relative space and relative color.

Pupils of the second grade may cover spaces by repeating a group of spots or of lines, a circle or triangle, a simple flower form. They may be expected to produce rude outline effects of symmetrical objects such as an egg, an apple, a spruce tree, a twig with leaves, the window or door, the ink bottle, the stove.

Pictures appropriate to childhood, especially those portraying sacred subjects, children, mother and child, pets, shepherd and sheep, birds, should be shown to children or hung in the room. In addition to their spiritualizing influence they are incentives to pictorial work by the pupils.

Construction work should be occasionally given—such exercises as stick-laying, free cutting or tearing of paper into forms of animals, fruits, etc., winding with raffia, weaving. The cutting should embrace the circle, the square, the oblong, as well as simple natural objects and these forms should be added to in subsequent hight, wertical, horizontal, left, right, sphere, hemisphere. The type forms square, oblong, cylinder, etc., should be recognized in the familiar objects of the room, such as the door, the pane of glass, the stovepipe, the pail, etc.

# Grades III and IV.

Picture-writing, as in grades I, II, to express ideas and to accompany stories.

Drawing of natural and other objects, such as trees, vegetables, buildings, table, basket, bowl, pail, Japanese lantern, squash, pumpkin, pumpkin-lantern, grasses, fruits, weeds, etc., with care in outline. (The smaller objects here mentioned should be placed on a level with the child's eye.) To this end the pencil must be brought into use. Plant specimens in the budding or sprouting stage obspous, seeds, butterflies, beetles, squirrels, etc. Pupils in these will find pleasure in drawing fruit or berries on the branch or the and especially the autumn coloring of our wild shrubs such as they rose-bush, the blueberry. The drawing of the spring flowers as they appear and of the phenomena and typical farming operations of the succeeding seasons will enhance the interest in the effort. In marest time communities, in mining communities, there are additional features boats, sailing craft, steamers, tall chimneys, horizons and sky-lines.

In the drawing of the larger objects in nature, the effects of nearness and distances of separate objects in the same picture should be expressed with increasing skill; likewise the distance between two objects when near and the same objects when more remote. These observations serve as a foundation for perspective and for the drawing of single objects in the three dimensions, length, breadth, thickness.

Constructive Handicraft. Making a wall pocket, a blank book, a cornucopia, etc. The cutting with scissors of geometrical paper and of easy natural forms. These may be cut from colored Needlework.

Ornamenting a circle, square, or rectangular surface by breaking it up symmetrically and coloring the parts in proper balance and with regard to pleasing color-combination.

Rhythmical repitition of dots, or spots, or linked circles, or simple flower or leaf forms, so as to produce a wall-paper effect, an alternating square and circle, square and dots, etc.

Mathematical Drawing. Drawing squares and rectangles of given dimensions. Dividing these into square inches. Measururing with footrule, involving half, quarter and eighth of an inch. Measdrawing the schoolroom and drawing it on the scale one inch to the foot; obtuse angles drawn and named; so, diameter and diagonal.

#### Grades V and VI.

Object drawing of natural and of made objects, in good outline expressing the third dimension (that is, the foreshortening or tangle, the such plane surfaces as the square, the circle, the recarow of telegraph posts, and later, of such solid objects as a box, a objects above the eye; the square surface, the rectangular, the ceiling; facing the observer, such as the wall, the fence, a house, the window, on a snowy day.

Interest will be increased by combining objects so as to suggest thus, a bowl with apples; a tree on a hillside, a lake with a mountain maple, the pear, etc., should be studied.

The nature study lesson in plants, insects, birds, etc., should ing of the object or of some important part or parts. Such drawing exercises are as much a transcribing and recording of facts as a written

description would be. They compel a close attention to details and relations and are therefore to be regarded as supplementing the class work in observation. They afford, too, an excellent preparation for later systematic study of the natural sciences.

Constructive Handicraft: Making, at direction from the teacher, the working-drawing of a paper box; then making from this the box; a cubical box, a rectangular box, a pyramid, a triangular prism; making and decorating Christmas and Easter cards (simple, folded, and with mounts), calendars, valentines, book-covers, match scratchers, cardboard picture-frames, a wall bracket. Constructing a color scale. Designing a book cover with simple border and with title and author's name nicely lettered and correctly spaced. Reproducing with and without modification historic borders. Designing a linoleum pattern, a modern border with units of flower, seed pod, insect, or conventional figure.

Mathematical Drawing: Drawing to scale, continued, the problems involving quarter or half inch to foot, to yard, etc. of compass and protractor. Plan, to scale, of schoolroom, with teacher's platform, position of door, of window, etc., shown.

Meaning of plan, elevation; two or three plans and elevations worked out for the paper and cardboard construction. Careful drawing with ruler and compasses, of hexagon, octagon, equilateral and right-angled triangles.

## Grades VII and VIII.

Object drawing, with pencil, crayola, and water-colors of objects slightly more difficult, with attention to correct perspective; to light and shade effects on near objects, such as a cup, a bowl, a bottle, a box; to the effect of distance on colors as well as on size. Principles of perspective reviewed and completed. Easy landscape sketching, to show sky-line, trees, buildings, (omitting detail and using a coarse pencil or crayola or water-color brush to produce rough effects, geometrically exact lines, outlines, etc., do not occur in nature). Grouping of objects to produce pleasing effects; massing of foliage near buildings, for beauty; plan of tree, shrub and vine planting to improve the school premises; ideal picture of the school and grounds with trees and shrubs.

Nature-study drawing; calling for increasing exactness in the recording of structures, details, etc. Color harmony and the color scale, continued.

Constructive Handicraft; in cardboard, or wood, or both, producing things that the pupils prefer to make. (Some children will do this work at home for criticism and suggestion by the teacher). Conventional units of design from flower and leaf-forms, head and tail pieces, ornamented initials; some of these applied to decoration of essay-covers, calendars, Easter-cards, etc. Working-drawing of a postage stamp-box of wood, of a wooden paper-knife with ornament-

ed handle, of a book-case for the school-room. (These drawings must be executed with mathematical precision and exactness.)

Design a pitcher, a vase, a coal-hod, form and ornamentation being determined in view of the nature and use of the article.

Mathematical Drawing: A carefully executed map; plotting scale, as in Morton's "Mathematical Drawing;" chaps. I, II, or grade VII; chaps. III. IV for grade VIII.

## NATURE STUDY.

The purpose of nature study has been defined as "Learning those things in nature that are best worth knowing, to the end of doing those things that make life most worth living." The great benefit sought is not primarily to have the child acquire a mass of fact, but rather to lead him to understand, to love, and to utilize wisely the environment in which a benevolent Creator has placed him.

Nature Study appeals to the child's activity thru the excursions for collecting specimens or for investigation; helps to form habits of accurate observation, logical thought, and clear expression; cultivates the imagination and sense of beauty, and eliminates monotony from school life.

## General Method.

- aquarium, an insect cage, window boxes for plants, a sand-table for for collecting insects, a magnifying glass, a thermometer and barometer.
- interesting events, such as excursions, first wild flowers found, return of birds, etc.
- $c_{ocoons}, \ Make$  collections of grain, seeds, minerals, shells, nests, galls, pressed leaves, flowers, weeds, insects, etc.
- and of Get pictures of native trees, birds, animals, insects, etc., processes of manufacture.
- b. Make these collections of things or pictures the basis for humber, reading and spelling, games and songs.
- the moth, the fly, etc.
- 7. Bring out the relationship between nature and man, the fluence of injury derived from plants, animals, or insects, the interest of the country as providing food, clothing, heat, and shelter, etc.

8. Tell nature myths, stories of animal life, of different countries, of industrial life, etc.

The teacher is urged not to neglect Nature Teaching simply because she does not know the subject thoroly. Good books are numerous. School libraries are almost a necessity. The big outdoor world—the best illustrated text-book—is within reach of all.

Every hill has its history. Every brook tells a dozen stories. Every plain is a museum of wonders.

To translate these records is to become acquainted with a universe which has existed for untold ages and will exist for ages to come: to translate a book, written two thousand years ago, is merely an attempt to bring to life the thoughts of a small community of people which have no direct bearing on our struggle for existence today.

If the teacher makes an honest effort to get acquainted with natural phenomena and natural objects she will find her efforts rewarded. From the field, the factory, the mill, the blacksmith shop from every nook of the landscape and every worker in the community the teacher can learn something that will be useful to herself and in her teaching. Moreover, she is permitted to ask questions of more experienced teachers and educational magazines.

In the choice of materials for nature study as well as in deciding on the proper method to follow, the teacher will be aided by bearing in mind the chief aims of the chi in mind the chief aims of such a study. These are (1) to increase the interest which the such a study. the interest which the young child already has in the world around him that he may appreciate and already has in the world around him that he may appreciate and enjoy many things in nature of which he would otherwise be which he would otherwise be unaware; (2) to cultivate the habit of investigation or the power of the investigation or the power of discovering knowledge from first-hand study of things; and (2) study of things; and (3) incidentally to give useful information.

Whatever materials or mathed a math Whatever materials or methods are useful in accomplishing these aims are good materials or methods for materials or methods for methods are useful international methods are useful in accomplishing these aims are useful international methods are useful international methods are useful international methods are useful international methods are useful in accomplishing these aims are useful international methods are useful in accomplishing these aims are useful methods are useful in accomplishing these useful methods are useful international methods are useful methods. are good materials or methods for nature study. The teacher should try to discover the interests of the all its try to discover the interests of the children and the things which with may readily be led to take an interest in, and she should begin its these. Merely to possess and hold - a Merely to possess and hold a flower, to enjoy its color and its ce, and to tell the teacher and the fragrance, and to tell the teacher and the class about it, may be good nature study for grade I public B nature study for grade I pupils. Becoming acquainted with by common plants, birds, insects, minerals, stars, etc., to know them by name, may add to the interest in these them. name, may add to the interest in these things and be the starting point for further study.

The aim in the first five or six years is to put the child into sympathetic touch with his surroundings and to give him certain units of knowledge with which he may interpret the geography and agriculture which, later, are to be based upon this nature study.

School gardens, however small, should be maintained, and the pupils encouraged to plant trees, flowers, and vegetables in their own gardens or yards.

In the special prescriptions that follow, the teacher must not think it her duty to take up each and every item specified. The intention has been, rather, to suggest a wide range of topics and a variety of detail, in order thereby to provide something in each field of inquiry to allure the teacher. Let her but choose what appeals to her fancy, her passing interests, the interests of her pupils, or what lies within the compass of her ability to deal with.

## Special Prescriptions:

#### Grades I and II.

The work in these grades must be informal. It is enough to arouse the child's interest in, and love of the life about him; to lead him to accurate observation; to encourage him to care for some living thing (animal or plant); to stimulate his sense of wonder, his imagination, and his sense of beauty.

Hand work should accompany the lessons, such as drawing, color work, modeling, cutting out, planting of seeds, making of boxes, making of blue-prints, &c. Free conversation directed by the teacher and based on the experiences of the children is the best means of infast, such as cereal, bread and butter, eggs, coffee, &c., the following (show examples); the millers to grind it (show meal and flour); the domestic animals; dependence on other countries for such things as coffee, sugar, &c.

Such a summing up as this might be read and memorized.

## The Song of the Wheat.

"Back of the Bread is the snowy flour,
"Back of the flour is the mill;
"Back of the mill the growing wheat
"Nods on the breezy hill.
"Over the wheat is the glowing sun
"Ripening the heart of the grain;
"Above the sun is the gracious God
"Sending the sunlight and rain."

#### Autumn.

The most prominent element in Autumn study is Nature's preparation for winter; e. g., the storing of food by man, by animals, by plants; migrating of birds; protection of animal and plant distribution of seeds, &c.

Natural Phenomena: Decreasing heat in sun's rays; shorter shadows; moon phases; stars; rain, clouds, fog, dew and wind.

Notice color in the sunsets. Direction, east and west; time,—hour day, noon, sunrise.

Animal Life: Domestic animals, pet animals, and common wild ones,—simple observations and stories of these.

Encourage children to tell about their pets—what they eat, what they do, how they behave. Make language lessons of this material, putting their statements on the black-board with appropriate drawings.

Birds: Domestic fowl, common wild birds,—simple studies in their food and habits.

Insects, &c.: Find common ones, and collect galls, cocoons, eggs, caterpillars, &c., for the vivarium later on. Note their food, &c.

Place caterpillars in a pasteboard candy box with a leaf of food plant and cover with a piece of glass. Watch development of caterpillar. Keep leaves moistened, or keep a shallow dish of water on the box.

Plant Life:-Grains: collect and name them and find uses.

Fruits: Color, taste, parts.

Vegetables: Color, taste, parts.

Trees: Study leaves, bark, general form, coloration of leaves; learn names of trees in the Neighborhood.

Seeds: Collect and note manner of distribution.

Flowers: Name common garden and wild ones; learn color; perfumes and seed.

## Winter.

The principal subjects for winter study are frost, ice, snow; the evergreen trees; the birds and animals that remain during the cold season; protection from cold; care of domestic animals; the resources and industries of the country in relation to food, clothing, homes, light and heat; for example, coal for heat and light; wood for heat, building and furniture; wool for clothing; grain, stored and imported, fruit and vegetables, for food.

Natural Phenomena: Short days, brilliant stars and bright moonlight; frost, noting frost pictures, ices; snow, noting crystals. (show the crystals, using magnifying glass.)

Animal Life: Domestic animals and fowls, their food and man's care of them; wild birds and animals, means of protection from cold from increased covering of feathers and furs; fur-bearing animals; migration of birds; hibernation of animals; winter food for wild creatures, such as seeds.

Plant Life: Means of preserving life; bulbs, seeds, bud covers. (Visit greenhouses.)

Grains: Collect and name them and find uses. (Reserve for grades 7 and 8).

Trees: Note difference in general form, in bark and arrangement Evergreens.

fruits; learn from whence they come. Note difference from native productions.

## Spring and Summer.

The subjects of study in spring and summer center around the awakening of life and around growth and fruiting.

Natural Phenomena: Increase in heat; longer days; wind; rain; fog; dew; melting snow; brooks; rivers; the action of water on soil and rocks; different kinds of soil.

Animal Life: Awakening of hibernating life; the young of domestic animals; water-life, fish, frogs, toads, snails, &c. (collect watch transformations. Birds, their songs, nests, food, and care of young. Make bird houses and drinking troughs.

Plant Life: Trees, flowers, seed, buds, leaves, (Keep some branches in water and watch growth of buds). Bulbs and seeds. And light and watch germination and action of heat and moisture weeds; learn the names of some, and note color and other characteristics, their insect visitors, &c. Plant a garden or window boxes with flowers or vegetables and let children care for them.

## Grades III and IV.

From simple observation in Grades I and II we pass to closer to be noted, and the reasoning powers awakened to finding causes. affords a field for observation. Observation, here, should be accurate not detailed.

the results of these.

upon nature. Increasing emphasis should be placed on the dependence of man

Active work should accompany the lessons: excursions, collectof inquiry, coloring, writing, &c. Teachers should indicate subjects
which the pupils can find out for themselves.

#### Autumn.

Natural Phenomena: Cause of decrease in sun's heat and of the shorter day (no detail of cause attempted; merely the lower and shorter path of the sun noted from week to week).

Evaporation and condensation as shown in clouds, rain, fog, dew and frost.

Reason of changes in moon; two or three constellations or stargroups recognized and named.

Animal Life: Domestic animals in relation to man's need, for food, clothing, transportation.

Care of animals, their food, shelter, &c.

Wild animals, their preparation for winter.

A spirit of kindness to animals should be inculcated in these lessons.

Birds: Migration of some; provision for wild ones that remain during winter, domestic fowls.

Note injurious and beneficial creatures: caterpillars, ants, bees, toads, grasshoppers, &c., and their preparation for cold weather. Collect galls and cocoons.

Plant Life: Collect seeds and note construction and means of dispersion by wind, animals, water, &c., the dandelion seed for wind, the burdock for animal and the dock for water dispersion.

**Grain**: Know different kinds and process of preparation for food.

Fruits, nuts and vegetables: Construction, color, taste, parts used as food, storing for winter use.

Trees: Reason of coloration of leaves, uses of leaves and blossoms; arrangement and protection of buds; the trees in neighborhood recognized in autumn dress.

Flowers: Names, colors, perfume, seeds. Begin to call attention to the most conspicuous parts of the largest and simplest flowers; pupils to see that seeds grow in pistil and pollen in stamen. Carry this on thru the grades: this is useful knowledge, especially to those who work with plants as farmers or gardeners.

## Winter.

Natural Phenomena: Frost, snow, ice. (simple experiments in crystalization.) The action of frost on soil and rocks and on vege-

tation. Collect minerals. Note decrease in heat and light of sun, and study artificial heat and light from wood, coal, gas, electricity, &c. Note clouds, and their colors at sunset or sunrise. Moon and stars, their appearance and their motions.

Animal Life: Care required for dependent animals in contrast shelter, food, &c.

Care required for dependent animals in contrast Birds: winter birds, their

Plant Life: Trees,—note general differences in form and bark, and arrangement of buds.

Evergreens: Cones and leaves.

Study woods, and find uses as material for building, furniture, heating, paper making, &c. Visit carpenter shop, &c.

Flowers: Care of those in school or home or in greenhouse.

Fruits and vegetables: Visit grocery and notice those of home foreign growth; methods of storing; transportation; find out our own. Note other foods, such as honey, sugar, coffee, salt, spices, Correlate their sources with geography.

### Spring and Summer.

Natural Phenomena: Increase in light and heat; shadows; evaporation, steam, clouds, rain, wind. Learn different kinds of soil; woods, and their uses. Visit farm, blacksmith's shop, and explore woods.

in songs; their care of young; economic value.

Domestic animals and pets, and their young.

Domestic fowl and young, common wild fowl; their homes and

Study water creatures, collect eggs, and watch the transformin aquarium.

life history. Study them in relation to plant life; note color; learn

Plant Life: Grasses, ferns, mosses, mushrooms, grain; watch development, noting differences.

of trees and study growth of leaf-buds and flowers. Note coloration as sap ascends. (Experiment with maple sap, making sugar.)

Note the opening of bud scales, that these are finally thrown off, leaving scars. Note green undeveloped leaves and undeveloped stem. What is a bud? Let the bud answer for itself. What is a bulb? Study the structure of an onion or a tulip along with a bud. Study twigs of trees, find arrangement of buds, leaf scars and lenticels in the bark.

Germination of seeds: After young seedlings have appeared in seed-box or garden have pupils note how these differ from the true or characteristic leaves. Where did the first leaves come from? Give the name seed-leaves. Then study germination of bean and corn.

Prepare garden; plant seeds and cuttings; note habits and structure of different plants.

Gather and name spring flowers. Learn the principal parts, the colors, the perfumes.

Encourage children to have gardens or flowers at home.

### Grades V and VI.

The work in these grades is more detailed than in the previous grades. The children observe more closely, reason more accurately, and express more definitely. They are better able to experiment and to record the results of their experiments.

They may now be taught a few simple scientific terms. Closer connections may now advantageously be made between different subjects of study, such as insects and bird-life; bird-life and the farm; surface features of the earth and the different soils; drainage and vegetation, etc.

Books of stories on natural history should be freely circulated as supplementary reading. Each child should make his own calendar and weather-record.

Autumn.

Natural Phenomena: Learn causes of decrease in heat and light; notice shadows and learn to tell time on a dial. Learn eight points of the compass.

Clouds: Learn different kinds; thunder and lightning; uses of electricity.

Watch weather-vane and find out the prevailing winds. Try some simple experiments in evaporation and condensation. Notice the general preparation in nature for winter's rest.

Animal Life: How wild animals prepare for winter, (storing of food, thicker fur, &c.). Compare with domestic animals, noting dependence on man for food and shelter. Make special study of the usefulness of animals to man. In studying the horse, for example,

visit farm, blacksmith, fire hall, freight sheds, &c. where horses are employed, noticing the treatment they receive.

Reason for migration of birds; consider climatic and vegetational conditions in countries to which they go; learn names of birds. Show pictures of, collect, and learn names of common insects. Gather galls and cocoons. Make special study of one insect, the bee, for example. Show honey and comb and watch the bee's progress from flower to flower, obtaining nectar, distributing pollen, &c.

Plant Life: Learn common wild and garden flowers; find out their insect visitors; study processes of fertilization, and seed formation, seed-dispersal. Learn names of parts of plants and flowers.

Trees: Know the names of all trees in neighborhood.

function of leaves, difference in shape and edges, their buds; Nuts: structure and food-value.

Vegetables and fruit: Visit market and learn different kinds, construction, color, seeds.

and flour, and have pictures of process of manufacture.

Introduce the starch test. Let pupils use iodine on a number of substances—laundry starch, potato, fruit, vegetables, flour, meal, chalk, limestone, etc. and infer the presence or absence of starch.

#### Winter.

light, from candle to electric light.

Frost, snow, ice; cystallization, storing of ice; effect of cold on vegetation, on rocks, and on soil.

Heat; from coal, wood, gas, electricity.

Animal Life: Winter birds, their color, food and shelter.

Scatter food and watch the different ones that come. Prepare Winter life of water and land creatures, furbearing animals, fishes.

Materials obtained from animals, such as wool, leather, &c.

Weaver process of manufacture. Visit shoemaker, carder, spinner,

Weave small woolen rug on slate frame.

Plant Life: Trees, their beauty and uses. Wood, noting differences in color and grain. Visit lumber yard, carpenter, furniture store; show pictures of lumbering.

Fruits and vegetables: Visit market, note imported fruits, and compare with native. Tell of countries from which they come, means of preservation and transportation.

Flowers: Visit greenhouse, noting heat, moisture, light. Show pictures of vegetation in other countries and find out about imported foods, such as coffee, salt, spices, bananas, cocoa-nuts.

## Spring and Summer.

**Natural Phenomena**: Cause of increased heat and light; benefit of snow to earth and air; note deposit of dust on melting snow.

Rain: Effect on ground and on vegetation.

**Brooks and rivers:** Their relation to trees, to production of soil, and to water power in manufacturing and transportation.

Animal Life: Put up bird-house and troughs; note the return of the birds, their nests, songs, food; their usefulness as weed and insect destroyers.

The awakening of animal life in water, garden, and forest-

Collect frog's eggs, snails, &c. for aquarium, and study development.

Watch young animals at play; note their play as a training for future needs in procuring food, protecting themselves, etc. coloration as a means of protection. Learn names and habits of common insects; note those that are injurious, and experiment with means for destroying them.

Watch beneficial creatures such as earthworms, bees, toads, &c. show necessity of protection.

Plant Life: Wild flowers, names, parts, different means of propagation. Observe mosses, ferns, mushrooms and fungil pare garden and sow seeds of flowers and vegetables, noting for effects of moisture, shade; parts of flowers and uses. Watch fresh vegetables and fruits such as lettuce, strawberries; parts used as food, structure, etc. Try experiments in germination of bulbs such as the onion, of nuts, of grains. Put branches of trees and shrubs in water, and study development; study arrangement of buds, and blossoms. Note flowering of trees and watch result as fruit, nut, cone.

Show relationship of bird, insect, and plant life (Insects as a means of fertilization, and birds as destroyers of injurious creatures).

Observe weeds and methods of eradicating them. Compare evergreen trees with others, noting difference in leaves, bark, sap, etc. Get some maple sap and make sugar.

Make excursions to field, forest, water, farm, market and greenhouse, and visit as many industries as possible.

### Grades VII and VIII.

### Autumn.

Review and study more carefully roots, stems, leaves, flowers fruit of all available plants.

In the root-study consider adaptation. For example, a dandelion blooms earlier in spring than a clover: has the thickness of the dandelion root anything to do with this circumstance? Compare roots of water plants with those growing on well drained land: from this do you discern any purpose in draining? Where are the roots thickest when plants are grown in a flower pot? Why? Why are dandelions and couch grass hard to kill? These and many other similar questions should be studied. Notice the "tubercles" on roots of clover and explain their significance.

Stems include not only the woody, such as trees, but the herbaceous, such as buttercups. Their habits of growth with reference ample, to light, moisture, etc., are of great importance: Compare, for exthat does not cling. Why and how do plants climb? The work of stems far as it shows adaptation to this work.

In work with roots and stems, vegetable reproduction is importent. How do raspberries, strawberries, potatoes, geraniums, etc., also be taught here.

Leaves are best studied in spring, but should be reviewed in The indine test for starch should be applied to find when surplus come from?

The autumn flowers are rather difficult for minute study; but flowers child should at least know the name and habitat of the common flowers.

being such as why some weeds are harder to kill than others; why volve 'spread' more rapidly than others. These inquiries will inin itself and important economically.

Modification of certain parts of a plant for special work is an attractive subject. For example, a thorn is a stunted branch; so is a fruit spur. How do we know? What is the probable purpose or cause?

Observe the relation between shapes of trees and location of buds. Notice particularly lilac, pine, and fir.

The pupils of these grades should know every common forest tree of their section. Not only should they know pine, birch, and maple, but the different kinds of pine, birch and maple.

In the autumn, too, galls are numerous on willow and other trees; study the cause. Keep the galls over winter in pickle bottles to discover the insect that causes them.

Observe also bird migration, keeping dates of last appearance. What birds remain with us thruout the winter? Learn to identify them. Notice how insects prepare for winter.

(As far as possible the work should be based upon the farm surroundings of the pupil. Work for principles; not for facts alone.)

### Winter.

Plant life need not be wholly neglected during the winter. Such chemical experiments as heating starch and finding it composed of carbon and water; finding by the limewater test that carbon dioxide is in the air, and by the iodine test that plants contain starch are easily performed. Add to this the knowledge that air and soil contain water, and the inference is not hard to draw that plants form their starch from the carbonic acid gas of the air and water. Experiment will prove when this process goes on.

Furthermore, we have four or five evergreen ferns which could well be studied in winter; also, four or five club mosses and half a dozen mosses. Then there are the common rocks found by a brookside, in a cutting, or wherever rocks and stones can be found: identify these. Notice rounded pebbles and sharp-cornered stones: account for the difference of form.

Identify such economic minerals and rocks as iron ores, gypsum, limestone, sandstone, granite, gold in quartz, and any other available ores.

Teach a lesson or two on building-stone and brick-making; and connection with this, the different kinds of lumber, their uses comparative values.

Lessons on soil physics are important. The origin and kinds of soil should be taught, with some of their constituents. Hardness of water could be explained in connection with these. Springs and artesian wells are subjects not beyond these grades.

Take advantage of a thaw in winter to show the effect of ice on the distribution of soil. Find a large ice cake carrying mud and pebles, that has landed on a level field. Notice the snall "hill" of sand and pebbles left there when the ice melts. Then explain how, on a large scale, glaciers have changed the surface of the country. Observe deltas at the foot of a hill on the road after a heavy rain. Deal with this as a Geography lesson.

### Spring.

Study unfolding buds—flower buds and leaf buds; compare and contrast the two kinds. Where are buds located?

Compare the texture and covering of young leaves with that of older ones; why the difference?

Note the returning of the birds, the hatching of insects, awakening of snakes, development of frogs.

Follow spring operations of gardening and farming. In everything, keep before the pupil the relation of natural phenomena to human welfare. For example, the tree's activity in spring gives us a supply of maple sugar.

Instead of merely naming the parts of a flower, emphasize the use pollination of willows and alders. (Notice insects abundant on the flowers of the former). Teach how flowers are adapted to secure cross pollination by means of structure: gamopetalous, polypetalous, regular, irregular; by spurs on the corolla, etc.; by other devices, as, opening and closing at certain times, and by the various adaptations to insect pollination.

trast position of cones of fir and spruce. Con-

Note how flowers protect themselves against bad weather and injurious animals.

Observe plant societies. What ones grow in bogs? What by the road-side fence?

clover and potato. Observe day and night positions of leaves of plants such as the

With reasons for their strange appearance.

add One or two that are not evergreen.

Encourage the pupils to bring in, not only flowers, but everything belonging to outdoor life for suitable observation.

Since fruit-growing is one of our leading industries, the pupils should become acquainted at first hand with the various fungous diseases of plants and the best methods of their control; also, with the insects that are our greatest pests. The teacher can obtain assistance on these subjects by consulting bulletins and reports published by the Department of Agriculture, Ottawa. These bulletins will suggest what diseases are most troublesome and also their control. They will describe such diseases as "black-knot," "potato-blight" and resulting rot, "apple-scab," "fire-blight" (a disease of pear and apple), etc.

Handbooks for Teachers: The most complete treatise on Nature Study is Comstock's "Handbook of Nature Study," pub. by Comstock Pub. Co., Ithaca, N. Y.,; price \$3..60—a delightful and instructive compendium; for Grades III-VI, Overton & Hill's "Nature Study," price 40c., pub. by American Book Co.; for Grades VII, VIII, Brittain's "Elementary Agriculture and Nature Study," price 75c. (pub. by Educational Book Co., Toronto.).

## PHYSICAL EXERCISES.

To following exercises are recommended for frequent use in three minute periods at least three times a day, at, say, five minutes to ten, at half-past eleven, and at half-past two. They are taken from the school text-book:—

Series A, Table I: 1 d, 2, 4, 6, 8 Table II: 2, 3, 4

Table III: 1 b, 1 c, 3, 6
Table IV: 1 c, 5

Table V: 1 b, 2, 4, 8

These exercises are recommended for recreation or refreshment, and are not intended to displace the regular class exercises for training and development, which should have a much wider scope.

None of the exercises should be regarded by the teacher as mere skills to be acquired by the pupil. Nor should they be used to displace the free sports and games of the playground which, indeed, the teacher should promote, assist, and, as far as possible, supervise.

During physical exercises, windows and doors should be thrown open. Indoor exercises should be chosen from those movements which do not create dust.

The elements of squad-drill, such as column-formation, forming fours, marching, wheeling, should be practised outdoors in good weather.

Orderly marching into and out of the school should be the rule; and fire-drill should be practised at regular intervals, especially in schools of several departments or class rooms.

## HYGIENE AND TEMPERANCE.

### General Prescriptions.

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, their occasional disinfection, and the obviation of dust danger by the use of dustbane or oil;
- (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 little formal instruction is needed. Some knowledge of the human body is incidental to the "nature" work ment of the school are properly influenced by an acquaintance with hygiene principles, is measurably safe in omitting in those grades everything of the nature of laws of health, trusting entirely to a few care 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 are the normal condition of the child in waking hours, and should in accordance with this fact, limit the duration of periods devoted 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, indicated to sitting still, or to any one task. She should be dicated by the failing interest of the average pupil. She should be conversely the failing interest of the average pupil. conversant with devices for restoring interest and banishing fatigue thru change of occupation, thru free and vigorous physical exercise, and the occupation of the occupat and thru short intervals of unsupervised freedom. In general, it is expeditive short intervals of unsupervised freedom. expedient for her to have the pupils understand each new procedure adopted for their comfort, interest, and contentment. time, what was merely a rule will come to be understood as a law; and have a was merely a rule will come to be understood as a law; In no long and, by the recognition of law as the basis of rules of health and of life, the recognition of law as the basis of rules of health and of boint by the recognition of law as the basis of rules of point by the pupil will profit not only physically but morally. point is, indeed, made, when the teacher has thus convinced her public is, indeed, made, when the teacher has thus convinced her pupils of her genuine and intelligent interest in their physical well-being. being for, having once gained their confidence and good-will, she need having once gained their to any reasonable task. need have little fear of committing them to any reasonable task.

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 teacher uses her best endeavours to promote the use of tooth-brush and tub. And so with every principle dealt with in the text-book. Right conduct in the essentials 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 the effects of 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. Rudimentary and commonplace 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 little benefit will result from instruction that proceeds by any other course. The place of the text-book 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-lesson," and they should, as indicated in the present course of study, be permitted to supplant from time to time the usual "nature-lesson."

# Special Prescriptions.

# First Four Years.

(To be given in First year and reviewed in Second, Third and Fourth).

Body: Right and left hands, feet, eyes, sides; forearm and upper arm; elbow, joint, wrist.

Correct position in standing, in sitting; injuriousness of crooked posture. Practise of orderly and self-controlled movements; motion songs; out-door games taught and supervised by teacher. (Good handbook: "Play", by E. Angell; Little, Brown & Co., price \$1.00).

Cleanliness of body, face, teeth, hands, etc., for health and the for decency. Disgusting and dangerous habits, such as biting nails, spitting, wetting the thumb in the mouth to turn the page, sucking a pencil, chewing gum from another person's mouth. Clean liness of clothing, of handkerchief. Necessity of bathing with soap and water, and of changing the clothing at least once a week. Dirt and dust carry disease.

Care of teeth: Teeth to be brushed and mouth rinsed out night and morning (ascertain how many children obey this precept and endeavor to increase the number); cracking nuts with teeth and

picking teeth with pins to be avoided; neglect of "first" or milk-teeth punished by poor second teeth, mis-shapen mouth, and poor health. (A tooth-brush costs from 10c. up; precipitated chalk, 2c.)

by poor light, of rubbing the eyes with dirty fingers.

Food: Importance of chewing food well and of not over-eating; function of saliva; loss of saliva in chewing or smoking tobacco. Tea and coffee not good for children; alcohol injurious and dangerous; milk or milk and water the best drink for children.

Health: A source of comfort, of usefulness, and of proper pride. Health is the best protection against attack from disease. Health going to be maintained only by eating good food and chewing it well, by thru play and work, by keeping our bodies clean and our hearts free from guilty and ungenerous thoughts.

Table-manners: Eat slowly; do not drink while chewing; learn to use properly the knife, spoon, and fork, and to eat quietly, and decently. Courtesy in general as conducive to convenience and happiness.

hearing. Children learn by seeing and doing rather than by

### HYGIENE.

### Grades V and VI.

Bones: Injury to them from standing or sitting in crooked high a desk; bone-growth stunted by use of tobacco or alcohol; location of the principal large bones.

Muscles: How they move the bones (e. g. of the arm, hand, and the children to locate these from their several contractions, the teacher to explain the action by a diagram).

hard Protective enamel; saliva and the digestion. How the stomach tea or coffee, and from alcohol.

The Lungs: Air sacs and passages; how air gets to them; blood. How to fill the lungs with air; full, deep breathing, and exertoul air and their different effects on the health: headache, flushed to air the schoolroom and the sleeping room.

The Heart: A muscular organ that contracts and dilates, pumping blood thru our arteries and receiving it back thru

the veins. Observe and count heart-beats and pulse beats; compare the count per minute. Note the effect of violent exercise on the heart-beats, on the face, the arteries and veins; note the effect of fear, of sickness, especially of fever.

The Brain and Nerves: How to keep them healthy—by taking good food, plenty of sleep, exercise, and by breathing good air, and by avoiding tobacco and alcohol.

The Skin: A protection and an eliminator of waste-products. Oil and sweat glands; pores; need of frequent bathing and change of underclothing. Habitual uncleanliness offensive and disgraceful. The importance of regular habits of ridding the body of waste matter. Regular habits and intelligent obedience to laws of health, man's best medicine. The patent-medicine habit a blind and dangerous method, often resulting in permanent injury from narcotics and poisons contained; drug-taking becomes a habit like opium or alcohol.

The Organs of Sense and their more obvious structure. Cautions against touching the eyes with dirty fingers, against straining the eyes, against striking or pulling or picking the ear.

Hygiene of the Home: The nature of diseases and ways in which are "caught." Fresh air and sunlight. The house-fly as a disease-carrier; protection against flies. Closets, garbage, drains the position of the well; relation or cooking, tastiness of food, to appetite and digestion.

Typhoid fever and tuberculosis (or consumption) are diseases which we can get rid of and should try to get rid of—how?

First Aids, to persons who have fainted, who have cut themselves badly or who are insensible from drowning.

Handbook for Teachers: "Good Health," by Frances Gulick Jewett, pub. by Ginn & Co., price 45 cents—an excellent book whose treatment of the topics may well be imitated by the teacher.

## Grades VII and VIII.

In these grades, if the text-book is placed in the hands of the pupil, it must not be used for learning from by rote. It should be used to supplement or correct observations made at first hand by the pupils under the direction of the teacher. It may occasionally be used as a reader, but the teacher must be careful to have it read slowly understandingly, and with frequent interruption for question, reflection, illustration. The general work of the class should proceed as in the lower grades, that is, either by orderly succession of topics or by suggesting 'problems' or subjects of inquiry. In either the work should be as much as possible of the character of a 'nature' study, pupils and teacher bringing to bear on each subject, the their own observation, secondly, the information furnished by the book.

The topics to be treated are the same as those prescribed for grades V and VI, but the treatment should call for more exact and numerous observations and for a somewhat more complete study of structures, functions, and processes. Teachers must be careful to see that the technical language of the book is explained by translation into ordinary language.

In the school-room, one of the teacher's first duties is to attend to the comfortable and hygienic seating of the pupils, reserving the higher desks for the taller children, placing in front seats the nearsighted pupils and those of detective hearing, irrespective of the grades to which they belong. The teacher should be vigilant to detect disease, defective hearing, and sight, obstructed breathing, etc., and prompt to report such cases to parents.

### MUSIC.

Owing to the continual changing of teachers, the unmusical alternating with the musical, the development of musical knowledge, and a continual change in the musical continuation. The ubiquity and of the ability to sing at sight is discouragingly slow. The ubiquity of the reed-organ and the piano has rendered sight-singing less essential at the organ and the piano has rendered sight-singing less essential at the organ of those tial than formerly, and has obscured its value to the eyes of those who cannot play some instrument. Teachers who cannot sing at sight cannot play some instrument. Leachers who cannot teach either tonic sol-fa or staff, and a mistaken notion prevails that such teachers are justified in giving only a perfunctory attention to the singing of the school. Means should be taken to correct this fallacy. Well conducted expressive singing "by ear" may exceed in value the musical exercises of some schools where sightsinging is taught. Singing, it should be made plain to the teacher, is one of is one of the few avenues for the child's emotional expression in school, the few avenues for the child's emotional expression in school, (the teacher has others); and, for the well-balanced development of the child, emotional, no less than intellectual experiences should be prochild, emotional, no less than intellectual experiences should be provided, emotional, no less than intenection capetion in the idiom of the "national or folk songs, which are the expression in the idiom of the people, of their joys and sorrows, their unaffected patriotism, their zest for zest for sport, and the simple pleasures of a country life. Such music is the is the early and spontaneous uprising of artistic power in a nation, and the early and spontaneous uprising of artistic power in a nation, and the ground on which all national music is built up; folk-songs are the ground on which all national music is often by tra-"are the ground on which all national music is built up, ionate the true classic of a people, and their survival, so often by traditional results of the direct and lasting." "dition alone, proves that their appeal is direct and lasting."

The first two considerations for the teacher are:

- The proper use of the voice in singing.
- (b) The choice of suitable and worthy songs.

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, to see to it, first that children use their singing-voice of register, (the use of the "head" register is easily ensured by the child's and continuing his singing, softly and lightly, in the "head" notes which assume his singing, softly and lightly, in the "head" notes which ascend from there); secondly that pupils learn each year a half-dascend from there); 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 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 pittes that our children should not be learning and singing these in school and out, instead of contenting themselves with characteriess songs from American so-called "School Song" books, and scraps of contemptible hallade glassed from the song themselves with characteriess songs from American so-called "School Song" books, and scraps of contemptible hallade glassed from the song themselves with characteriess songs from the song the song themselves with characteriess songs from the song themselves with characteries song the song themselves with characteries song the song themselves with the song themselves with the song the song themselves with the song themselves wit tible ballads gleaned from vaudeville. For the upper five grades of the common school than a line the common school there should be no great difficulty in selecting good songs; and such songs, as well as being precious in melody and in literary quality and in literary quality, will often associate themselves with our common religious and marel religious and moral experiences, or with historical and geographical incident. Consider for associate themselves with our comments of the consider for associate themselves with our comments and geographical incident. incident. Consider, for example, such Christmas songs as "It came Upon a Midnight Clear," "We Three Kings of Orient Are;" ancient hymns like "Conquering Kings their Title To The Conquering Kings their Title To Title To Title Tit "The Strife is hymns like "Conquering Kings their Titles Take," "The Strike O'er, the Battle Won," "O Come, all ye Faithful;" songs associated "Flowers" with our past and the countries of our forefathers, such as "Flowers of the Forest" "Colleg Harris" " of the Forest," "Caller Herrin'," "Tara's Hall," "She is of from the Land" "Pula Prizza " from the Land," "Rule Britannia;" national hymns, as those the France, Germany, Russia, Denmark; Canadian songs, such as the stately "O Canada," which was sung with effect at the Quebec Tercentenary, and "A Canadian Boot Song" centenary, and "A Canadian Boat Song."

Either the Tonic Sol Fa or the Staff Notation may be taught. Some teachers prefer to commence with Tonic Sol Fa and to introduce the staff notation in grade IV or grade V. In Great Britain tonic sol fa is found to be so easy and universal, that ballad and song music in the magazines is printed in this simple notation.

### Grade I.

Material: Rote-songs; motion songs.

Voice Training in clear articulation and in purity of tone. sing sist on soft, light tones. Surround monotone singers with good singers and encourage them to listen to voices near. (These little people should receive daily attention.) Sing with expression.

Ear Training: Imitation; recognition of a few well-known melodies. Establish the scale by rote and rote-melodies. Develop sense of rhythm thru gestures and especially in the motion songs.

### Grade II.

Material: Same as First Grade.

Voice Training: Same as First Grade.

Ear Training: Tests in short, simple, rhythmical phrases of intervals of tonic, dominant and sub-dominant chords. Recognition of a few new well-known melodies.

Vals of dominant, tonic and sub-dominant chords, and point same on staff staff. (b) Time. Rhythmical gesture continued. Sing and study simple rote songs from picture notation of the same.

### Grade III.

Material: Chart No. 1. (New Educational Course: Ginn & Co.). Rote songs, supplied.

Voice Training: Same as First Grade.

Ear Training: Recognize melodic phrases, tonic, dominant, Subdominant chords. Recognize melouic pinases, come, part minant chords. Discrimination between two, three and fourpart measure. Recognition of melodies suggested.

thru representation of rote songs.

Elements of written music taught Application made of this knowledge. (b) Time. Rhythmical gesture continued. Develop simple single sin forms of two, four and three-part measure. Sing melodies from chart

### Grade IV.

Material: New First Reader. (New Educational Course).

Voice Training: Require strict application of principles already taught.

Ear Training: More difficult tests. New melodies for recognition,

Sight Singing: (a) Tune. Develop sharp four thru rote Song. Application of principles already mastered.

(b) Time. Develop equally divided beat thru rote songs. Melodies Studied from Reader, as outlined.

Teach letters of staff, different kinds of notes and rests, and names

Musical Interpretation: Learn meaning of expression marks found in songs studied, and practise voice-control and expression.

### Grade V.

Material: New Second Reader. (New Educational Course).

Voice Training: Exercises suggested.

Ear Training: Same as Fourth Grade.

Sight Singing: (a) Tune. Further application of sharp four. Rounds.

Time. Develop dotted note. Melodies selected and outlined every month. Written work as suggested.

Musical Interpretation: Same as Fourth Grade.

### Grade VI.

Material: New Third Reader. (New Educational Course)

**Voice Training:** Exercises suggested.

Ear Training: Same as Fourth Grade.

Sight Singing: (a) Tune. Chromatic tones developed as they occur. Two-voiced work continued.

(b) Time. Fifth Grade work continued.

Melodies studied from Reader, as suggested in month's outline.

Written work as suggested. Written work as suggested.

Musical Interpretation: Same as Fourth Grade.

## Grade VII.

Material: New Third Reader. (New Educational Course.)

Voice Training: Exercises suggested. Use great care in treat t of boys' voices. Careful assis ment of boys' voices. Careful assignment of parts.

Ear Training: Sixth Grade work continued. Recognize major minor melodies and minor melodies.

Chromatic drill continued Sight Singing: (a) Tune. Three-voice work developed. Minor mode.

(b) Time-reading.

Melodies studied from Reader as suggested in month's outline-ten work as suggested. Written work as suggested.

## Grade VIII

Material: New Fourth Reader (New Educational Course). Seventh Grade work reviewed, if necessary. This year should be spent in studying beautiful songs, applying principles mastered. in studying beautiful songs, applying principles previously mastered. Special attention to musical culture in its 1 Handbook of method in teaching music from the staff: Rix's Handbook of Music", pub. by Macmillan, (price \$1.00), or Newton's Handbook to the New Educational Music Course.

Handbook of Motion Songs for first four grades; "Motion Songs," Mabel L. Pray, price 40 cts. pub. by D. C. Heath, Boston).

### ALTERNATIVE COURSE.

Tonic Sol fa, with Transition to Staff Notation.

### Grade I.

Doh, me, so, from manual signs and blackboard modulator.

### Grade II.

One—doh, soh—one, te, ray, from hand signs and blackboard board. Simple melodic phrases on these tones from blackboard, but without time forms.

### Grade III.

Scale completed. Simple tunes from blackboard.

Time:—Whole pulses, whole pulse continuations and silences.

tones from hand signs and blackboard or modulator.

### Grade IV.

Day Melodies, Part I). To sing while pointing on modulator, very vantageously, must first memorize the tune correctly both in time and

Time:--Half pulses. Practise on time chart.

singing from books.

\*\*Real Harmony:—Practise as in Grade III. Rounds and two-part

Ear Exercises:—Do, me, soh, one-doh, soh-one.

#### Grade V.

lator. Tune: Grade V in singing books. Point and sing from modu-

Time: Half pulse continuations. Time chart.

Harmony:—Practise as in previous grades from hand, blackboard and modulator. Tunes and rounds from singing books. Tuning exercises.

Ear Exercises:—Te and ray. Groups of two or three of the tunes previously studied, as ear exercises.

Time Ear Exercises:—Taa, Taa-aa.

### Grade VI.

Tune:—Singing books silences Fe and Ta. Simple transitions on modulator.

Time:—Half-pulse silence.

Tuning Harmony:-Practise as in previous grades, and books. exercises.

Ear Exercises:—Fah and lah. Simple groups of tones.

Time Ear Exercises: - Taa-tai.

### Grade VII.

Tune:-Books. Practise in transition. Half tones of scale.

Time:—Quarter pulses.

Harmony:-Tunes. Rounds. Tuning Exercises.

Ear Exercises:—Write tones of a simple phrase from teacher's ing to laa. singing to laa.

Time Ear Exercise:-Taa aa-tai.

## Grade VIII.

Tune:—Minor mode begun. Simple staff exercises on scale s. tones.

Time:—Quarter pulse combinations. In staff notation whole, and quarter notes in 3-4. 2-4 and 4.4. half and quarter notes in 3-4, 2-4, and 4-4 time with written exercises. Whole, half and quarter rests

Harmony:—Tunes and rounds. Three part singing begun.

Ear Exercises:—As in Grade VII, extended.

Time Ear Exercise:-Taa-sai, saa-tai.

### Grade IX.

Tune:—Minor mode and practise from books. In staff notation, for half tones, simple transitions and minor mode phases. Symbols

of a pulse. In staff notation,—Use of dot after a note or rest. 3-8 and 6-8 time. Eighth rests.

Harmony:—Three part singing.

Ear Exercise:—Phrases with half tones.

Time Ear Exercise:—Ta-fe-te fe, taa-te-fe, taa faa tai.

Detailed instruction in developing the points specified in the course of study will be found in "The Song Teacher's Guide," the new hand book for teachers. A valuable feature of this text book is the group of specimen lessons, which should prove particularly useful to young teachers.

"School Day Melodies," the singing book for the children, has been prepared with special reference to the requirements of the course of study in music. It contains absolutely all that is necessary for the full course in Tonic Sol Fa—the Songs, Exercises for Tuning, Time, etc., are all exactly classified and grouped according to the different grades, enabling the teacher to attain the best results without expending unnecessary labor in blackboard transcriptions. A copy of this of the been the hands of every pupil above Grade III. Children of the primary grades may be taught a few simple songs by rote in addition to the work laid down in the course of study. The words as we should avoid as far as possible, having the children make any use material which they have not yet been trained to understand.

# NOVA SCOTIA PROVINCIAL EDUCATIONAL ASSOCIATION.

# [Provisional Program.]

The Provincial Educational Association of Nova Scotia will meet in Halifax on the 27th, 28th and 29th of August, 1912.

### Tuesdav 27th.

- 9 a. m. Enrolment.
- Opening address by the Superintendent of Education.

  Appointment of Committee on Resolutions.

  (Subjects not on the Program may be presented thru this Committee for discussion by the Association.)
- 11 a. m. Proposed Course of Study for Elementary Schools submitted by Dr. Soloan, Chairman of the Committee.
  - 2 p. m. Discussion on the Proposed Course of Study, introduced by Principal Butler, Halifax, and Professor DeWolfe, Normal College.
  - 8 a. m. Conversazione. Addresses of Welcome by Dr. Blackadder, Chairman Halifax School Board; Commissioner Harris; and Principal Sexton, Technical College, Replies by Inspector Macdonald, Principal Brunt, and Dr. Soloan. Refreshments.

## Wednesday 28th.

- 9 a. m. How to Improve the Professional Standing of Teachers and retain them in the Profession. Discussion.
- 10.30 a.m Humanistic Culture thru English Literature.
- 11.30 a.m Meeting of the Nova Scotia Teachers' Union, Principal Creelman presiding.
  - 2 p. m. Discussion on the Elementary Course of Study (continued).
  - 8 p. m. Public Meeting. Speakers: His Grace Archbishop MacCarthy; President Mackenzie of Dalhousie University; Principal Cumming, Agricultural College,; Chairman Robertson, of the Royal Commission on Industrial Training and Technical Education; Rev. Mr. Cohoe, Halifax.

## Thursday 29th.

9 a. m. Teachers' Salaries, Inspector MacIntosh. Discussion: Principal Brunt, Principal O'Hearn, and others.

10.30 a.m Vocational Education: Chief Superintendent Carter, N. B. Discussion: Dr. J. W. MacMillan, Principal Sexton, and others.

2 p. m. Election of Executive Committee and of Representatives on Advisory Board.
Report of Committee on Resolutions.
Discussion.

the School Regulations to send delegates.

The usual railway reductions may be expected.

A. McKay, Secretary.

Halifax, 29th April, 1912.

## TEACHERS' UNION OF NOVA SCOTIA.

### Notice.

A circular from the Teachers' Union was sent last winter to every the Inspector's visit kindly send their answer "yes" or "no" to their cent. We desire a complete vote. A post card costs but one already answered.

## W. A. Creelman,

President, Teachers' Union.

10th April, 1912, Sydney, N. S.

# EDUCATIONAL ASSOCIATIONS AND INSTITUTIONS.

(Regulations.)

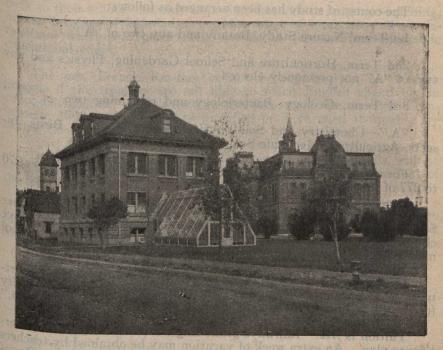
## Provincial Educational Association.

to assemble biennially or annually, if desirable, at the Normal College, any other place which may be approved by two-thirds of the exec-

utive committee hereinafter provided for, a provincial educational 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 elucidation of educational problems.

# 134. The membership shall be:

- (a) Representative members entitled to enrolment on the payment of one 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, 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.
- 135. The Superintendent, the principal of the Normal College, and twelve other persons chosen at each annual convention by the ordinary members of the association, one of whom shall be from each inspectorial 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. The executive committee shall have general management of the affairs of the association, especially in respect to the fixing of the times of meeting and the program of exercises, subject to the approval of the Superintendent.
- 136. The association shall appoint a secretary, and, if necessary, an assistant secretary, who shall keep a record of the proceedings of the meeting, and forward a written report of the same to the Superintendent.
- 137. The Superintendent shall preside at the meetings of the association and of the executive committee. At his request another member may preside. In his absence the principal of the Normal College or the senior inspector present shall take his place.
- 138. The Superintendent is authorized to use the Normal college building and appliances for the meeting of the association when held in Truro, and the principal and professors will aid to the extent of their power in promoting the success of such meetings.



### RURAL SCIENCE SCHOOL.

The next session of the Rural Science School will be held in Truro from July 10th to August 9th, 1912. This school is in affiliation with the Provincial Normal and Agricultural Colleges and all the laboratory equipment and resources of these institutions are available for the work of the school. The facilities for scientific study are, therefore, exceptionally good.

The Rural Science School is, under authority of the Council of Public Instruction, the only appropriate source of Rural Science Diplomas and Certificates qualifying for additional Government grants.

The course of study extends over three sessions and leads to the Rural Science Diploma. A student, however, who attends for one session and passes the examinations and tests on the subjects of study for the term is eligible for an additional Government Grant of \$15 for the following school year—see Manual of School Law, 1911, page 30, Sec. 72. This means that every student, who attends the School for one year, may obtain the equivalent of, at least, a \$15 Scholarship. Besides, the Government will pay the minimum transportation cost of all Nova Scotia teachers attending the school.

Under the revised regulations (Manual of 1911, page 137), the holder of a Rural Science Diploma may obtain an additional grant of \$30 per annum, whether or not the school section furnishes a School Garden, provided other conditions are satisfactory.

The course of study has been arranged as follows:

1st Term, Nature Study, Botany and any two of "A."

2nd Term, Horticulture and School Gardening, Physics and any two of "A" not previously elected.

3rd Term, Geology, Bacteriology and remaining two of "A."

"A,"—Chemistry and Soil Physics, General Biology, Birds, Insects, Agriculture, Mechanic Science.

For the details of the Courses see regulations 263 to 280, pages 270 to 277 of the Manual of School Law, 1911.

Equivalent work done in Colleges, High Schools or Summer Schools may exempt students from attendance in any of the above classes, but the examinations and tests of the Rural Science School must be passed before any Certificate or Diploma is awarded.

Instructors in Physical Training will be furnished by the Department of Militia and Defence, so that attending students may qualify for the grade "B" certificate required of all teachers above class "D."

Tuition is free. Railways grant single fare on the Standard Certificate plan. An extra week of vacation may be obtained by teachers as in Regulation 145, notwithstanding the second clause of that Regulation in the Manual of 1911.

With the liberal provisions that have been made to encourage teachers in the teaching of Rural Science, it is hoped that as many as possible will embrace the opportunity offered.

For further information regarding boarding houses, etc., address M. Cumming, B. A., B. S. A., Director, Truto, N. S.

# CLASSES FOR BILINGUAL TEACHERS.

Classes in language-methods for bilingual teachers in Acadian schools will open on Tuesday, July tenth, and continue till Friday, August ninth. Applications for admission should be sent as early as possible to the principal of The Provincial Normal College, Truro

In view of the very attractive program of work offered this summer in the department of advanced biology, elementary agriculture, nature-study, music, manual training, and physical drill, 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

back to their schools not only improved methods in language-teaching, but an increase of knowledge, a wider range of 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 colloquial fashion, as indicated in the Report of the Acadian Commission, 1902, unless they are qualified or have tried to qualify 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

Minimum travelling expenses will be paid to students who are regularly employed teachers in Acadian communities, and who speak both languages with fair fluency.

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 FOR THE ATLANTIC PROVINCES OF CANADA.

The twenty-sixth Annual Session of the Summer School of Science for the Atlantic Provinces of Canada, will be held at Yarmouth, N. S., July 10-1, the following subjects. July 10th to 31st, 1912. Courses will be given in the following subjects.

Agriculture by Prof. D. W. Hamilton, Ph.D., Fredericton.

Chemistry by Prof. Bigelow, Ph. D., Sackville.  $C^{\mathrm{eology}}$ by Prof. H. H. Haggerman, M.A., Fredericton.

Literature by Prof. D. S. McIntosh, M. Sc., Halifax.

Manual By Mr. S. A. Starrrat, B. Sc., Roxbury Manual Training, Miss M. Alethea Wathen, Roxbury, Mass. hysiology by Mr. T. C. McKay, Ph. D., 200logy by Mr. W. S. Rich, M.A., Fredericton. Socorro, New Mexico.

Zoology Malden, Mass. by Prof. H. G. Perry, M. Sc., Truro.

The courses cover the requirements in these subjects for the schools in Physical Training which qualifies for the B certificate.

Through the munificence of public men in the three Provinces, upwards of Sixty Scholarships of from \$10 to \$20 will be offered for competition.

Any information in reference to the School can be obtained by applying to the Secretary, Mr. J. D. Seaman,

63 Bayfield Street,

Charlottetown, P. E. I.

# THE NATIONAL EDUCATION ASSOCIATION OF THE U. S. A.

will be held in Chicago, Illinois, from the 6th to the 12th July, 1912. The National Council meets on the 6th, and the general sessions of the Association commence on the 8th and close on the 12th July.

# Irwin Sheperd,

The Secretary, N. E. A.,

Winona. Minn., U. S. A.

Local Secretary.

Mr. George M. Spangler, Jr.,

Manager Bureau of Conventions,

Chicago Association of Commerce,

20 West Jackson Boulevard, Chicago, Ill.

# LEAGUE OF THE EMPIRE.

# Imperial Conference of Teachers' Associations.

July 12th to 16th (inclusive), 1912.

Caxton Hall, Westminster, London, England.

## AGENDA.

(Draft.)

First Session, Friday, July 12th, 11 a. m. to 1:30 p. m.

Address of Welcome.

Training of Teachers.

- (a) Vocational training in the different Countries of the Empire. Length of training—conditions of training. (Professional and University.)
- (b) A common standard for Teachers' certificates and mutual recognition of such certificates thruout the Empire.

# Second Session, Friday, July 12th, 2:30 to 5 p. m.

Migration of Teachers.

- (a) For advantages of travel-study and for attending courses of lectures and for opportunities for observation and practical work in the Schools of other Countries.
- (b) For purposes of conference and co-operation.
- (c) For temporary interchange of appointments in different parts of the Empire.
- (a) Third Session, Saturday, July 13th, 10 a. m. to 1 p. m.
- 1. Rural Schools, their curriculum and organization.
- handicraft, in the training of the child.
  - (b) Third Session, The Teaching of Greek and Latin. Fourth Session, Saturday, July 13th, 2:30 to 5 p. m.

Co-ordination in Education.

 $S_{chool}$  connexion between the Elementary and the Secondary

- (a) In respect to curricula.
- (b) In respect to the transfer of scholars.
- (c) In regard to the promotion of teachers.

# Fifth Session, Monday, July 15th, 10 a. m. to 1 p. m.

Technical Education:-

- (a) In its relation to local industries.
- (b) In its relation to general scientific and trade research.

# Sixth Session, Monday, July 15th, 2:30 to 5 p. m.

1. The teaching of Local History and Nature Study.

2. The interchange of information and specimens as between schools in different parts of the Empire.

# Seventh Session, Tuesday, July 16th, 10 a. m. to 1 p. m.

- 1. The English Language and Literature.
- (a) Difficulties of pure pronunciation.
- (b) Advantage of the visual help of pictures and lantern slides in the teaching of English literature.
- 2. Physical Education.

Physical Exercises as a training for co-operation in the body politic.

Demonstrations.

## Eighth Session, Tuesday, July 16th, 2:30 to 5 p. m.

- 1. The importance of including subjects which serve to train the character and taste.
  - 2. The place of History and Geography in Education. Closing Address.

## **EXAMINATION TIME TABLES, 1912.**

Monday, 1st July, being Dominion Day, the papers usually set for the first day will be set for Monday, 8th July.

# 108 (a) TIME TABLE. County Academy Entrance Examination, June, 1912.

Date.	Time.	Subject.
h June.	9 to 11 a. m.	2. English Language.
Thursday 27th June.	2 to 3.30 p. m.	3. Drawing and Book-keeping.
Thur	3.30 to 5 p. m.	4. Geography and History.
n June.	9 to 11 a. m.	6. Mathematics.
Fri.28th June.	2 to 3.30.	5. General Knowledge.

<sup>1.</sup> Reading to be examined at the end of each session, or when ever found most convenient by the Principal.

## (b) TIME TABLE.

Regular	Provincial	High	School	Examination,	July, 1912.
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Day of Week	Grade	Examinations 9 a. m., to 11 a. m.	Examinations 11 a.m., to 1 p.m.	Examinations 3 p. m., to 5 p. m.
Tuesday 2nd July.	XII. XI. X. IX.	English (a) English English English	Greek (b) Greek Greek	French. French. French. French.
Wedn'day   3rd July.	XII. XI. X. IX.	Geometry Geometry Geometry Drawing.	Ancient History	Physics. General History. English History. Geography.
Thursday 4th July.	XII. XI. X. IX.	Algebra Algebra Algebra Algebra	Latin (a)	Botany. Physics. Chemistry. Science.
Friday 5th July.	XII. XI. X. IX.	Latin (b) Latin Latin Latin.	English (b)	Trigonometry. Pract. Math. Arithmetic. Arithmetic.
Monday.	XII. XI. X. IX.	German. German. German.	Greek (a)	Chemistry.

# (c) TIME TABLE.

# M. P. Q. Examination 6th July, 1912.

### Saturday.

Time a. m.	Subject.	Time p. m.	Sibject.
10.10 to 10.00 1.	School Law and Forms.	2.00 to 3.00	4. School Management. 5. History of Education. 6. Pedagogy.
11.20 to 11.10 2.	Theory and Practise.	3.10 to 4.10	
to 12.20 3.	Hygiene and Temperance	4.20 to 5.20	

109.

#### TIME TABLE.

## UNIVERSITY GRADUATE EXAMINATION,.

### AT THE NORMAL COLLEGE, TRURO.

2 July 9 to 12 A. M.	Latin (higher, A) and Latin (lower).
2 to 5 P. M.	French (higher, A) and French (lower).
3 July 9 to 12 A. M.	English (higher A) and English (lower)
2 to 5 P. M.	Mathematics (higher, A) and Mathematics
	(lower).
4 July 9 to 12 A. M.	Science (higher, A) and Physics (lower).
2 to 5 P. M.	Science (higher, B) and Latin (higher, B).
5 July 9 to 12 A. M.	Science (higher, B) and Latin (higher, B). English (higher, B) and Mathematics (higher, B).
2 to 5 P. M.	Greek (higher, B) and French (higher, B).
6 July 9 to 12 A. M.	German (higher, B) and *Chemistry (lower).
2 to 5 P. M.	*Biology (lower) and *Geology (lower).
8 July 9 to 12 A. M.	Greek (higher, A) and Greek (lower).
2 to 5 P. M.	German (higher, A) and German (lower).

\*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. In 1912, as there are only four candidates, a contracted time table from July 2nd to 6th will be mailed to each candidate.

# STRATHCONA PHYSICAL TRAINING PRIZES.

To be competed for in School year, 1911-1912.

The present twelve inspectorates of the Province shall be the Provincial sub-divisions for supervision of, and competition in, Physical Training for the Strathcona prizes which shall be apportioned for 1911-1912 to each inspectorate in proportion to the annual school enrolment of the previous year.

# PHYSICAL TRAINING PRIZES.

Division	No.	1	Inspector	Creighton	70.11
44	4.6	9	11	M. Strength to H	42.20
"	44	3	"	Macintosn	25.30
4.6	"	$\overset{\circ}{4}$	44	334 acc.	97.50
"	44	5	"	Robinson	39.89
44	"	6		MacDonald	26.9
44	. "	7	"	MacDonald Macneil MacKinnan	21.08
"	16.	8	4.6	Macneil MacKinnon Armstrong	22.01
"	"	9	4.4	Armstrong.	40.23
44	44	10	44	Craig	61.96
"	44	11	14	Phelan	23.64
**	"	12	"	Phelan	50 00

- The inspector 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, 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 sub-divisions of each inspectorial division are intimated, for the present year, 1911-1912.
- for (1) Halifax City, (2) West Halifax, (3) East Halifax, and (4) Rural ratio of \$7.00, \$5.00 and \$3.00
- No. 2. A first and second prize, respectively, to each of the following three sub-divisions of the inspectorate, sections having Lunenburg Cadet Corps, being excluded from the competition—(a) West of the LaHave River, (b) Lunenburg County West of the LaHave River and (c) Queens County.
- (a) No. 3. One prize to each of the following four sub-divisions, Sections having a Cadet Corps to be excluded.
- spectorate, (a) Annapolis East, (b) Annapolis West, (c) Digby and Digby Co.

  Two second prizes, one for Annapolis Co., and one for Competition.
- of the inspectorate, (a) Hants East, (b) Hants West, (c) Kings East Steam Mill, Centreville and East Halls Harbor), and (d) Kings West. Sections with Cadet Corps excluded.
- Districts of Antigonish and Guysboro; and two, a first and second, the District of St. Mary.
- District, and two similar prizes to Richmond District.

- Margaree River, and (b) Inverness North, north of the Margaree; Victoria Co. Sections with Cadet Corps excluded.
- (b) No. 9. Two prizes of equal value for (a) West Pictou and, Fast Pictou. Sections with Cadet Corps excluded.
- No. 10. One prize for each of the following sub-divisions (a) "Short Line," (b) ungraded schools to the west of the I. C. R. and

south of the "Short Line," (c) Graded schools not in the incorporated towns. (d) A first and second prize for the schools in the incorporated towns.

No. 11. Two-thirds of the total amount to be awarded to the graded schools of the Division in five prizes in the proportion of 9, 8, 7, 6, and 5; and one-third of the total amount to be awarded to the ungraded schools of the Division in three prizes in the proportion of 7, 6, and 5.

Departments any of whose pupils belong to Cadet Corps to be excluded.

No. 12. North Colchester one prize. West Colchester one prize. South Colchester two prizes. Sections having a Cadet Corps will not be eligible for competitions.

# Physical Training Imperative in all Schools.

Altho Third class teachers are not required to have a certificate of qualification to give physical training in school as it should be given, they are nevertheless required to qualify as far as possible, and to give the most suitable exercises from the prescribed text, to the conditions of the school. This is one of the health precautions imperative in every school.

Every teacher of class higher than third must satisfy the Inspector that the exercises suitable to the conditions of the school are being regularly given to the pupils according to the prescribed text. Neglect or inefficiency in this respect on the report of the Inspector will render the teacher liable to a reduction of Provincial Aid to the next lower class.

To assist the Inspectors in making the allotment of Prizes for Physical Training from the Strathcona Trust, a report in the subjoined form should be sent by each Principal (or Teacher in case of ungraded schools) to the Inspector on or before the 31st of May.

lame of Teacher.	•	No. of lessons in P. T. per week.	No. of minutes per week given to Recreative exercises.	Remarks.
		***************************************		i
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	1			i .

. Principal.

More, devoted to teaching a Table.

Column 3, "Recreative Exercise" is the short break in each long familiar exercises.

## Physical Training Courses.

Rural Science School, Truro, N. S., from 10th July to 6th August, N. S. and at the Atlantic Summer School of Science at Yarmouth, from 10th July, to 31st July, 1912.

After 1912 only such Male Teachers as are already in possession of a Grade "B" Physical Training Certificate will be permitted to attend the Cadet Instructor's Courses. Teachers contemplating applying for the latter course next year, should qualify in Physical Training this year.

## Physical Training Text Books.

In all the schools of the Province the Physical Training will follow the "Syllabus of Physical Exercises for Schools", Canadian edition, 1911, published by the Executive Council, Strathcona Trust.

It is designed to furnish a uniform standard of training in this subject thruout the Dominion and is practically a reprint of the Syllabus authorized by the British Board of Education.

These books can be obtained from Messrs. T. C. Allen & Co., 124 Granville St. Halifax, N. S.; or from The Copp Clark Co. Ltd., Toronto, Ont.

Changes.—Wherever the expression "Half Right (or Left) Turn" occurs, as in Table 64 and following, Substitute "Right (or Left) in-cline."

Table 64—Group 1, b.—

"With Turning Feet-Change" is performed in four motions,

The explanatory Note should read "First the Left Foot is brought back, then the usual Right Turn is made in two motions; the Right Foot then lunges outward on the fourth motion."

## Military Training.

There will be a six weeks Course to qualify male teachers as Cadet Instructors during the Summer Vacation opening about July 1912. This Course will be held either in Halifax or at a Camp of Instruction. Any teacher wishing information as to details of the course may obtain same on application to the Organizer and Inspector of Cadet Corps, The Armouries, Halifax. N. S.

Free transportation will be granted to the place of training, and return transportation to those who succeed in obtaining a certificate,

# Applications.

As only a limited number can take the course this year, preference will be given to those teachers most likely to be of some value in the Corps of School Cadet Instructors. Application containing full name, Militia Rank if any, and name and address of the School in which applicant is at present employed should be sent to the Superintendent of Education thru the Inspector of the Division, not later than June 6th. The Inspector will forward the application with a minute as to the

probable value of the applicant for cadet work, having regard to his work in school during the past year. Applications should reach the Education Office before June 12th when those admitted are notified.

### The Course.

The Course will include.-

The Syllabus of training for Lieutenants (Infantry).

(b) Scouting, (Baden Powell's "Scouting for Boys"). Physical Training for Schools.

(c)

After 1912, no application for a Cadet Instructor's course will be Considered unless the applicant already holds a Grade "B" Physical Training certificate.

# Corps of School Cadet Instructors.

Teachers who qualify as cadet instructors and who are actually instructing a bona-fide organized and gazetted Cadet Corps, will be appointed to the Corps of School Cadet Instructors with the rank of structure in the Militia. The mere fact of holding a Cadet Instructors with the rank of structure in the Militia. structor's certificate will not, however, be considered sufficient qualification for according Militia Rank.

A lieu'tenant in the corps of School Cadet Insructors, after having for three years successfully instructed a cadet corps, may be permitted to att. to attend a Military School of Instruction in order to qualify for the rank of captain, and to receive the same pay and allowances as qualified in fied lieutenants of the Militia for similar attendance.

A lieutenant in the Corps of School Cadet Instructors may be promoted to the rank of Captain, after having been a Lieutenant in the Captain, after having been a Lieutenant in the Corps for five years, and having for successive years, satisfactorily instructions for five years, and having for successive years, satisfactorily instructed a cadet corps, provided he has passed the qualifying course required a cadet corps, provided he has passed the qualifying course required a cadet corps, provided ne nas passed the qualified at the Corp promotion to Captain in the Active Militia and qualified at the Canadian School of Musketry."

# Uniform for Corps of School Cadet Instructors.

Jacket Reefer or double breasted pattern of blue black cloth or serge, or ordinary civilian sack coat length; fastened in front by two rows of four buttons each, of Canadian Militia pattern.

Sleeves to be plain, with two small buttons of Canadian Militia pattern at bottom of back seam. Shoulder straps, blue cloth, with gilt metal rank badges.

Trousers-Of serge to match color of jacket; no stripe at seams

Cap—Forage, N. P.

Uniform and equipment to be provided by the officers of the corps, as is done by other officers. (H. Q. 1798-3-2.)

### Allowances to Cadet Instructors.

For the training of a Cadet Corps during the school year, subject to the certificate of a military Inspecting Officer that the Cadet Corps has been well instructed in the course of military training laid down for it, allowances may be paid to qualified Cadet Corps Instructors as follows:—

(a) To a school teacher possessing a cadet instructor's certificate, or its equivalent, as may be determined by Militia Headquarters, who is a lieutenant in the Corps of School Cadet Instructors or a member of some other corps of the Active Militia and who instructs a corps affiliated with his school:—

\$1.00 per cadet up to a maximum of 50

.75 per cadet over 50 and up to 100

.50 per cadet over 100.

- (b) The instructional allowance calculated as in (a) less 10% will be paid to a school teacher not possessing a cadet instructor's certificate, or its equivalent, for instructing a Cadet Corps affiliated with his own school, if he is eligible for the appointment of cadet instructor on account of being an officer in the Active Militia or on the retired list, having at least a lieutenant's certificate; or a warrant officer or non-commissioned officer of the Active Militia possessing a sergeant's certificate from a Royal School of Military Instruction; or an exmember of the Permanent Force, or of the Imperial Army, possessing an honorable discharge certificate and having been a non-commissioned officer, or having qualified for the rank of Corporal.
- (c) For instructing a Cadet Corps affiliated with a school other than his own, a school teacher qualified as in (a), will receive the instructional allowance less 10%, and a school teacher qualified as in (b) the allowance less 20%.
- (d) Where no school teacher qualified as in (a) or (b) is available to instruct a Cadet Corps affliated with an educational institution, any other instructor will receive, if qualified as in (a), the instructional allowance less 20%, if qualified as in (b) the allowances less 25%.
- (e) For instructing a Cadet Corps not affiliated with an educational institution, a school teacher qualified as in (a) will receive the instructional allowance less 20%; a school teacher qualified as in (b), the allowance less 25%. An instructor not a school teacher, if qualified as in (a) will receive the instructional allowance less 25%; if qualified as in (b), the allowance less 30%.
- (f) A captain in the corps of School Cadet Instructors the receive the allowance he would be entitled to as a lieutenant in plus an increase of 50%.

- (g) The above allowances will be based on the enrolled strength of the corps, less absentees at the annual inspection for whom leave of absence has not been given or on whose behalf explanations satisfactors. factory to the Inspecting Officer are not given at the time by the C. O. of the Cadet Corps concerned.
- In the event of an Inspecting Officer being unable to certify that the corps has been "well instructed in the course of military training later than the corps has been "well instructed in the course for the ining laid down for it" he may recommend a special allowance for the instructor where it is evident that good work has been done, and local circumstances prevented the instruction being a complete success. In estimating this amount the Inspecting Officer should consider the number of codets partially trained. number of drills performed and the number of cadets partially trained. This special allowance should not, in any case, exceed one-half the authorized allowance the instructor might have been entitled to under the above regulations.

## School of Musketry, Ottawa.

Courses in Musketry (including Maxim Gun), open to Cadet Instructors and School Teachers, will be given at the Canadian School Must seem to the Canadian School Teachers, will be given at the Canadian School Teachers and School Teachers, will be given at the Canadian School Teachers at the Canadian School Teache of Musketry, Ottawa, for a period of six weeks, commencing 10th

School teachers who apply for permission to attend these courses must have attended a School of Military Instruction and obtained an Instructor's Certificate.

Applications to attend these courses should be made to the Superintendent of Education not later than the 1st of August. The name of the D. of Education not later than the 1st of free transportation of the Railway Station from which a requisition for free transportation will be required should be stated.

Those authorized to take the courses will be promptly notified, and a transport warrant to cover Railway journey will be forwarded.

The actual expenses, such as cab fare, meals, etc., incurred in travelling to and from Ottawa, will be refunded by the Government to those who obtain a qualifying certificate.

## Sub-Target Gun Machines.

- (1) It is the desire of the Militia Department to place subtarget gun machines in those educational institutions which may have a teacher qualified as a military instructor.
- machine is 61 1-2 feet from the centre of the base of the target, plus or 10 feet for the recruits and instructor.

In many cases this accommodation is not available and it is sug-Rested that these machines might be usefully employed in smaller

- (a) placing the target at the prescribed distance outside the building and aiming thru 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.
- (3) Forms for application for these machines may be obtained from the Organizer and Inspector, Carlet Corps, Halifax, N. S.
- (4) When sub-target gun machines are out of working order, and the instructor is not able to make the repairs, a report to this effect should be made to the Senior Ordnance Officer, Halifax, N.S., so that an expert may be sent to place the machine in working order.

MEMO. ON CADET CORPS TRAINING, BY THE MINISTER OF MILITIA.

Ottawa, January 20, 1912.

Desiring to enlist the heartfelt sympathy and co-operation of every the and noble-minded citizen in the work of upbuilding the youth of Canada, I have the honor, respectfully to submit the following for your consideration and, let hope, your loyal support.

Instinct directs even the lowest creature to protect, to train, and to defend its young. Every worthy citizen now recognizes it to be not only the right, the duty of the manhood of the nation to be so developed that the defence of mother, sister, wife, daughter, sweetheart, home and country is fully assured.

To govern and control humanity, negatively, or by restraint, requires a vast army of policemen, constables, magistrates, judges, jurymen and lawyers, expensive jails, prisons, court houses and penitentiaries costing in the aggregate many times more than do all the Canadian Militia with Drill Halls, Armories, Fortifications and warlike material included.

Schools, churches and other philanthropic influences in general, operating positively, have accomplished much more for the upbuilding of noble manhood and wonsanhood than have the negative influences. The latter depress; the former uplift the manhood of the nation.

Educationists and others observing human development, further recognize that children trained in drill and calisthenics are improved, physically, mentally, and morally.

They learn the valuable lesson of prompt and rational obedience.

The drill and discipline give them improved bearing, carriage, culture and self-control.

The training fits them, in case of need, to defend their loved ones, their homes, their country; and not to run away leaving those near and dear to the tender mercy of ruthless invaders. Mere willingness to defend one's home and country is, itself, a weakness. Loyalty untrained is mere lip service. To be effective willing' youth must become the 'trained, willing man.'

And the lad under such training has not been found to be so easily led astray as are those not so disciplined. The criminal ranks are little recruited from the boys so instructed.

Therefore, for the physical, mental and moral upbuilding of noble boyhood and consequent noble manhood; for the more economic and efficient training of the youth

to defend loved ones, homes and country; in brief, for the production of the highest types of citizenship it is essential to have physical and military training placed within the reactions of the highest the reaction of the highest the reaction of the highest types of citizenship it is essential to have physical and military training placed within the reaction of the highest types of citizenship it is essential to have physical and military training placed within the reaction of the highest types of citizenship it is essential to have physical and military training placed within the reaction of the highest types of citizenship it is essential to have physical and military training placed within the reaction of the highest types of citizenship it is essential to have physical and military training placed within the reaction of the highest types of citizenship it is essential to have physical and military training placed within the reaction of the highest types of citizenship it is essential to have physical and military training placed within the reaction of the highest types of citizenship it is essential to have physical and military training placed within the reaction of the highest types of citizenship in the reaction of the highest types of citizenship in the reaction of the highest types of citizenship in the reaction of the highest types of citizenship in the reaction of the highest types of the highest type the reach of every lad in Canada. This year it is intended to make a beginning by training forty thousand Cadets.

What is learned as a boy is never forgotten as a man. The so-called military training in annual camps as a rule, has been of grown men. Everything good there be known to the boy of twelve years. What is not good should never

The plan of organization embraces the obtaining thru School Inspectors, and from every section in Canada of the number of boys, from say twelve years to sixteen veery section in Canada of the number of boys, from say twelve years to sixteen veery section in Canada of the number of boys, from say twelve years to sixteen veery section in Canada of the number of boys, from say twelve years to sixteen veery section in Canada of the number of boys, from say twelve years to sixteen veery section in Canada of the number of boys, from say twelve years to sixteen veery section in Canada of the number of boys, from say twelve years to sixteen veery section in Canada of the number of boys, from say twelve years to sixteen veery section in Canada of the number of boys, from say twelve years to sixteen veery section in Canada of the number of boys, from say twelve years to sixteen veery section in Canada of the number of boys, from say twelve years to sixteen veery section in Canada of the number of boys, from say twelve years to sixteen veery section in Canada of the number of boys, from say twelve years to sixteen veery section in Canada of the number of boys, from say twelve years to sixteen veery years. teen years, whether attending school or not, who would desire to attend the camp and be trained for one week, during the latter part of July or early in August. Estimates will then be made of the number to be called from each locality. These formed into squads or sections by schools; the schools of a township or simular unit will constitute a company. The Companies from each county will make a regiment or a brigade, each under the name of its home county, town or township, and school section

in the home county, unless in special cases. The Cadets will be transported, camped, and in part uniformed. They will not be paid.

Male school teachers will be welcomed in the camp and will be given the same <sup>Male</sup> school teachers will be welcomed in the camp and will be selected in the camp and will be selected as the cadets. Their active co-operation is greatly desired.

Officers and non-commissioned of the Militia will also be welcomed under the above terms.

It is especially urged that the clergymen or officers of the several religious organizations take an interest in the work. As a beginning one from each such and come take an interest in a regiment is invited to join in the movement come take the codes under similar conditions as the teachers. and come to camp with the Cadets, under similar conditions as the teachers.

The co-operation of the physical and military leaders of the Y. M. C. A. is welcomed and will be utilized to the fullest extent.

excellent leaders in games, sports, songs, tattoos, and other upbuilding enter-tainment. Their influence on the conduct and character of the lads is regarded In well regulated camps school teachers and clergymen have always been found

The sale or use of liquor and tobacco in any form in Cadet camps, will not be the ages of twelve and sixteen years, can be found inclined to the use of such things.

The sale or use of liquor and tobacco in any form in Cadet camps, will not be the ages of Canada, between Even in the cadinal sixteen years, can be found inclined to the use of such things. Even in the ordinary military camps, which will be held as usual at different periods the Continuous of such commodities is rapidly disappearing. Such from the ordinary military camps, which will be held as usual at different periods the Cadet camps the use of such commodities is rapidly disappearing. Such never appear in a Cadet Camp.

Drill books will be issued to the Cadets, before camp, so that each may study the various movements and become instructors. Each is expected to perform the fructions, of giving instructions, as well as of being drilled, of receiving

drill It is hoped that in a very few years, every lad in Canada may be proficient in and calisthenics, and be a perfect rifle shot.

To this end Cadet rifles and ammunition will be furnished for each camp.

Oace every man understands the use of arms and all work in concert, all danger of tence of professional soldiers disappears, while the democratic mother, homes and country is assured.

The Officers in each Division and District will furnish all necessary data to those inquiring.

It is confidently hoped that there will be a spirit of honest emulation, of friendly rivalry found in every camp. It is also specially requested that parents and friends in general may seek to make their boys contented and happy by visiting the camps and giving them any comforts available.

In conclusion please permit me to specially request and urge your cordial co-operation and active assistance in this vast and important movement.

SAM: HUGHES.

## TWO CLASSES OF TRAINING IN CANADA.

## THE POSITIVE VERSUS THE NEGATIVE TRAINING. THE UPBUILDING VERSUS THE DEMORALIZING.

Notes on the Relative cost of Criminal Statistics, and Liquors and Tobaccos, on the one hand, compared with the cost of the Militia Force for Canada, on the other; including a statement showing the Military expenditure of the principal countries of the world.

In the upbuilding or positive, among other causes, may be classed Churches, and the Militia, including Permanent Corps, Active Militia, Cadets, Boy Scouts, and Rifle Associations.

In the demoralizing or negative causes, among other things, may be classed the intemperate use of liquors and tobaccos.

#### Canada's Negative Training is made up as follows.

Year 1909.	Male.	Female.	Total.
Indictable convictions	10,098 72,764	1, 356 5, 739	11, 449 78, 508 89, 952
Totals	82, 857	7, 095	89, 50-
These were disposed of as follows:—  Sentenced to penitentiary  Sentenced to gaol or fine  Sentenced to reformatory  Sentenced to death	• • • • • • • • • • • • • • • • • • • •	73, 330 300 18	.06
Sentenced to other convictions		15, 178	899, <sup>95</sup>
Penitentiaries:  Beginning of year 1909 there were  Added during year	1, 470	6 prisoners. 1 prisoners.	$2, \frac{370}{605}$
Released		- 	1,765
In at end of year			1, 700
The cost of this Negative Army has been shown	as follows:-		.4.
Police of Canada are more numerous than Can	ada's Militai	y Permanei	at corps.
The General Administration of Justice in Cana	da cost in 1	909:	
Dominion government Provincial government Municipal government	3.10	00,000 00,000 00,000 \$8,	200, <sup>000</sup>
•			

Average	1 17	b	1
Militia and Defence	1 15	per head	ı. d for 1912-13
Police, etc., in cities, additional Buildings annually	\$3,0 1,0	00,000 00,000	
Average			\$12, 200, 000
Lawyers' and witness' fees, prisoners' fines, etc	1 10	рег пеас	
Total cost of Justice	• • • • •	• • • • •	20,000,000
QVera			\$32, 200, 000 i.
Militia and Defence			
r	stace,	DIOKEN	nearts and
It has been further estimated that the cost of production better comprehended by the following:—  In 1909—	lucing	these	costs yearly
Custom			
Customs duty on tobacco	.,	5, 640 4, 337	
tobacco duty	-		\$8, 279, 977
Militia and Defence	. 18 p		for 1912-18
Customs duty on liquors  Excise duty on liquors	\$6, 73	7, 460	
Total liquor duty	9, 49	<del></del>	10 000 000
	31 pr		16, 288, 206
	15 pc	r head	for 1912-18
duty, tobacco and liquors		₫:	24 513 189
Average\$3	50 pe	er head.	
The above is merely for duty alone.			
steater. wholesale cost is much more; while the retail sale i	price i	s very 1	nany times
data by the Women's Christian Temperance Union, the fo	esearci ollowin	h as we	ell as from
Total			
Total net cost of liquors consumed in Canada, 1909 Total net cost of tobaccos consumed in Canada, 1909 Total liquors and tobaccos		\$73, 5 21, 6	15, 757 00 87, <b>50</b> 0 00
			03, 257 00
Militia and Defence. \$13	60 p	er head.	
Administration of Justice	•	\$32, 2	00.000.00
		\$127, 4	13, 257 00
Average \$18 Militia and Defence 1	20 pe 15 per	er head. head fo	or 1912-18
	•		

Summary-	
In 1909 in Canada the cost of liquors, tobaccos, and Justice amounted to	\$127, 413, 257 00 18 20
The whole Permanent Corps, Active Militia, Instructors, teachers of Drill and Physical Culture, Cadets and Boy Scouts, including Drill Halls, Armories, Rifles, Cannon, Fortifications, Saddlery, etc., will amount to, approximately, for 1912-13  Or, per head	8, 312, 8 <sup>50</sup> 00 1 15
Militia and Detence, 1912-18	\$13 60 per head. 1 15 per head.
Liquors alone, 1909	\$10 50 per head. 1 15 per head.
Tobacco alone, 1909	\$3 10 per head. 1 15 per head.
Duty on Liquors and Tobaccos alone-	
1909	\$3 50 per head. 1 15 per head.
Duty on tobaccos alone, 1909	\$1 18 per head. 1 15 per head.
Duty on liquors alone, 1909	\$2 31 per head. 1 15 per head.
Canada's Positive Militia Training includes Permanent Cortia; Civilian Rifle Associations; Cadets and Boy Scouts, besid Officers' University Corps.	
Number in 1911:—Permanent Corps	3,019 tablish- 60,181
ment	ts 26,609
Besides, Schools not regularly enrolled or inspected as Cad Add— Cadets to be drilled in 1912	lets 40,000
Total	169, 809

#### The cost includes-

Building and repairs of Drill Sheds and Armories.
Annual Drill—Active Militia.
Cadet Corps—Instructors.
Clothing, etc.
Contingencies.
Customs Dues.
Library.
Dominion Arsenal.
Engineer Services.
Rifle Associations.
Regimental Bands.
Headquarters, Divisional and District Staffs.
Maintenance of Military Properties.
Military Buildings and works.
Ordnance Lands, Arms and Equipment.
Permanent Force.

Printing, Stationery.
Royal Military College.
Wages.
Schools of Instruction.
Survey.
Transportation and Freight.
Warlike Stores.
Pensions.
Duty.
Monuments to Battlefields.
Stores generally.
Teachers.
Rifle Ranges.

Many of these costs were formerly charged to Public Works. Others are propto Consolidated Revenue.

National Education—the making of Good Citizens belongs not alone to Provinces.

The above Militia and Defence Services cost Canada per head:-

In 1909-10. In 1910-11.	<b>\$0.88</b>
40 1911 10	u. 33
In 1912-13	1.04 estimated.

But-

This Army:-

Upbuilds Manhood.

Defends Homes and loved ones.

Physical Training Training School Teachers, Schools of Military Instruction and at times for Police.

Upbuilds youth,—mentally.
morally.
physically.

ciple; Preserves spirit of obedience, discipline, patriotism, veneration and love for prinbreeze, and trains the boy to be an asset of the nation.

places for instruction; for Cadet and Boy Scout drill; for public, patriotic, commercial and business meetings.

Country.	Army.	Navy.	Total	Popula- tion.	Capita.	
	\$	\$	\$	\$		
Great Britain-1910-11	182,544,324	174,780,090	307,324,414	45,469,564	Army 2 9 Navy 3 8	
France—1910-11	169,894,917	78,162,102	243,057,019	39,376,000	Army 4 8 Navy 1 8	
Germany—1910-11	196,791,976	107,669,929	304,461,905	64,903,423	Army 3 08 Navy 1 66 4 68	
Italy-1910-11	60,604,451	33,931,324	96,535,775	34,565,198	Army 1 75 Navy 1 04 2 79	
United States-1910-11 Pensions	155,911,705	123,173,716	279,085,421 156,000,000	91,972,266	Army 1 69 Navy 1 34 Pens'ns 1 69 4 72	
Australia—1910-11			*13,214,300	4,374,138	3 03	
New Zealand-1910-11.		• • • • • • • • • • • • • • • • • • • •	†2,434,250	888,578	2 74	
Canada—1912-13	8,312,850	3,091,500	11,404,350	7,204,527	Militia 1 16 Navy 1 58	

<sup>\*</sup>Estimates for Defence 1910-11 (Commencement of new scheme of Defence, 1911).

<sup>†</sup>Defence 1910. Includes \$200,000, payment to British Admiralty.

## CANDIDATES WHO OBTAINED GRADE "B" PHYSICAL TRAINING CERTIFICATES, AND THE OFFICIAL NUMBER OF EACH CERTIFICATE.

# At Convent of the Sacred Heart, Halifax, N. S., 25th November, 1911

5015 Mary Talbot O'Loane.

5016 Mary Talbot O Loane. 5016 Mary Angelita McDermott. 5017 Mary Blanche Wallace. 5018 Mary Scanlan.

5019 Josephine Naud.

## At Mount St. Vincent, 13th December, 1911.

5021 Margaret M. Gillis. 5100 Margaret Crispo.

5101 Ella Fay.

5102 Marie Untersee.

5103 Carrie Baldwin.

5104 Mary Cass. 5105 Lettie Devereaux. 5106 Sarah McIsaac. 5107 Mary Driscoll. 5108 Anna Sullivan.

5109 Catherine McGonagle.

5110 Irene Kelly.

5110—Irene Keny.
5111—Mary Lyons.
5112—Marie McGilvary.
5113—Susie N. Cox.
5114—Annie Susan Macnamara.
5116—Ethel Morris.
5116—Catherine Brown.

5116—Ethel Morris.
5116—Catherine Brown.
5117—Frances Corbin.
5119—Marie Josephine Kelly.
5120—Mary Theresa Baker.
5121—Appes Camilla Kelley. 5121 Agnes Camilla Kelley.

5121 Mary Theres.
5122 Agnes Camilla Kelley.
5122 Katherine Mulcahy.
5123 Mary Anne Murphy.
5124 Hannah Kickham.
5125 Marian Cecilia Daly.
5127 Helen Dorsey.
5129 Julia Imelda Murphy.
5130 Margaret Josephine Hagerty.
5131 Mary Emma Melansor.
5132 Florence Hanlon.
5133 Grace Elizabeth Brett.

5183 Grace Elizabeth Brett. 5184 Agnes Hildegarde Kelly.

6136 Agnes Hildegarde 5136 Catherine M. Farrell.

5136 Marie Walton. 5137 Marie White. Regina Sandelman. 5139—Dorritt Whitehorne. 5140—Mary Crosby.

5141-Lillian Flanagan.

5141—Linian Flanagan. 5142—Greta Ogle. 5143—Kathleen O'Leary. 5144—Mary Kellaher. 5145—Grace Mahoney. 5146—Frances Mahan. 5147—Kathleen Ashe. 5148—Florence Kiervin.

5149 - Grace Balcom. 5150-Doris McGrath.

5151—Agnes Foley. 5152—Carmen Rafecas.

#### At Truro, January 25th, 1912.

5153-Mary Florence Macdonald.

5154-Catherine Mary Thibadeau.

5155—Mary May Melanson. 5156—Annie Margaret McLachlan. 5157—Clara Elizabeth Avery. 5158—William John Cameron.

5159-Mary Ann Roach.

5160—Marguerite Ann Pottier. 5161—Phoebe Myrtle McLellan. 5162—Annie Elizabeth Reid. 5163—Mamie Currie. 5164—Pauline Mary Saulnier. 5165—Mabel Ann Poirier.

5166—Irene Honora Boutin. 5167—Celestine Mary Amirault. 5168—Michael LeFort.

5169—Bertha Louise Moore.

5170-Mrs. Lizzie Landers Messinger.

5171—Lila Bernice Illsley. 5172-Loretta Macpherson.

5173-Laura Ellen Smith.

5174-Eva Isabelle Smith.

5175—Annie Olive Isenor. 5176—Etta Marie Brownell. 5177—Cora Viola James. 5178—Winnie Laura Snow.

5179—Annie May Redmond. 5180—Olive Aymar Rice. 5181—Annie MacVicar. 5182—Robert John MacInnis.

#### At Fredericton, N. B., 29th January, 1912.

5296—Thyrza Hazel Dysart.

#### PATRIOTIC PROGRAMS.

For October, November, December, 1911, January, February, March, April and May, 1912.

Issued by the Imperial Order Daughters of the Empire, with the Approval of the Minister of Education of Ontario for use in Schools on the last Friday of each month.

#### EMPIRE BUILDERS—(Continued).

#### OCTOBER.

#### EDWARD VII.

"Circled by steel and fire,
Guarded by sword and lance
From frenzy and vengeance dire,
The kings of the earth advance.
But haply their fears might cease
If they looked on his pall above,
Who walked on his way in peace,
Secure in the whole world's love."

- 1. Why is the Sovereign the one universally uniting element of the British Empire?
- 2. Tell how King Edward's wonderful powers of conciliation and his friendly personal relations with all the rulers of Europe secured to him the title of Edward the Peace-Maker.
- 3. Tell how His late Majesty's activity in promoting charities, art, science, national sport and public enterprise has been a stimulus to the social advancement of the world.

#### READINGS.

"Life of King	Edward VII."	-			-	-	Hopkins.
"Public Life of	Prince and Prince	ess of V	Wales."	_	-	-	Rutledge.

#### NOVEMBER.

## RT. HON. SIR JOHN A. MACDONALD.

Sing me the song of her fertile prairies,
League upon league of her golden grain;
Comfort housed in the smiling homestead—
Plenty throned on the lumbering wain."

- 1. Describe Sir John A. Macdonald's work as one of the chief fathers of Confederation. Name at least three others.
- 2. What great railway was built when he was Premier, and how did it help the natural development and unity of Canada?
- 3. Explain the significance in Canadian affairs of the statement by Sir John in 1891: "A British subject I was born, a British subject I will die."

#### READINGS.

"Life	of S	Sir	John	Macdonald"	-		-	•	Pope.	
"The	C+~		of +1	ho Domini!				H	opki <b>ne</b>	

#### DECEMBER.

#### THE EARL OF BEACONSFIELD.

"When our Imperial legend shall have fired The lip of sage and poet, and when these Shall to an undispersing audience, sound No sceptred name so winningly august As thine, my Queen Victoria the Beloved."

- in British politics? Benjamin Disraeli, Earl of Beaconsfield, considered a great leader
- 2. What was the effect in India of Queen Victoria assuming the title of Empress of India during his Premiership?
- bringing peace and honor to England, and how he secured the Suez Canal for Great

#### READINGS.

"Life of Lord Beaconsfield" The Earl of Beaconsfield"	-	-	-	_	-	_	- Kebbel.
Lari of Beaconsheld" -		-	-	-	-	•	Monypenny.

#### JANUARY.

#### THE EARL OF CROMER.

"The onward foot of Knowledge, slow, sublime,
Has traversed her and set her children free,
And peaceful commerce heals the wounds of Time,
And the long history of blood and pain
Comes nevermore again."

- British occupation of that region, and what assistance did the British troops receive from the Canadian voyageurs in 1884?
- tesources and the well-being of her people under British rule.
  - 8. Why is Lord Cromer known as the "Father of Modern Egypt"?

"Lord C.		R	EAD	INGS	S.					
"Modern Egypt"	-	-	-	•		-	-	-	•	Gorst
Egypt" -	-	-	-	-	_	_	_	-	-	-Cromer

#### **FEBRUARY**

#### LORD STRATHCONA AND MOUNT ROYAL

"For the strong young North hath sent us forth to battlefields far away, And the trail that ends where Empire trends is the trail we ride to-day. But proudly toss the head aloft, nor think of the foe to-morrow, For he who bars Strathcona's Horse drinks deep of the cup of sorrow."

- 1. Give a brief sketch of Lord Strathcona's early years in Canada.
- and the Canadian Pacific Railway.
  - 8. Give reasons why he should be called "Canada's leading philanthropist."

Canad:	READ	INGS	5					
"Life and Work of Sir John Thor		-	-	-	-	-	-	-Millar
work of Sir John Thor	npson''	-	-	-	-	-	-	Hopkins

#### MARCH

#### RT. HON. RICHARD JOHN SEDDON

"The wandering mariner, whose eye explores The wealthiest isles, the most enchanting shores, Views not a realm so beautiful and fair Nor breathes the spirit of a purer air.

- 1. Compare the climates and the seasons of Australia and New Zealand with those of Canada.
  - 2. Give a little sketch of Mr. Seddon's career from digger's hut to Privy Council.
  - 3. How did he work for the consolidation of the British Empire?

"Britain Overseas"	READINGS									-44
"The Empire and the	Cent	ury"	-	-	-	-		-		 Parrott Goldman

#### APRIL

#### RT. HON. LOUIS BOTHA

"The summons has come with roll of drum and bugles ringing shrill, Startling the prairie antelope and the grizzly of the hill; 'Tis the voice of the Empire calling and the children gather fast From every land where the cross-bar floats out from the quivering mast."

- 1. Our kith and kin fought and died in South Africa. Should not the reconstruction of this country appeal to Canadians?
- 2. Tell of the part Botha took in the South African war, and how he afterwards proclaimed the whole-hearted adhesion of the Transvaal to the British Empire.
- 3. How has he worked under British rule for peace and unity regardless of racial differences?

"The	T			REAL	DINC	SS					ick
"Our	Transvaal from Empire Story"	within"		-		-	-	-	•	-	Fitzpatrick Marshall
Oui	Empire Story	-	-	-	-	-	-	-	_	-	Marsin

#### MAY

### ADMIRAL LORD CHARLES BERESFORD

"Yo ho; then give me a right good craft and crew And I'll contented be; For there's no tack in the whole wide world Like a life on the rolling sea,"

- 1. Tell briefly how the discipline, skill and courage of the Royal Navy protect the trade and the communications of the widely extended British Empire.
- 2. Give a brief account of how Lord Charles Beresford rose from a cadetship to the supreme command of the greatest naval force that ever sailed the seas.
- 3. Tell of the part that H. M. S. Condor played under the command of Lord Charles Beresford at the bombardment of Alexandria

	R	EAI	N	GS						
"The Romance of the Mighty	Deen''									Gibbora
"Brassey's Naval Annual"	- оср	•		-	•	-	-	•	-	-Brassey
- The state of the		-	-	-		_			_	-D

Prepared by Miss Nanno C. Hughes,

Hon.-Sec'y. Education Committee.
I O. D. E.

(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 pupils in observing the times of the regular procession of natural phenomena each season. First, it may help the teacher in doing some of the "Nature" lesson work of the Course of Study. Secondly, it may aid in procuring valuable information for the locality and province. Two sopies are 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 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, flowering and fruiting of plants and trees; the first appearance in the locality of birds migrating north in spring or south in autumn, etc. While the objects specified here are vince, it is very desirable that other local phenomena of a similar kind be recorded. Every locality has a flora, fauna, climate, etc., more or less distinctly its own; and the more common trees, shrubs, plants, crops, etc., are those which will be most valuable from a local point of view in a present the absent extensions of a series of seasons

local 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 contings 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 travel, fill an idle and wearisome hour with interest, and be one of the most valuable forms of educational discipline. The eyes of a whole school daily passing over a school section will 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 most undoubted evidence, such as the bringing of the specimens to the school when possible or 
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 out of season due to very local conditions not common to at least a small field, not be recorded except parenthetically. The date to be recorded for the purkind following immediately after it. For instance, a butterfly emerging from its chryslin in a sheltered cranny by a southern window in January would not be an indication of the general climate, but of the peculiarly heated nook in which the chryslis was when these sports out of season occur, they might also be recorded, but within a parbearance.

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

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 hame of the schedule on the next page; for if either the date or the locality or the cannot be bound up for preservation in the volume of The Phenological Observations.

May for instance, can be readily and accurately converted into the annual date, "the last day of the year," by adding the day of the month given to the annual date of the date can be briefly recorded, and it is the only kind of dating which can be conveniently can make the conversion without error, the day of the year instead of the day of the month (April in this case), thus: 24+120=144. The annual averaged in phenological studies. When the compiler is quite certain that he or she 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. (1911 Schedule.)

Province	-	June 19
[The estimated length and breadth of the locality within whice vations were made	name th	rom the see feet.
NAME AND ADDRESS OF THE TEACHER OR OTHER COMPILER OF THE OBSERVATIONS RESPONSIBLE FOR THEIR ACCURACY	When First Seen	When Becoming Common
(WILD PLANTS, ETC.—Nomenclature as in "Spotton" or "Gray's Manual").		
1. Alder (Alnus incana), catkins shedding pollen 2. Aspen (Populus tremuloides), 3. Mayflower (Epigæa repens), flowering. 4. Field Horsetail (Equisetum arvense), shedding spores. 5. Blood-root (Sanguinaria Canadensis), flowering. 6. White Violet (Viola blanda), flowering. 7. Blue Violet (Viola palmata, cucullata), flowering.		
8. Hepatica (H. triloba, etc.), flowering.  9. Red Maple (Acer rubrum), flower shedding pollen  10. Strawberry (Fragaria Virginiana), flowering  11. " " fruit ripe.  12. Dandelion (Taraxacum officinale), flowering  13. Adder's Tongue Lily (Erythronium Am.), flowering  14. Gold Thread (Coptis trifolia), flowering  15. Spring Beauty (Claytonia Caroliniana), flowering  16. Ground Lyy (Nepeta Glechome), flowering		
Indian Pear (Amelanchier Canadensis), flowering.  18.  """ fruit ripe		
fruit ripe  Tall Buttercup (Ranunculus acris), flowering.  Creeping Buttercup (R, repens) flowering.  Painted Trillium (T. erythrocarpum), flowering  Rhodora (Rhododendron Rhodora), flowering.  Pigeon Berry (Cornus Canadensis) florets opening		

PHENOLOGICAL OBSERVATIONS—(Continu	red).	
Day of year corresponding to the last day of each month.	1	<u> </u>
31 April 120 July 212 Oct. 304	100	<u> </u>
Feb. 59 May 151 Aug. 243 Nov. 334	14,8	8 8
March 90 June 181 Sept. 273 Dec. 365	50	සුව
or LEAP years increase each number except that for January by 1]	When First Seen	When Becoming Common
Pigeon Berry (Cornus Canadensis), fruit ripe.		
Star Flower (Trientalis Americana), flowering		
Clintonia (Clintonia borealis), flowering  Marsh Calla (Calla polyatria)		
Marsh Calla (Calla palustris), flowering  Lady's Slipper (Cympicadium	1	
Lady's Slipper (Cypripedium acaule), flowering.  Blue-eved Green (Cymripedium acaule), flowering.		
Blue-eyed Grass (Sisyrinchium ang.), flowering  Twinflower (Linnæa borealis),	1	
Pale Laurel (Kalmia planes) (4	} }	
Pale Laurel (Kalmia glauca), flowering.  Lambkill (Kalmia angustifelia)	i !	
	]	
		• 1
	1	
		•
(Itubus strigosus), nowering		
Yellow Rattle (Rhinanthus Crista-galli), flowering High Blackbarry (Pubus villens)		
- Table of the state of the sta		
Pitcher Plant (Sarracenia purpurea), flowering Heal-All (Barracenia purpurea)		
Heal-All (Brunella vulgaris),		
Wild Rose (Rose luside)		
"" Ullifolion (Leontadon entumbelo) "	1	
Butter-and-Eggs (Linaria vulgaris),		
patiding leaves in spring made trees appear green-(a) first		•
tree, (b) leafing trees generally.		ş.
Red c (CULTIVATED PLANTS, ETC.)		· ·
**CII I \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Currant (Ribes rubrum), flowering	ï	
Black Currant (Ribes nigrum), flowering		
" foreit oin		
Chammer on	[	
(Prunus Cerasus), flowering		
Plum (Prunus domestica), flowering  Apple (Pyrus Malus), flowering	. 1	
Apple (Promise of the state of		
illan (Smi	1	
Lilac (Syringa vulgaris), flowering White Clover (Trifolium repens), flowering	1	
White Clover (Trifolium repens), flowering.  Red Clover (Trifolium pratense).	1	
Red Clover (Trifolium repens), flowering.  Timothy (Di.		
	1	
Potato (Solanum tuberosum).	1	
(E. DVING OFFICE CO.)		
Plowing begun	}	
Flowing begun	1	
Planting of Potatoes begun	<b>)</b> .	
a Townoes begun	İ	

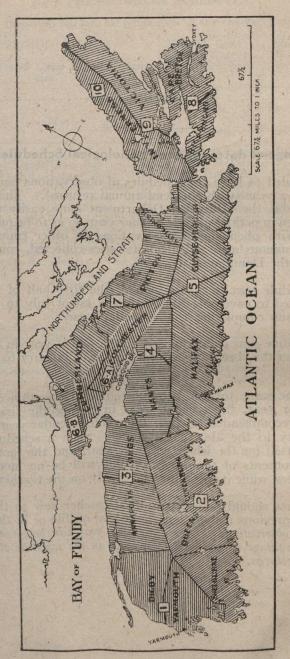
	PHENOLOGICAL OBSERVATIONS-(Continued	).	
69 70 71 72	Hay Cutting Grain Cutting.	1	
	(METEOROLOGICAL PHENOMENA.)		(6)
73- 74- 75- 76. 77- 78- 79- 80-	Last Snow (a) to whiten ground, (b) to fly in air.  Last Spring Frost (a) "hard" (b) "hoar"  Water in Streams, Rivers, &c., (a) highest, (b) lowest.  First Autumn Frosts, (a) "hoar" (b) "hard"  First Snow (a) to fly in air, (b) to whiten ground.  Closing of (a) Lakes without currents, (b) Rivers.	Anr.	May
• • •	June		
Ser	y		
[Fo	Day of year corresponding to the last day of each month.  Ian. 31. April 120. July 212. Oct. 304.  Feb 49. May 151. Aug. 243. Nov. 334.  March 90. June 181. Sept 273. Dec. 365.  PLEAP years increase each number except that for January by 1	Going North or coming in Spring.	Going South or leaving in Fall
81.	(MIGRATION OF BIRDS, ETC.) Wild Duck migrating	<del></del>	
82.	Wild Geese migrating	į	
83.	Song Sparrow (Melospiza fasciata)	`	
84.	American Robin (Turdus migratorius)	j	•
85.	Slate coloured Snow Bird (Junco hiemalia)		
86 87.	Spotted Sand Piper (Actitis macularia)		
88.	Meadow Lark (Sturnella magna)	1	•
89.	Kingfisher (Ceryle Alcyon) Yellow Crowned Warbler (Dendrœca coronata)	-	
90.	Dummer Yellow Bird (Dendroce section)	1	
91.			
92.			
93.		-	
94.			
95. 96.		1	
97.	American Redstart (Setophaga ruticilla)  Cedar Waxwing (Ampelis cedrorum)  Night Hawk (Chordeiles Virginia)		
8.	AVERT LIBER (CHOIDERS VIEWING NOIS)		
) <b>y</b> .	G	1	
	T PIUR OI Proks		
00.	Piping of Frogs Appearance of Snakes		

<sup>(</sup>OTHER OBSERVATIONS OR REMARKS.)

101 Senecto Jacobaea (St. James Ragwort); Is it found within the school section?

If so, to what extent? etc.

<sup>102.</sup> The Brown Tail Moth, etc.



THE TEN PHENOLOGICAL REGIONS OF NOVA SCOTIA.

#### NOTICE.

## Change of dates for the Phenological Schedules.

It is decided to have the schedules of observations henceforward sent in twice a year (with the semi-annual returns). This arrangement will enable the Education Department more easily to compile the information in periods of the Calendar year, so as to be more readily comparable with phenological observations in other countries, and with the voluminous meteorological statistics 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—thus completing the Calendar year.

The schedule sent in at the end of the school year in July is intended to cover the observations from the 1st of January to the end of June.

Where the same teacher is employed in the section during the whole calendar year, the schedule sent in during the first week of February, is recommended to cover the whole calendar year, from the 1st of January to the 31st of December. Such a schedule will be complete in itself for the whole calendar year, and the fact of 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 should be followed by a teacher new to the section, provided the previous teacher left the record on file or in the register. Whenever the observations for the Calendar year can be given complete, there is an advantage in giving it Complete in the schedule sent in with the February returns.

#### PHENOLOGICAL SCHEDULES.

[Received too late for publication in the October Journal.]

## REGION VIII. Mary A. Scott.... | Shenacadie ... | 55 Bridgie Watt ... | Beaver Cove... | 54 Mary Nicholson... | Barachois Har. | 34 Richmond and Cape Breton Coun-VIII. (b) Low Inland. VIII. (a) Coast. Jemima R Cameron Hillside . . . . | 61 Norman McDonald Front Lake . . . | 25 Norman McDonald Front Lake.... Margaret A Coady Round Island ... 141 Kath. MacMillan. Coxheath. 97 Barbara E Cameron Edwardsville. 81 Eliza'h Macdonald. Leitche's Creek. 161 N. E. Vouradonald. 181 N. E. Vou Sadie M MacKinnon Trout Brook . . 102 Sarah MacDonald.. French Road... Mary E McIntyre . Grand Mira . . . 44 Margaret E Gillis . Victoria Bridge. 87 Rose A Gillis . . . Grand Mira N. . 71 N. E. Young .... Florence... 26 Eliza M Leonard ... George's River . 74 Ella M. Munn ... Grove's Point ... 180 Mary T 4 ... Grove's Point ... 180 83 Mary T Arsenault Mill Creek 88 Katie E Phillips Brickyard 104 VIII. (c) High Inland. Katherine MacLean Big Lorraine... 33 Katherine MacLean Big Lorraine. D. J. Currie Ocean View. 77 Lottie M Morrison. Gabarus Bay 130 Ghristena Smith Brack's Brook. 84 Jennie McNeil Big Pond. 65 Mamie Currie E. Bay N. Side 93 Christie V MacLean Big Beach. 57 Mary A. Roach... McAdam's Lake 93

## SIMPLIFIED SPELLING.

In adopting the spelling "thru" instead of the medieval form "through" we have the concurrence of the most distinguished lexicographers of the English-speaking world, altho the word is not yet found in the old dictionaries which give only the present and past In addition to the leading language authorities of the English, Scotch and American Universities, like Sir J. H. Murray and Bradley of Oxford, Skeat of Cambridge, Sir Wm. Ramsay of London, Sir James Donaldson of St. Andrews, Michael Sadler of Leeds, Grandgent of Harvard, Brander Matthews of Columbia, Lounsbury of Yale, David Starr Jordan of Leland Stanford, Bright of Johns Hopkins, Andrew White of Cornell and Tucker of Melbourne, legal authorities like the Bisht Ham Circum Tucker of Melbourne, the authorities like the Right Hon. Sir Frederick Pollock, Baronet; the late Chief Justice Brewer of the United States, Sir Robert Stout of New Zealand, business men like Carnegie and Roosevelt—in addition to such men, a daily increasing host of literary, educational and business leaders are iness leaders are supporting the movement which the Journal of Education is pleased to aid in a manner causing the least inconvenience possible thus believed ience possible, thus helping to carry out the unanimous recommendation of the Imperial Official Education Conference of 1911, London, England.

The First Movement

in spelling reform in Nova Scotia was started in 1880 by Dr. David Allison, Ex-President of Mount Allison University, who was prin-Superintendent of Education for Nova Scotia, by inviting the cipal of the Picton Academy to write a scotia, by inviting the cipal of the Pictou Academy to write a paper on the subject for the Provincial Educational Association Provincial Educational Association which met in Truro. Dr. Allison also supplied the essentiat with 12th which met in Truro. also supplied the essayist with literature up to date on the subject.

The first paper to advocate the subject was the Dalhousie College the editorship of Vision Dalhousie College Gazette under the editorship of Victor Frazee, B. A., who had the advantage of being a Pitman phonographic description. advantage of being a Pitman phonographic writer, and who had the honor of graduating with a phonetic and who had cuch honor of graduating with a phonetic spelling which then had no such authority back of it as is now wielded by the Simplified Spelling Board and the Simplified Spelling Society

## Tennyson and Browning,

as well as the other poets, helped the movement along in many ways, even by using the preterite in "t" instant along in many thus even by using the preterite in "t" instead of "ed" in many words the pronounced. As Browning's Centenary is being celebrated on Flight 12th of May we quote an example from 1. 12th of May we quote an example from him literatim—"The Flight of the Duchess," Canto 15, lines 135 and 136:

"Tho' each part were never so weak Yet vainly thro' the world should ye seek."

The apostrophe is used in all such cases to explain to the reader the writer knows that "noh" is omitted. that the writer knows that "ugh" is omitted—only for that purpose and nothing more.

#### Thru.

The functionless "ugh" is already very generally elided from "though" and its compounds in the Nova Scotian press in accordance with the recommendations of the S. S. B. and the S. S. S.

The elision of "ugh" from "through" leaves it "thro," a simplification which many have favored. But it has at least three serious defects. First, it suggests a wrong pronunciation. Second, it throws out the original and characteristic vowel "u" which, from the original Anglo Saxon and all thru old and middle English, was the vowel used. Third, it adopts the "o" which was probably introduced by a crude and unknown spelling reformer after 1400, A.D. The Anglo Saxon regular form was "thurh." In the Canterbury Tales of Chaucer who died somewhat like the German form is "thurgh," probably pronounced "durch." If there was ever any good reason for the introduction of the "o" four or five hundred years ago, there is a better one now for throwing it out together with the now functionless "gh."

The "o" probably came in when the pure Latin words "honor," honour" and their class, were thru the influence of the Normans spelled "Thurgh" and "labour," so as to sound "honoor" and "laboor." "thourgh" and its metathetical form "thrugh," may then have become thourgh," and "through" with the medieval spelling reformer.

The form "thru" is, preferable to "throu," or "throo." (1) alone originally for 1500 years, and (3) the "u" sound after "r" is the practical phonetic equivalent of our "ou" or "oo."

As an example of the good, the very esthetic, appearance of this York Independent of the 15th February last, by Professor Archibald Passes."

"The Queen is young, and the queen is fair; Like meshes of Gold is her floating hair; Her cheek is a rose, her eye is blue— It pierceth a poor knave thru and thru."

## Program.

form Until the beginning of the nineteenth century program was the gram, universally used like anagram, diagram, monogram and tele-except. Then Frenchified writers commenced using the foreign form, and others. The popular, "one-man" dictionaries made to sell panform to the whim of society, so that the use of the better and English teached "Prog.," and threw its authority in favor of the original and English form "program."

Many of our newspapers, ladies' colleges, and writers who desire to follow approved English spelling still follow the English crowd instead of the English scholars. Some English newspapers are so attached to the orthography of the date of their founding, that they have now a spelling of their own—one of the many varieties of old English spelling. We still find some newspapers under the impression that it is English, using the French "programme," the American "enrollment," etc. This is one reason why we have to tolerate in our examination system certain spellings. While any spelling with good authority should be tolerated, all should encourage the adoption of the simpler authorized forms, everything else being equal.

## The Official Imperial Education Conference, London, 1911.

(From the N. S. Education Report for 1911.)

The subject on the Agenda paper suggested by Nova Scotia, was deemed to be one pre-eminently appropriate to an Imperial conference, and was under consideration from Friday to Monday, 1st May, when the Conference came to a resolution on the subject. The most distinguished educational officials in Great Britain and thruout the Empire took an active part in the discussion; and it was the English Board of Education itself which introduced a special linguistic authority to open up the subject—His Majesty's Inspector of Secondary Schools, Dr. E. R. Edwards. The official report of the Conference sums up the references to this subject in paragraphs 23 and 24, page 18, as follows:

- 23. The Conference also discussed the attitude of Departments of Education to the more important movements in favour of the simplification, improvement, and uniformity of English spelling, an item on the Agenda Paper suggested by the Nova Scotia Government. The subject was opened by a paper by Dr. E. B. Edwards, one of the Secondary School Inspectors of the Board of Education, on "English Spelling and Spelling Reform," and a paper by Dr. Mackay (Nova Scotia) on the question whether Education Departments should tolerate vireformed spelling. These papers, together with a résumé of a speech by Dr. 207-Joen (Union of South Africa) are printed in Part II of this Report (see pages 207-228).
- 24. At the conclusion of the discussion on the simplification of English spelling the Conference unanimously adopted the following resolutions:—
  - "(xi) That this Conference is of opinion that the simplification of spelling is a matter of urgent importance in all parts of the Empire, calling for such practical steps in every country as may appear most to the ultimate attainment of the end in view—the creation, in connection with the subject, of an enlightened public opinion and the of it to the maintenance, in its purity and simplicity among all English speaking peoples, of the common English tongue.
  - "(xii) That the foregoing resolution be appended, with an explanatory note, to the printed copies of the papers on the subject read to the ference on Friday last by Dr. E. R. Edwards, H. M. I., and Dr. Kay, and be included in the Report of the Conference."

Calendars of the Provincial Normal College of Nova Scotia were on the tables before the members of the Conference as a sample of the most extreme simplifications recommended at that date by the

plified Spelling Board which contains the great dictionary editors of Great Britain and America, and leading University language scholars thruout the Empire. More or less of these simplifications are being introduced gradually into publications thruout various portions of the English speaking world. This movement differs from the evolution hitherto affecting the spelling of English, only in its following the recommendations of the highest authorative body of experts on the subject in existence at present. The evolution is likely therefore to be more uniform in direction and therefore more rapid. The Education Department of Nova Scotia, and the Civil Service of Canada so far as Nova Scotia is concerned, will not sanction the penalization of candidates using these scholarly emendations of the old orthography in the government examinations.

### A New English Movement

has been started since the Conference. The Simplified Spelling Soclety whose President is Professor Gilbert Murray of Oxford, the leading classical magnate of England; whose vice-presidents include, Sir James A. H. Murray, Editor-in-Chief of the Great Oxford dictions of Abordoon: Printionary; Skeat of Cambridge; Rector Carnegie of Aberdeen; Principal E. Skeat of Cambridge; Rector Carnegie of Aberdeen; Principal E. Visa Chancellor cipal Donaldson of St. Andrews; Michael Sadler, Vice-Chancellor of Leeds, the highest general educational authority in England; Sir William Ramsay of the London University; the Right Honorable Sir E. Ambassador Bryce Sir Frederick Pollock, baronet, of high legal lore; Ambassador Bryce at Washing Pollock, baronet, of Johns Hopkins; on whose Executive at Washington; and Bright of Johns Hopkins; on whose Executive is Dr. Heath, Director of Special Inquiries and Reports of the English p. Heath, Director of Special Inquiries and Reports Rippmann, lish Board of Education; the forceful Professor Walter Rippmann, and the brilliant William Archer—this great English Society cannot wait on the brilliant William Archer—this great English is in wait on the slow process of gradual simplification. For English is in the man the slow process of gradual simplification. Williams in the meantime handicapped in the race for universality. Millions in Asia Acres of the slow process of gradual sumplineation.

Asia Acres of the slow process of gradual sumplineation.

Asia Acres of the slow process of gradual sumplineation.

Asia Acres of the slow process of gradual sumplineation.

Asia Acres of the slow process of gradual sumplineation. Asia, Africa, Europe and the Americas, and even in Canada, are prevented the Language. And vented by its irregular spelling from acquiring the language. even the loss of time and effort in the correct mastery of the language by Front loss of time and effort in the correct mastery and greater by English speaking children of the world is a grosser tax and greater in the catalogues of the injury than all the known obnoxious trusts in the catalogues of the nations combined.

be the best solution of the problem. But the new letters necessary typesetting machines would have to be scrapped.

It was decided therefore to make an approximately phonetic sounds had, therefore, to be made up of combinations of two letters, no other. So utterly irregular is our present system that while the words extremely strange, and tends to lengthen instead of shorten hour. Yet a foreigner can learn to read English thus spelled in an than they can now in a year. But it often looks intensely comical

at first sight for dignified English. It is claimed, however, that after reading one good substantial book, its orthography would grow to be as beautiful as Italian, and the old English spelling would be seen to be the scandal to English scholarship and economics which it really is. It is a "reformed" rather than a "Simplified Spelling," and will be capable of easy conversion into a pure phonetic system eventually. But it is too radical for us at the present stage.

## The English Board of Education

has already begun to act upon the unanimous recommendation of the Conference, by sending circular information to the Education departments of the Empire, with lists of texts on English language and phonetics, to enable those dealing with the problem to obtain the soundest scholarly information possible.

## The Simplified Spelling Board.

Head Office: No. 1, Madison Avenue, New York, U. S. A.

Simplified Spelling Bulletin: Issued quarterly, 5 cents a copy, 10 cents a year.

Editor: Henry Gallup Paine.

Communications may be addressed to the Secretary or the Editor at the Head Office.

## The Simplified Spelling Society.

Head Office: 44 Great Russell Street, London, W. C., England.

"The Pioneer of Simplified Spelling": Issued monthly except for two months of the year. Free to members. Annual subscription for Associate Members, one shilling; for full members, five shillings. Editor's address: 45 Ladbrooke Grove, London, W., England.

Leaflets and other explanatory information will be gladly sent by the Secretary at the Head Office to any one inquiring.

#### EVERYBODY ABLE TO SPELL.

[From The Argosy, University of Mount Allison, April, 1909].

By W. M. T.

The recent spelling contest has once more drawn our attention to some of the vagaries of our language. Such a contest probably no other people than those who speak English have ever used to while away the time or to provide funds for a needy society. And the English have been able to enjoy this pastime only since spelling became stereotyped and conventional within the last hundred years. In Middle English spelling was phonetic. Each scribe spelled as he pleased and not always in the same way. Chaucer, as Artemus Ward said said, may have been a great poet but he didn't know how to spell. Long after Chaucer, people had not settled down to the hard and fast method which has come to seem to so many the only proper one. For example, Mr. Tovey's recent edition of the poet Gray's Letters shows how far from careful and exact according to our standards. ards such a scholar as Gray was, not only in the matter of grammar and capitals, but in the forms of his words. In reality, it is only for a little over a hundred years that we have had a generally accepted method of spelling to which all who would not be regarded as uncultivated of spelling to which all who would not be regarded as uncultivated. tivated or spelling to which an who would not be regarded for the form. That it would come to this one might have foretold. Each generation had no doubt had its own likes and dislikes in the matter of vocabulary and accent, had stamped certain thing. things with approval as marks of culture, and avoided certain others as suggesting the rustic or the boor. The wonder is that some generation did not earlier take the next step and lay stress on spelling, as the nineteenth century did. To lay this stress on spelling may be illogical and foolish, but it will require all our philosophy not to do so. If we is a different to for too, truely If we, in a letter, find such words as seperate, different, to for too, truely and and untill, scattered thru it, we almost inevitably are prejudiced again. against the writer. And yet we remind ourselves that spelling is no test of the writer. And yet we remind ourselves that spelling is no test of intellect. Some very dull and prosaic people spell faultlessly. Some People with most nimble and ingenious intellects cannot write their people with most nimble and ingenious intellects cannot write their witty and striking ideas accurately. A man may speak with the tongues of men and angels and not be able to spell. This would almost be born not made, and almost suggest that the speller is, as the poet, born not made, and that no that no one should be judged harshly because he cannot spell, anymore than because he cannot write odes or roundelays.

Towards this position our generation, which has little patience all tradition and custom, seems to be coming. Its motto is "prove fetishes." In the course of the proving or testing a good many ling is now held up to scorn as being a mere Mumbojumbo and not a genuine deity.

The Simplified Spelling Board of New York, in its bulletins, of English spelling." First, English, while fitted by its simple gram-

mar and large vocabulary to become an international language. is hampered by its intricate and disordered spelling which makes it a puzzle and a mystery to foreigners. Secondly, our spelling is now Thru the time and effort a burden on the children in our schools. which it demands, our children are kept from one to two years behind the school children of Germany, and many of them are condemned to alleged "illiteracy" all their days. And further, the printing and writing of the useless letters "which encumber our spelling, waste every year millions of dollars, and time and effort worth millions more." The Board does not propose any sudden or violent change. The Board does not propose any sudden or violent change. It first issued a list of the most common three hundred words now spelled in two ways, and counselled the choosing of the simpler form. For example, this would result in our writing, plow, altho, blest, stept, fiber, center, catalog, f for ph as sulfate, fantom, and or uniformly for our, as ardor, color, vigor, just as we already write author, actor, creator, which were formerly written with our. A second list of words was issued in January, 1908. This comprised seventy-five amended spellings and some seventy-five amended spellings and some seventy-five amended spellings and some seventy-five amended spellings and some seventy-five amended spellings and some seventy-five amended spellings and seventy-five amended spellings and seventy-five amended spellings and seventy-five amended spellings and seventy-five amended spellings and seventy-five amended spellings and seventy-five amended spellings and seventy-five amended spellings and seventy-five amended spellings and seventy-five amended spellings and seventy-five amended spellings and seventy-five amended spellings and seventy-five amended spellings are seventy-five amended spellings and seventy-five amended spellings are seventy-five amended spellings and seventy-five amended spellings are seventy-five amended spellings and seventy-five amended spellings are seventy-five amended spellings are seventy-five amended spellings and seventy-five amended spellings are seventy-five amended spellings and seventy-five amended spellings are seventy-five amended ings and some groups of words of particular forms. By the amended spelling we should see the spelling spelling we should get such words as alfabet, autograf, gost, dum, In changing groups of lim, lam, hight, tung, siv, eg, iland, ile, foren, det. words those in ile are simplified to il, as already in April, civil and others. This results in docil, fragil, hostil, fertil, juvenil, and a number of similar forms. In like manner ine becomes in, as already in origin and should then write areas areas. ilar forms. We should then write genuin, engin, masculin, famin; this Similarly, ite becomes it as now in credit, merit. Examples of this would be definite infait. would be definit, infinit, granit. Lastly ve becomes v, now an unknown ending for words in English ending for words in English, and consequently harder for us to become accustomed to This world with the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for us to be accused to the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for us to be accustomed to the consequently harder for the c accustomed to. This would give us activ, captiv, superlativ and thirty or forty others. A year later, in January of the present year, a third list appeared. By this many list appeared. By this, words written with ea, pronounced as short e, are to be written with the e. We should then have bred, ded, hed, the present red led) and th the present red, led), welth, endevor, def, trechery, and so on. Words having ed propounced as defeated, and so on. having ed pronounced as d, as in so many past tenses and participles are to be written mist. ples, are to be written with d, e. g., armd, doomd, pleasd, feard, scornd, and scores of others used for example and scores of others used, for example, in that form by Milton. ending ice pronounced as is, is to be written in the latter way, as in accomplish office justice complete forms. accomplis, offis, justis, cornis, precipis.

These are sufficient examples to give an idea of the changes proprosed. These changes become, as may be observed, more radical with the successive lists. They give a strange appearance to many familiar words, but time and use will overcome that. They certainly make English easier to pronounce. A foreigner could read these various words with accuracy, whereas in their original form many would give him trouble. However, the natural inertia and conservatism found among all classes, and therefore among type-setters, is on the side of holding to present custom. Even among a people accustomed to have the government dictate as a father to his children, and say in regard to all sorts of things "thou shalt" or "thou shalt not," spelling reform had a hard struggle. In Germany about 1880 Herr what Puttkamer, the Prussian Minister of Education, laid down what forms certain German words should henceforth have in the teaching in the Prussian schools. The changes were not at all radical and yet

there was a great outcry, due perhaps in part to Herr Von Puttkamer's personal unpopularity. Finally the state of affairs was, that the government which established the changes in the schools, prohibited its own officials from using them. Yet the innovations made their way by means of the schools, and in 1903 was issued a further revised system which all bodies under government control in Germany, Austria and Switzerland are bound to use. In this country governments are apt to be more careful to reflect public opinion in their legislation. A government which became meddlesome would soon no longer be yet no weight as an objection attaches to the popular appeal to hisare on the side of reform. Some papers such as "The Independent" will train people's eyes by slow degrees. Little by little a hold may be gained in the schools, and when a generation comes up, familiar from the school with the new forms, the revolution is accomplished.

the list of 3300 words, illustrated in the Calendar of the Normal of the ablest of our Canadian Professors of English].

148.

#### 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 shortly 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.

Historical Note.—The June number of the Educational Review, 1890, con-Edward Island, on the evolution composition, history, significance, and use of the Patriotic display in the schools of that province. On the 2nd of December, 1897, local school board on the subject of a patriotic day. Subsequently this and other school board on the subject of a patriotic day. Subsequently this and other be asked to set apart one day each year as a patriotic day. The Hon. G. W. Ross, in Nova Scotia, then president of the Dominion Educational Association, that it mediately before Victoria Day, the 24th May, which is a statutory holiday in all fax, presented the proposal, and that it should be called "Empire Day." The President fax, presented the proposal, and read the absent Hon. Minister's plea. The company accordingly before its close, on the 5th August, recommended "Empire adopted by that of Nova Scotia as indicated above, with the following instructions public schools:

- (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 Teachers and pupils should take part in as effective and in as varied manners as possible from year to year. 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 the days when the school flag should be flying. [The British Red Ensign (having the Union Jack in its upper quarter) was the flag originally used in Nova Scotia, and can always be appropriately flag. be appropriately flown. But in 1910 it was finally decided that the Union Test at th that the Union Jack should be considered the appropriate flag for public schools in the province as it had been so accepted thruout the Empire.
- (c) The exercises should not be directed to develop boastfulness of the greatness of the Empire. They should be a study of the causes why it became great, and how it may continue 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 Empire unity which is a new thing in history as the Empire extent is in geography. And most important of all, the exercises should be an inspiration to stimulate all to seek how they may further re-inforce 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 expected to file a report on the exercises of the day, no matter how brief, with the inspector of his or her division.

## 222.—COUNTY ACADEMY ENTRANCE EXAMINATION.

The regular mode of admission into county academies shall be by an entrance examination in the last week of the school term June, mainly on the subjects of Grade VIII. There shall be six subjects of examination as follows, the questions being sent out from the education office:—(1) Reading—to be tested by the examiners on the Grade VIII reading (second series for 1913). Music: Candidates known from individual or class exercises, or from reliable certificates, to be able to sing, especially when they have 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 examiner, providing the Reading is passable. (2) Language. (3) Drawing and Bookkeeping. (4) Geography and History—specially the Geography of Asia, Canada Oceania, in detail, with a review of Canada and History of Canada

(Hay or Calkin). (5) General Knowledge: including (a) The five families, Crowfoot, Rose, Heath, Violet and Lily; with the important native trees and the common weeds and insects injurious to (c) A few of the common birds. (d) Health Readers. (Mechanic or Domestic or Rural Science, or Music as in Regulations). 6. Mathematics.

For a pass, 60% will henceforward be required on the English and Arithmetic. spelled words, will be required.

#### 223.—HIGH SCHOOL PROMOTIONS.

- quired in any question, and should always be used when brevity or clearness may be gained.
- average of 50% with no mark below 30% on a group of six subjects grades IX, X and XI; and a group of nine papers for grade XII.
- on a group of six subjects in grades IX, X and XI, and on a group of ever must be made on English in each grade for a "Teachers' Pass."
- nine papers indicated in (2) and (3). In such cases the "pass" shall highest nine papers, as the case may be. A "pass" requires the fulment of all conditions specified in special regulations which refer to it elsewhere, as well as the general regulations above.
- which shall contain eight questions.
- to a "Teachers' Pass," he shall be required to make an average of at is, a "Teachers' Pass," he shall be required to make an average of at is, a "Teachers' Pass" by partial examinations will require at least a candidate is not writing for a higher grade, and therefore all such tion.
- in the Provincial Normal College, whose faculty can raise it to the the Normal diploma cannot be awarded.
- who fail on account of being too low in not more than two subjects, but who have made the High School average pass on the other subjects,

and 60% on English, shall have the privilege of completing the pass at a subsequent 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 not more than two subjects, but who have made a high school average pass on the other subjects shall have the privilege of completing the pass at a subsequent examination by making at least 65% on English, and 60% on each of the nine papers not 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 mispelled word.
- (11) The High School subjects to be taught in a rural, or incompletely graded high school, shall be determined by the school board in agreement with the principal, with an appeal to the Inspector and from him to the Council, in case of disagreement or dissatisfaction.
- (12) Any subject deemed to be of importance in any community, may be put on the program of a school by the school board with the consent of the Education Department.
- (13) No school is advised to undertake the work of Grade XII with less than a staff of four regularly employed high school teachers.
- (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 Teachers' or a High School pass in each will But the substitution of a lower grade work for that of a higher The be allowed under no other conditions than specified above. candidate should state this fact in his final examination statement so as to allow of its verification.
- (15) Teachers are required to make themselves acquainted with the probable future requirements of pupils by consultation with them and their parents or guardians, before advising in the selection of the optional subjects. Those who are likely to attend the universities, etc., should select the subjects required for matriculation in them. The same policy will apply to the teaching profession and other vocations.

["The Advisory Board recommends that every high school pupil should take at least one foreign language during each year of the high school course; and where more than one foreign language is taken, the Board recommends that one of these languages be Latin. The Board considers that a knowledge of Latin and another foreign language by all teachers is highly desirable."

#### 224. HIGH SCHOOL PROGRAM.

#### GRADE IX.

(English and any five other subjects imperative.)

## 1. English:

- (a) Literature:—High School Prose Book, Part I. (ed. by O. J. Stevenson, pub. by Morang, Toronto, \$0.15). Matthew Arnold's Sohrab and Rustum; Goldsmith's Deserted Village and Whittier's Snow-Bound as contained in "Longer Narrative Poems" (Ed. by J. Jeffries, 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 chapter L., or any equivalent grammar, with easy translation and Latin to be used in all grades].
- to page 56. French:—Bertenshaw's Grammar, Part I., and First Reader
- 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.
- 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.
- Bailey and the study of the Wild Plants of the Phenological Observations, with Pteris, Aspidium, Asplenium, Onoclea, and Osmunda.
- 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 attention to the development of readiness and accuracy in written narrative, description, exposition and general correspondence. For outside reading and theme writing: Hughes' Tom Brown's School Days, (Macmillan, Toronto, \$0.25).
- (b) As in Grammar:—Text book complete.
- 2. Latin:—As in Collar and Daniell's First Latin Book complete, and "Caesar's Invasion of Britain," by Welch and Duffield.
- 3. Greek:—As in White's First Greek Book, lessons 1 to end of XL.
- Or French:—Bertenshaw's Grammar, Part 11, 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.
- 4. **History**:—Review of British History as in "Outlines" of British History; and oral lessons by teacher based on Bourinot's "How Canada is Governed" or "Canadian Civics"\* (three questions).
  - 5. Chemistry:—Inorganic, as in Waddell.
  - 6. Arithmetic:—Text book complete.
- 7. Algebra:—As in Hall & Knight's Elementary to end of Chapter XXVII.
  - 8. Geometry: Hall & Stevens' School Geometry Part 1.

\*To be published in 1912.

### GRADE XI.

(English and any other five subjects imperative.)

1. English:—Shakespeare's As You Like It (Longman's, \$0.25). Macaulay's Essay on Johnson (edited by Buehler, \$0.25). History of English Literature as in Meiklejohn. For outside reading and theme writing: Scott's Ivanhoe (Longmans, \$0.25).

- 2. Latin:—Grammar and easy composition partly based on prose author read.
  - (a) Caesar's De Bell, Gall., Book 1. (b) Vergil's Aeneid, Book
    - 1, with grammatical and critical questions. (c) First Exercise in Latin Prose Composition by E. A. Wells (Geo. Bell & Sons, London).
- 8. Greek:—Grammar and easy composition based partly on author read; and White's First Greek Book to end of Chapter LIX. Xenophon's Anabasis, Book I, with grammatical and critical questions.
- Or French:—Berthon's Specimens of Modern French Prose omit-Nelson & Son, or Mackinlay).

Fraser and Squair's Grammar, sections 227 to 344, with the corresponding exercises, pages 343 to 371; or a thoro review of Bertenshaw's Grammar, parts I and II, with exercises complete.

- Or German:—As in Joynes-Meissner to lesson 44, with Buch-heim's Modern Reader, Part I, complete. Review of Grade X German.
  - 4. History:—General History, as in Swinton.
- (b) Electricity, to be taken with the rest of the text, alternative questions to be given on (a) and (b), as in Gage's Physical Science.
- 6. Practical Mathematics:—To be known as Trigonometry Mensuration. As in Murray's Essentials of Trigonometry and Mensuration, excepting Chapter XI.
- 7. Algebra:—As in Hall & Knight's Elementary Algebra to Chapter XL, except Chapter XXIX to end of XXIXd.
- III and IV, omitting pages 207 to 219.

#### GRADE XII.

## (Leaving Examination.)

Nine papers out of fifteen on the following twelve subjects conlish, two foreign languages, one mathematical and one scientific subthe scientific subject, and those who make an average of 70 (Teacher's pass) or 60 (H. S. pass) on English, may omit foreign languages].

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 Merchant of Venice, (Longmans, \$0.25); Palgrave's Golden Treasury, Book II complete, (edited by Bates, Longmans \$0.25); and Emerson's Essays (selected, edited by Holmes, Macmillan, \$0.25).
- With the following books for outside reading and theme writing:

  Longer Narrative Poems (edited by Jeffries, Morang, \$0.15).

  Holmes' Autocrat of the Breakfast Table (Every man's Library), and Thackeray's English Humorists (edited by Bennet, Longmans, paper 0/3, cloth 0/6).
- 2. Latin. (Two papers); (a) Bennett's Latin Grammar of equivalent; Bradley's Arnold's Latin Prose Composition end of exercise XXII; Sight Translation.
- (b) Caesar's De Bell, Gall. II, III and IV, Vergil's Aeneid, Books II and III.
- 3. Greek. (Two papers); (a) White's "First Greek Book, completed and reviewed. Sight Translation; Easy position partly based on the prose author read.
- (b) Xenophon's Anabasis, Books II, III and IV.
- 4. French:—Sandeau's Sacs et Parchemins (edited by Pellissier, Macmillan, Toronto, \$0.90); Corneille's Polyeucte (Edited by Braunholtz, Pitt Press Series 2/—); Angier & Sandeau's Le Gendre de M. Poirier (edited by Preston, Blackie & Son, —/8); with questions upon grammar and composition as in Fraser and Squair's Grammar, 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 Acts I, II, III, and IV (edited by Carruth, Macmillan, \$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:—Hall and Stevens' School Geometry, the whole book—six parts.
- 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. 225. Form of Application for Provincial High School Examination. At.....STATION. I, ...., a duly licensed teacher of Class names are given below from No. 1 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 Record, being the amount of fees required under sub-section (b) of Regulation 95, "Provincial Examination of High School Students," as specified in the list below. \$2.00 Candidates intending to take the M. P. Q., examination (fee third rank free—payable to the deputy examiner at examination) are indicated by the letters M. P. Q., in the column headed "remarks" below. 

If a candidate has a physical defect preventing good reading or writing, application may be made if qualified by, and accompanied sideration of the Education Department.

## 232. TEXT BOOKS FOR PUBLIC SCHOOLS.

In performing the duty of selecting and prescribing text books the Public Schools, the Council of Public Instruction has availed who are engaged in the practical work of education. The sole aim of

recent modifications has been to secure at a reasonable cost, a series of texts adapted for use in schools. Change in authorized books is in itself a very undesirable thing.

#### Instructors and teachers are reminded—

- (1) That the course of study for common schools encourages an economical expenditure for the text books by providing a system of oral instruction for junior classes. Too many teachers try to satisfy themselves in respect to their more youthful pupils by placing in their hands text books not needed in any case, and worse than useless when unaccompanied by proper oral exposition. A text book should not be required for a child until he is prepared to use it intelligently.
- (2) That the regulation which makes it illegal and improper for a teacher to introduce unauthorized texts, by no means hinders him from giving his pupils the benefit of other treatises to whose explanations he may attach importance. The progressive teacher will always have such aids within reach, and will so use them as to impart variety and interest to his instructions.
- (3) Under section 81 (e) of the Education Act, school sections can vote money for the purchase of prescribed school books; and school trustees are free to arrange to obtain them at wholesale rates from publishers, or with the regular trade discounts from booksellers, and to arrange to distribute them at cost, at reduced price, or free, to all pupils of their schools, or to pupils who cannot afford to buy them.
- (4) For the full information of school boards the regular (a) retail price, and (b) dozen lot cash price of each is given according to the trade usages followed by the leading book dealers Halifax. following list gives merely in a general way the price of the book when bought (a) singly and (b) in small lots. The terms in detail can be obtained exactly from the dealer.

Price of Books for Common School Grades.		Per Doz'n
Acadian Reader No. 1, Part 1, Part 1 (Nelson, Edinburgh). Acadian Reader, No. 1, Part 2 (Nelson, Edinburgh). Acadian Reader No. 1, Complete (Nelson, Edinburgh). Acadian Reader No. 2, Complete (Nelson, Edinburgh). Acadian Reader No. 3, Complete (Nelson, Edinburgh). Acadian Reader No. 4, Complete (Nelson, Edinburgh). Nova Scotia Reader No. 1 (Morang, Toronto). Nova Scotia Reader No. 2 (Morang, Toronto). Nova Scotia Reader No. 3 (Morang, Toronto). Nova Scotia Reader No. 4 (Nelson, Edinburgh). Nova Scotia Reader No. 5 (Nelson, Edinburgh). Nova Scotia Reader No. 6 (Nelson, Edinburgh). Reading for VII and VIII [Series 1, 2, 3] Mackinlay and Allen, Boards. History of Canada (Calkin's Brief) Mackinlay. Geography [Calkin's Junior, (Mackinlay)]. Augsburg's Drawing Books (Ed. Co., Boston), or. Ontario Drawing Books (Can. Pub. Co., Toronto). Ontario School Hygiene (Copp, Clark, Toronto) Ontario School Hygiene (Copp, Clark, Toronto).	.07 .20 .30 .35 .40 .15 .25 .25 .30 .30 .19 .23 .25 .20 .60 .60	15 15 122 1 122 1 12 1 12 1 1 1 1 1 1 1
Price of Books for High School Grades.		
Nova Scotia English Grammar (Mackinlay) Boards. Outlines of British History (Mackinlay) Canadian Civics [N. S. Edition] (Copp, Clark, Toronto)†† Morton's Mechanical Drawing (Allen). Collar & Daniel's Latin Book (Ginn & Co., U. S. A. Waddell's Chemistry (MacMillan) Bailey's Botany for Beginners (MacMillan) Hall & Knight's Algebra (MacMillan) Hall & Stevens' School Geometry, I-VI (MacMillan). Academic Arithmetic (Allen)	*.35 .90 .40 1.00	*.28 .72 .32 .80

\*Price at Toronto.

May be changed next year.

Price at Toronto per fifty.

Governed" at \$1.00.

Most of the other books used in the high school grades have their retail prices specified in the high school program and the wholesale prices are generally in the same ratio as indicated above.

All the books used at present, such as Allen's Arithmetic and Health Readers, may be legally used the following year, or even for two years, where it may be lound convenient to utilize the old books.

#### Books at Wholesale Prices.

selves for their school law of Nova Scotia enables school sections to assess them-done in many sections of the province, some of which supply the books free to the pupils. They can equally well be sold at cost; so that a school section which once the money and have it recovered angular and thus without any more cost voted the money could have it recouped annually, and thus without any more cost continue to supply books at wholesale cost forever.

The school trustees are the proper parties to take charge of the supply of books; tor the school trustees are the proper parties to take who they are in continual and close touch with the school. who desire to own their books to have them at wholesale prices; and the deserving the management can be supplied free. There can be both oversight and economy under the management of the local trustees.

Nov.

11.



## JOURNAL OF EDUCATION.

## APRIL. 1912.

#### OFFICIAL NOTICES.

The full number of legal teaching days in the half school year ended 2nd February was 103; and in the half school year to the end of June next it is also 103 days. School year 206 teaching days.

#### Summer Calendar, 1912.

Fourth Quarter of the School term begins. 15. April University Post-Graduate Examination Applications. May 1. 3. May Arbor Day. 23. Empire Day. May Victoria Day (Holiday) H. S. Exam. Applications. Applications for admission Halifax Military School. 24 May 6. Tune Applications for admission, Rural Science School, Truro, 24. June Regular Annual meetings of School Sections. 24. Tune Provincial Normal College closes, Truro. 27. Tune County Academy Entrance Examination begins. 27. Tune Last authorized teaching day of school year. 28. Tune 1. Dominion Day. Tuly Provincial Examination begins. 2. Tuly Last day for Annual School Returns to be received. 6. Tuly Openings of Summer Schools at Halifax, Truro and Yarmouth. (Respectively 10. July Yarmouth, (Respectively, the Military, Rural Science and Summer Schools). Next School year begins. 1. Aug. Regular opening of Public Schools, First Quarter. 26. Aug. Provincial Educational Association opens. 27. Aug. Labor Day (Holiday). 2. Sept. Normal College opens at Truro. **19**. Sept. Dominion Thanksgiving Day. Oct. Second Quarter of School Term begins.

# DATES OF MEETINGS OF BOARDS OF DISTRICT SCHOOL COMMISSIONERS.

\*Halifax, Rural—Tuesday, May 14th. Halifax, Kurai—Tuesday, May 10th. Halifax, West—Wednesday, June12. Lunenburg—Wednesday, May 8th. Chester—Friday, June 6th.
Queens, North—Thursday, May 9th.
Queens, South—Thursday, May 16th.
Shall May 17th. Shelburne—Friday, May 17th. Barrington—Friday, May 10th. Yarmouth—Tuesday, June 4th. Argyle—Thursday, June 6th.
Annapolis, East—Tuesday, April 30th.
Annapolis, East—Tuesday, April 29th. Annapolis, West—Monday, April 29th. Digby Saturday, May 4th. Clare—Thursday, April 25th.

Kings—Tuesday, May 14th.

Hands—May Hants, West—Friday, May 17th. Hants, East—Wednesday, May 1st. Antigonish—Wednesday, May 22nd. Guysboro—Wednesday, May 15th. \*\*St. Mary—Wednesday, May 29th. Cape Breton—Tuesday, May 21st. Victoria—Tuesday, June 11th. Tuesday, June 11th.

\*\*\*Inverness, North—Tuesday, May 28th.

| Richards, July 10th. Richmond—Wednesday, July 10th. Pictou, West—Monday, May 20th. Pictou, East—Tuesday, May 21st. Parraboro—Wednesday, April, 24th. Cumberland—Tuesday, May 28th. Colchester, South—Saturday, May 4th. Colchester, West—Friday, May 3rd. Colchester, West-Tuday, May 7th.

<sup>\*\*\*</sup>Rennetcook. \*\*Sherbrook. ††\*Margaree Forks. \*\*\*Port Hood. || || Arichat.

#### DISTRICT SCHOOL COMMISSIONERS.

(Appointed 25th April, 1911).

Parrsboro-J. Newton Pugsley.

(Appointed 8th May, 1911).

Richmond—Alex. McCuish, St. Peters.
D. H. Campbell, Arichat.
Rev. P. Robitaile, River Bourgeois.

(Appointed 24th May, 1911).

Pictou, East—Rev. J. J. McKinnon, Bailey's Brook.

(Appointed 25th May, 1911).

Richmond—Rev. W. A. Huband, Arichat. Inverness, South—Rev. Peter Rankin, Creigmish.

(Appointed 5th January, 1912).

Inverness, South—Rev. Robt. McEwen, Port Hood. Rev. Ronald H. MacDougall, Brook Village.

(Appointed 27th February, 1912).

Inverness, North-Rev. A. H. Cormier, Grand Etang.

(Appointed 27th March, 1912).

Halifax, Rural—Rev. D. S. Fraser, Little River. Rev. H. McIntosh, Middle Musquodoboit. Rev. David Coburn, Upper Musquodoboit.

(Appointed 4th May, 1912.)

Hants, East:—A. J. Reid, Milford.
Chas. D. McKenzie, South Rawdon.
Bert Roy, Maitland.
Hennegar White, Noel Road.
Dr. M. A. O'Brien, Noel.
Wm. Sterlung, Sterling's Brook.
Hugh Fraser, Elmsdale.

Hants, West:—Chas. E. Wilson, Upper Falmouth.
David Withrow, Avondale.
Andrew L. Harris, Brooklyn.
Josiah Armstrong, Kempt.
Alonzo Armstrong, Cheverie.
S. F. Schurman, Hantsport.

Queens, North:—Asaph Frank, Pleasant River.
Zoeth Minard, Harmony.

Pictou, West:—Rev. G. D. MacIntosh, River John.

Pictou, East:—Rev. A. Maclean Sinclair, Hopewell.

Cape Breton:—Rev. J. W. Smith, Leitches Creek.

Sections Placed on the Second Schedule.

15th April, 1911.

Inverness, South—Church No. 67.

18th July, 1911.

Queens, North—New Grafton, No. 6.

28th July, 1911.

Cape Breton-Blockhouse, No. 14.

27th Feb., 1912.

Colchester, South-North River, No. 13.

4th May, 1912.

Cumberland—Lower River Hebert, No. 47. Pictou, East—Glengarry, No. 6. Pictou, West—Lower Green Hill, No. 45.

The new Arithmetic (Ontario), when it is introduced should not be placed in the hands of pupils before grade III and not necessarily suitable for each grade as outlined in the Manual of School Law for may continue to be used next year.

Music in the Public Schools, published by Ginn & Co., Boston, A series of Song Readers belonging to the same course for pupils. if Songs, is spoken of as a desideratum for our schools.

that the best interests and the regular progress of schools in our larger supervision of Principals in accordance with a scale which should departments one day of the week; 15 to 29 departments, two days, to 30, three days; 30 to 40, four days; and above 40 the whole week.

#### Special Statistics for 1912.

The blank columns 148, 149 and 150 in the Register and Annual Return are to be filled in as follows this year:

- 148. No. of pupils in common school grades learning French.
- 149. No. of pupils in high school grades taking one foreign language only.
- 150. No. in high school taking two or more foreign languages.

[In the new Registers these three columns will become 150a, 150b, 150c.] No supplementary statistics required this year.

## The New Register for 1912.

Teachers should notice that the statistics in the new Register assumed to come into use August, 1912, have been changed between columns 90 and 150, in order to obtain statistics on medical inspection, defectives, incorrigibles, etc., which are now of importance. To make the change as convenient as possible all the other columns have their numbers unchanged. Great care should be taken to have every answer as accurate as possible. The principal of the schools of the section is held responsible for the accuracy of the different items and their totals from the section, as well as the subordinate teacher who may be the original in error.

## School Engagements.

Teachers will be careful to observe the following regulations which are found to be necessary to enable Inspectors to have the schools filled. No item of information required should be omitted; otherwise the briefer the notice the better.

- 35 (1) 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 engagement, the class of license held, its year and number, the name and address of the secretary, 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 the said opening day of the teacher's service.
- (2) If any school should be closed temporarily on an authorized teaching day, it shall be reported promptly by mail to the inspector, in advance whenever possible, with the reason. Should this be neglected, the loss of the day cannot be made up by teaching on the substitute days otherwise allowed by regulation.
- (3) These intimations shall be kept on file in the inspector's office, to regulate his movements and his efforts in providing teachers for vacant schools; and any delay on the part of teachers in giving these notices shall render them liable to the loss of Provincial Aid.
- 36 A teacher intending to compete (1) for superior classification as an Academic, class "A", or a rural science teacher, or (2) for a school library grant, or (3) for an inspector's certificate for promotion, or (4) for 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 then the last day of Scotember.

#### Regulation 26.

The sectional rate roll shall be made out and posted by the trustees on or before the last day of September, and shall be collected as promptly as possible so as to provide for the quarterly payment of salaries and other accounts due.

# EMPIRE DAY CONTRIBUTIONS FROM THE SCHOOLS.

## For the 1758 Parliamentary Tower, Halifax, 1912.

('a	
Cape Rrot	
Cape Breton County Schools, Inspector Phalen. Colchester County Schools, Inspector Craig. Lunenburg County Schools, Inspector Campbell.	\$103.58
Colat County Schools Inspector Craig	84.42
The ster Court of Schools, Inspector Claig	
Schools, Inspector Campbell	59.54
Talic "418 and Oneens Schools Inspector Mediatoch	51.10
Many City and County Schools Inspector Craighton	42.28
Mys Schools Inspector Robinson	24.43
Anti- 100 NORTh and Victoria Schools Ingrester Mackings	22.91
Fleton and Chivshoro Schools Inspector Madconald	22.62
Ann. County Schools Inspector Assertance	16.71
Shelk and Dighy Schools Inspector Mores	16.10
Inverness South and Richmond Schools, Inspector Macneil	14.25
South and Richmond Schools Inspector Magnet	13.47
and recimiond Schools, hispector Machen	10.41
Total .	

Royal Highness the Duke of Connaught, Governor-General of Canada. The patriotic teachers and pupils represented in the above contributower. Such people are the salt of the Empire, altho the thousands will have pleasure in sharing the cost of our common responsibilities and our common glory.

### Prizes Offered for Patriotic Poems.

The Executive of the Halifax Canadian Club offer two prizes resident and forty dollars, and invite Nova Scotian writers, whether words, suggested by the completion of the Parliamentary Memorial Highness the Duke of Connaught, K. P., Governor-General of Canada.

The poems, signed by a nom de plume, and accompanied by the orary Secretary by the fifteenth of July next, and will be examined by a professor of English Literature in the University of Toronto. The dian Club; the others, if so desired, will be returned to the authors.

## Teachers Holding Academic License.

Residing in the Province of Nova Scotia.

[The asterisk denotes those not at present employed as teachers.)

## Annapolis.

O. McNutt Martin	Annapolis Royal.
Lenfest Ruggles	Middleton.
*Samuel C. Shaffner	Granville Ferry.
*Joseph W. Tanch	Granville Centre.
Elbert J. Whitman	New Albany.

## Antigonish.

Moses. M. Coady	Antigonish.
Mary L. Fraser (Sister St. Thomas des	Anges). Antigonish.
John W. McLeod	Antigonish.
*Anna E. McLeod	Loch Katrine.
Hugh McPherson	Antigonish.
James J. Tompkins	Antigonish.

## Cape Breton.

John I. ArchibaldSydney.
James Bingay
Wm. A. Creelman
Milton D. DavidsonNorth Sydney.
Agnes A. DoddsSydney.
Russell Ellis
Wm. E. Haverstock
Florence M. KeatingGlace Bay.
Mary I. MacRae
Duncan M. Matheson
Gertrude O. H. Smith
*F. I. StewartSydney.
J. Logan Trask
- Sydney,

## Colchester.

*Eugene A. Archibald	Γ
E. G. Archibald	r ruro.
D. G. Davis	I ruro.
I A DoWolfo	l'ruro.
L. A. DeWolfe	Truro.
riorence Donovan	Γ==
H. E. England	Printo
T. M. Hibbert	ruro. Permo
Amy Mosher	ruro.
N. A. Oalanna	ruro.
N. A. Osborne	Cruro.
*Grace Patterson	l'ruro.
L. A. Richardson	Fruro
Percy Shaw	Pruro

Cumberland.
Mayhew C. FosterParrsboro.E. J. LayAmherst.F. G. MorehouseSpringhill.Elizabeth SmithAmherst.
Digby.
Mabel Patterson
Guysboro.
Mary A. Rudolph
Mary A. Rudolph
Halifax City
H. M. Bayer H. H. Blois D. D. Boyd H. Halifax H. D. Brunt Halifax Halifax Halifax Halifax Halifax E. Cummings Halifax Sr. Evaristus Halifax Halifax Halifax Halifax Halifax Halifax Halifax Halifax Halifax J. W. Logan Halifax G. R. Marshall Halifax D. J. Matheson Halifax
Sr. Rosaire. Halifax. J. H. Trefry Halifax.
II life of County
W. C. Storl
W. C. StapletonDartmouth.
Unite County
GAN IT
Geo. W. Dill
Sinith Windsor.
Inches was a second and the second a
Ida Thompson
Ida Thompson
Vim Caranter
Jesale D
Jessle B. Campbell Berwick. Robie W. Ford Wolfville. P. L. M. Oxner Kentville.
Bertha M. Oxner Kentville. P. I. Swanson Kentville.
P. I. Swanson Kentville. Winnifred Webster Kentville.
Winnifred Webster

#### Lunenburg

Minnie Hewitt	Lunenburg.
R. T. Mack	Bridgewater.
B. McKittrick	
Jeannette McLeod	Mahone Bay.

#### Pictou

Robert E. Inglis	Pictou.
John Crerar Macdonald	Pictou.
Annie McKay	Pictou.
Robert Maclellan	Pictou.
John T. McLeod	New Glasgow.
*Henry F. Munro	Pictou.
Howard H. Mussells	Pictou.

#### Queens

Christina Coulter	Milton.
Jennie Mullins	Liverpool.
R. F. Morton	Liverpool.

#### Richmond

Margaret L.	Maxwell	St.	Peters.
-------------	---------	-----	---------

#### Shelburne

Angus	McLeod	 Shelburne.

#### Victoria

Christena O. MacLean	Baddeck.
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## Yarmouth

Norna B. Bingay	Varmouth
Geo. D. Blackadar	Varmouth
Albinus W. Horner	Varmouth
W. F. Kempton	Voumouth
Margaret W. McGrav	Vannaniale
*Beatrice Tooker	Yarmouth.
Harry J. Wyman	Yarmouth.

The Superintendent of Education desires to make a complete and accurate list of Academic teachers to be published for purposes of record in the October Journal. He will be glad, therefore, to have the full and correct form of every name above (full Christian names, not initials); and any names omitted. He will omit the names of any who intimate their withdrawal from the profession.

## An Act to amend Chapter 2 of the Acts of 1911, "The Education

Be it enacted by the Governor, Council, and Assembly, that Section 127 of the Education Act be repealed, and the following substituted:-

127. 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 teachers of the Academic Class shall receive an annuity equal to double the average annual provincial aid they were regularly entitled to draw during the last ten years of their service; but every Academic Teacher who has served as Inspector of Schools shall be entitled to receive as an additional annuity after retirement twenty dollars for each year of Inspectorial service; and everyone who has also been for at least fifteen years the principal of the schools of the section and in receipt of an average salary of at least One Thousand Dollars during the last five years of his or her service, shall receive an additional annuity of Eighty Dollars, but no teacher's annuity under this Act shall exceed Six Hundred Dol-

### University Graduate Examination.

Reg. 230 (b) is amended by adding the sentence, "An average of forty per cent. will be accepted as a teacher's pass on Grade XII, and of thirty per cent. as a teacher's pass on Grade XI, provided English does not fall below the pass mark."

## NOTES AND COMMENTS.

Owing mainly to the lateness of the session of the Legislature, the Journal could not be issued in April.

The attention of teachers is directed specially to the Report of the Committee on the Common School Course of study which forms a volume which when finally discussed and revised will become a very important hand book for teachers, and one of the texts for teachers examinations. Arrangements are being made to have "separated by the subject arates" at cost price for those considering or discussing the subject at the Provincial Educational Association.

The Association will meet in Halifax during the last week of not and may meet in the Technical College if the attendance is not too large. The program printed on page 128 is only provisional, and too large. and suggestions for its amendment will be gladly received by the

Secretary from any interested.

A teachers' institute was held at Middleton before Easter by Inspector Morse.

Inspector Craig is to hold an Institute at Amherst before Victoria

#### TEACHERS' SALARIES.

The only solution of the difficulty of obtaining effective teachers is a question of salary. We give below, therefore, the average salary of each class of teacher and the maximum salary given at present. If trustees would in no case offer a salary lower than the average, and when possible greater than the maximum, we would soon have the finest schools in the world; for we have both good stock and good trainers, and our best products would be retained for own schools.

Class.	Sex	Average Salary	Highest Salary.
Academic	M	\$1,054	\$1,800
Academic	F	652	1,100
First	M	569	1,300
First	F	360	900
Second	M	336	800
Second	F	285	700
Third	M	235	400
Third	F	207	300

The following comment from page XXIX of the last Education Report explains why the Legislature has just passed the Act printed on page 191 preceding, which places Academic teachers among the most favored of the learned professions.

Academic teachers under the present outlook may well be considered as the standard type of the teaching profession. For this reason and on account of their being the teachers giving character to the high school work and to the general scholar-ship of all our teachers, the Government can well afford to encourage their permanent occupation of the profession, by the largest Provincial Aid, and the most liberal offer of a retiring annuity at the end of a long service. It is the only class of teacher which has to make a serious preparation for the life work of teaching. The class "A" teacher needs only the general scholarship of our high school grade The Academic teacher at that stage, is only ready to enter on his University course of four years, so that his work of preparation for the duties of a public teacher, is far beyond the other classes.

Only one candidate at date has passed the University Graduate Testing examination. Four have applied for examination—mostly for partials—at the next examination in July at Truro, the only station for this examination.

## Patriotic Landmark.

President Macgillivray of the Halifax Canadian Club sends the following appreciative note to the Superintendent of Education in reference to Nova Scotia's greatest Patriotic Landmark, as the **Journal** goes to press:

The public school Inspectors of the Province upon whose initiative the school children were permitted to have some part in the erection of the Memorial Tower at Halifax will be

pleased to learn that the children's contribution reached the substantial sum of \$471.41, and that the Tower is now about completed and will be dedicated on 14th August next by His Royal Highness the Governor General of Canada.

This will also be a source of satisfaction to the teachers who placed the matter before the pupils, and thus point a useful lesson in patriotism, as well as draw attention afresh to a chapter in the history of Nova Scotia of which every boy and girl may well be proud.

It is hoped that many, if not all of the Inspectors and Teachers will, during the summer, be able to visit the Memorial, and we are quite sure that nothing would give the officials halifax more pleasure than to learn that from time to time, boys and girls from different places in the Province, when in Halifax, should go out to the North West Arm and climb the Tower to its very top, feeling a just sense of pride in the fact that they helped to build it.

### Educational Opinion in Nova Scotia.

On page 174 preceding a recommendation from the Advisory Board is appended to Regulation 223 (15). Foreign languages can loss of time necessary for effective teaching in English and the other subjects, and (2) without injury to the character of the English neglecting accurate drill in the effective use of our own language. Where these conditions are fulfilled the teaching of foreign languages while useful to many will be injurious to none.

In this connexion it is as necessary to bear in mind also the recommendations of the four greatest of our practical educationists On page 221 of the Education Report for 1911, Principal F. H. Sexcourses made optional in the common and high school grades, says:

Another advantage of these classes was the tendency to keep the boys in the Quality of preparing them for intelligent wage earners in the skilled ranks. It is interest in school work and tend to go to work in the pits as soon as they are allowed technical instruction continued up even into grade IX, in increasing numbers. In zie, coal mining instructor for Pictou Co., there was a larger number of boys in grade to an increasing number of pupils in grade VIII is evinced by the following letter the Department of Technical Education from Mr. F. I. Lent, principal of the Westville schools, Oct. 7, 1911:

"In regard to the increased attendance in grade IX, I may safely say that it is due, almost entirely, to the introduction of drawing in the schools, by the Technical

The boys of the Westville Schools are very much interested in the drawing and elementary science, and I believe that the attendance of boys in grade IX which is double that of last year, is in a large measure due to the lively interest taken in this work"

On page 141 of the same report, Mr. Melville Cumming, B. A., B. S. A., Principal of the College of Agriculture, says:

The facts stated in the previous paragraph evidence the effects that industrial education is bound to produce along the various lines of activity. Unfortunately, however, for Nova Scotia, some eminent educationists have felt that industrial education did not develop sufficient with education did not develop sufficient culture and, as a result, a type of education is being insisted upon for our public schools by some of these men, which is aimed more at turning out University scholars than men who can build up the prosperity of our country. Now, no men seem to appreciate the improvement in material conditions which is gradually consists that it is a reducible consist that it is a reducible consist that it is a reducible consists that it is a reducible consists that it is a reducible consists that it is a reducible consists that it is a reducible consists that it is a reducible consists that it is a reducible consists that it is a reducible consists that it is a reducible consists that it is a reducible consists that it is a reducible consists that it is a reducible consists that it is a reducible consist that it is a reducible consists that it is a reducible consist that it is a reducible consist that it is a reducible consist that it is a reducible consist that it is a reducible consist that it is a reducible consist that it is a reducible consist that it is a reducible consist that it is a reducible consist that it is a reducible consist that it is a reducible consist that it is a reducible consist that it is a reducible consist that it is a reducible consist that it is a reducible consist that it is a reducible consist that it is a reducible consist that it which is gradually coming about in the province more than these men of scholarship in In fact, they have given our institution their approval and have encouraged us in every way by their praise. When, however, we have said that our own work was greatly hampered by the lack of training along our special lines in the common schools: and when moreover we have saided at the common of the common schools: greatly nampered by the lack of training along our special lines in the complex schools; and when, moreover, we have pointed out that only a small percentage of those who attended the common schools ever go to any higher institution of learning; and have, therefore, pled for more industrial education in the common schools; they have called a halt. We, ourselves, think that this is too serious a matter to be dealt with superficially, and that it ought to receive for more industrial to the serious a matter to be then it with superficially, and that it ought to receive for more industrial than it dealt with superficially, and that it ought to receive far greater consideration than it has yet received from educationists in the has yet received from educationists in the province.

No one takes more pride than we do in the reputation that Nova Scotia has gained for scholarship; but, on the other hand, no one regrets any more the correspond ing lack of material prosperity which has made it. -ing lack of material prosperity which has made it imperative that the great majority of these men of scholarship should leave our country and that the great majority those of these men of scholarship should leave our country and make their living in those parts of the world where there is more industrial activity. The time is ripe for Nova Scotians, no matter to what class they belong to use the story belong to use Nova Scotians, no matter to what class they belong, to unite and to agree upon a system of education, which will be a system of education, which will be a system of education. system of education, which will have a greater effect upon the material development of the country. Personally was a read of the country. of the country. Personally, we appreciate the opportunity we have along these lines in the College of Agriculture and we only wish that every teacher, whether in the industrial schools or the common schools or the university, could have an equal opportunity of effecting an improvement in the material development of the province.

It is for these reasons that we would urge upon the educational authorities a the consideration of these matters parties further consideration of these matters pertaining to the industrial education of the youth of the Province of Nova Scotia. youth of the Province of Nova Scotia.

And on page 123 of the Report, Dr. David Soloan, Principal of the Provincial Normal College, makes an appeal which modern educationists all over the world as well tionists all over the world as well as the intelligent public of Nova Scotia will support. He says:

In a former report I referred at some length to the deficient preparation in science and indidates for diploma. In some cases there of candidates for diploma. In some cases there are glaring deficiencies in mathematics. In other cases, it is in physics, or in chemistry, or physiology, or botany, sometimes not even the most rudimentary principles or even the terminology of these branches being familiar to the candidate for diploma and license. This outcome is what must naturally be expected when the present choice of subjects is permitted. what must naturally be expected when the present choice of subjects is permitted to high-school students. The genuine study of natural science calls for first-hand observation, some originating power, and resource to the science calls for first-hand upon observation, some originating power, and resourcefulness, and a dependence upon other mental functions than those of memory and deduction. It will never popular study in schools where the teacher lacks training in the investigation of material phenomena. It is not as popular a choice among application for high-school material phenomena. It is not as popular a choice among applicants for high-school certificates as its importance warrants. For the service and applicants for high services as its importance warrants. certificates as its importance warrants. For the equipment of a teacher it is established. Its omission from the curriculum of conditions and continue of conditions. sential. Its omission from the curriculum of candidates for a teachers' certificate

is a challenge to the spirit and the circumstances of the age in which we live; a defiance of the conclusions reached by educational investigators and educational authorities in the most progressive countries of the world. The revival of agriculture in Nova Scotia demands that a purposive study of the phenomena of earth, air, schools. Any neglect of science in our high schools, especially its omission by candidates for license, is sure to result in a transfer of indifference to the common school grades.

The injurious effect of this indifference is noticeable at once in both the Agricultural and the Normal colleges. In the former institution, where a proportion of the students is drawn from village and rural schools, the teaching staff is called upon to conduct classes in the rudiments of science for boys who should have mastered these in the home-school. Young men who come to the winter short-courses are estopped from profiting as they should by the lectures—popular as these are made—owing to unfamiliarity with the terminilogy of elementary agriculture and biology, the Normal College, on the other hand, we are obliged, as remarked above, to strong especially in those departments where the public schools are weak. Consequently, in this institution we follow a curriculum which in ideal conditions must be regarded as ill-balanced. This state of affairs cannot quickly be corrected.

The public, we believe, is coming to realize that the permanent corrective to the facilities of elementary education is not to be found in cultivating merely the formal at any rate, have already expressed themselves as desirous of modifying the content of school studies in favor of that nature-study which lies at the basis of successful horticulture and which provides in the common school a distinctly vocational element inherent in a study admittedly fascinating and cultural. The presence of this unless a serious and protracted preparation of teachers to administer it is afforded in the high school as well as the common school grades. The same may be said of teachers to those elements of science whose intelligent comprehension is important to those elements of science whose intelligent comprehension is important for skilled handicraft and housewifery. There should be no abandonment by those students who propose to enter the calling of the teacher. In short, I would repeat with what emphasis I can my former recommendation to make one science subject in each grade of the high school imperative for those seeking a teacher's pass certificate.

highly appreciated and honored supervisor of the schools of the City fession, says:

In Halifax the Provincial Government has established an excellent system of which are so deservedly popular.

The results will be still better when the public schools become organically related to them and when the work of the common schools will be as in Germany, to
some extent a preparation for those continuation schools.

While in other countries educational systems are being gradually adapted to our modern civilization it seems strange that, among some Nova Scotians, there languages to be an ultra-conservatism, that would emphasize the teaching of the ancient capped in order that a few theological students and others might not be handimended in their traditional studies. In fact, it was in one or two instances recomtat, for a presumptive advantage to a small minority entering special professions, over 2000 boys and 3500 girls, who are not now taking Latin, would be compelled to acquire that knowledge and practical command of their physical, industrial, and social environment necessary for fair success in life and for social efficiency.

"It is too late in the day of educational progress to load the dice in favor of classical as against the modern element of our secondary school curriculum.

The dead languages have little productive value outside the professions and often little more than a conventional value within them. The demand for compulsory, Latin and Greek certainly does not come from the great mass of industrial and tax-paying patrons of our school and colleges. To a considerable extent it comes, directly or indirectly, from those engaged in teaching them.

For the teaching of the traditional subjects, and for the preparation of students for college, we have now in the Academy a superior class of teachers. The Academy is central for a majority of those who can afford a college education, tho, perhaps, not large enough to accommodate all the pupils without overcrowding in some of the classes.

But we need in another locality another type of high school that will "especially promote the discovery and development of each pupil's dominant interests and powers; and further, it should seek to render these interests and powers subservient to life's serious purposes, to self-support and to social service." Bloomfield school would be an admirable center for such an institution, and we might expect Principal Brunt who has just returned from a year's study of the German schools to be an ideal director.

#### IN ENGLAND, UP-TO-DATE.

Syllabus of the Preliminary Examination for the Elementary School Teachers' Certificate In England for 1913.

(7)—(a) Candidates who pass Part I. are not required to apply for permission to attend Part II. A Form conveying the Board's permission will be sent in due

course.

Candidates who have passed Part I. of the Preliminary Examination for the Certificate in 1907 or any later year and are therefore qualified for admission to Part H. without taking Part I., must, like all other candidates, comply with the requirements of Regulations (7) and (6). quirements of Regulations (5) and (6). A Form conveying the Board's permission to attend Part II will then be continuous. to attend Part II. will then be sent in due course.

(8)—(a) In Part I. all candidates will be examined in Reading, Composition, manship, Arithmetic Drawing and Thomas 124 Penmanship, Arithmetic, Drawing, and Theory of Music. Girls will also be examined in Needlework. in Needlework.

(b) In the case of Internal candidates a Certificate of Proficiency in Reading, given by the Head Master or Mistress of their Secondary School or Pupil-Teacher Centre, will be accepted in place of a test b

Centre, will be accepted in place of a test by the Inspector in that subject.

External candidates will be examined in Reading by the Inspector as a rule notice. at some time during the four weeks preceding the written examination. Due notice will be given of this test.

will be given of this test.

(c) In Part II. all candidates will be examined in English Language and Literal History, and Geography Candidates ture, History, and Geography. Candidates must also take one or more of the following Optional Subjects:—Elementary Mark lowing Optional Subjects:—Elementary Mathematics, Elementary Science, Latin, Greek, French, German, Welsh, Hebron, N. Greek, French, German, Welsh, Hebrew. Not more than two Languages may be taken. taken.

(9)—(a) All candidates who (i) satisfy the requirements as to Reading, (ii) in a satisfactory aggregate of marks in Part 1 obtain a satisfactory aggregate of marks in Part 1, as a whole, and (iii) reach a certain standard in Arithmetic and Composition will in

standard in Arithmetic and Composition, will be considered to have passed Part I.

(b) All candidates who obtain a satisfactory aggregate of marks in Part II.

will be considered to have passed Part II. and the Composition of marks in Part III. will be considered to have passed Part II. and the Examination as a wholemarks for one Optional Subject only are included in this aggregate and a candidate cannot gain additional marks by taking a second (). cannot gain additional marks by taking a second Optional Subject. If a candidate takes more than one Optional Subject, the marks for the one in which he does best are included in the aggregate.

## Syllabus of the Certificate Examination of the Board of Education for teachers in Elementary Schools, England, for the year 1913.

- 5.—(a) Before a candidate can be recognised as a Certificated Teacher, he must satisfy the Board as to his age and physical capacity in the manner prescribed by the Elementary School Teachers Superannuation Rules, 1899.
- tion (b) A Registrar's Certificate of Birth must accompany the candidate's applicadmission to the Examination.
- (c) All candidates who pass the Examination must be medically examined by one of the Medical Officers nominated by the Board for the purpose. Instructions will be sent to each successful candidate, together with a list of the Medical Officers. Candidates will be required to select one of the doctors on the list and to arrange for their examination by the one selected between the date of the issue of the results and the 30th April 1914. The list contains the names of some Women Doctors. The fee for the examination, which is 10s. 6d., must be paid by the candidate. The doctor will forward the report of the examination direct to the Board.
  - 6 The following subjects are included in the Examination:-

Section A .- Reading and Practical Teaching.

#### GROUP 1.

Section B .- Principles of Teaching.

C.— Music. D.— Drawing.

E. - Needlework (for Women Only).

#### GROUP II.

Compulsory.

Section F.— English Language, Literature, and Composition. G.— History and Georgaphy.

#### GROUP III.

Section H. — Elementary Mathematics (including Arithmetic).
I. — Elementary Science.

#### GROUP IV. (Optional).

Section
Section
J.— A Language other than English approved for the purpose by the Board.
K.— A Language other than English approved for the purpose by the Board.

Section L .- Hygiene and Physical Training (see Regulation 10).

- tified Efficient Schools, or Certified Schools for Blind, Deaf, Defective, or Epileptic immediately preceding the Examination, or who have been students in Training Colleges and have failed in their Final Examination, and in either case have not been Teaching, will not be tested in these subjects. Such candidates will be considered to have complied with the requirements of Section A. Other Candidates will be sent to them when they are admitted to the Examination.
- \*\*satisfactory aggregates of marks in each of the Groups L., II., and III., and in these Groups combined, will be considered to have passed the Examination.

- 9. Candidates will be informed individually of the result of their examination. As soon as possible after the Examination, a general Result List will be published, in which the names of candidates who have passed the Examination will be arranged in alphabetical order without classification. Appropriate marks will be placed in the Result List against the names of candidates who obtain distinction in Section B, C, D, F, G, H, I, J, K, or L, and also against the names of candidates who pass in Section J, K, or L. without obtaining distinction.
- 10.—(a) No candidate will be eligible for examination by the Board in Hygiene and Physical Training unless he is shown to the satisfaction of the Board to have attended an approved Course of Physical Training at some time during the period between August 1st, 1911, and November 30th, 1913. The following conditions must be satisfied in the case of any Course which is proposed for approval for this purpose:—
  - (1) The Course must be conducted by a teacher fully qualified to interpret the principles of the Swedish system of Physical Exercises as set out in the Board's Syllabus.

(2) The Course must include not less than 40 hours' instruction, and must (unless alternative arrangements are specially approved by the Board)

extend over a period of not less than six months.

(3) Application for the recognition of the Course for the purpose of this Regulation must be made to the Board not later than 1st January, 1913. In making the application it should be stated whether recognition of Course is also desired under the Regulations for Technical Schools, &c.

(b) Candidates will be tested partly by a written examination in Hygiene and the Theory of Physical Exercises, which will be held with the main part of the examination in December, and partly by a practical test in Physical Exercises, which will be conducted by an Inspector of the Board at the Class in which the candidate is receiving instruction.

# Journal of Education.

Published at Halifax, Nova Scotia, 11th May, 1912.

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(To be handed promptly on its receipt by the Secretary of every School Board to each Teacher

## 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 trying the time provided for the purpose of aiding teachers to interest their pupils in First, it observing the times of the regular procession of natural phenomena each season. First, it can be the times of the regular procession of natural phenomena each season. First, it can be the times of the regular procession of natural phenomena each season. First, it can be the times of the regular procession of natural phenomena each season. First, it can be the times of the regular procession of natural phenomena each season. First, it can be the times of the regular procession of natural phenomena each season. may help the times of the regular procession of natural phenomena each season. ruse, we secondly, it may aid in procuring valuable information for the locality and province. Two broads are provided for such tasks who wishes to conduct such observations, one to be sopies are provided for each teacher who wishes to conduct such observations, one to be reference from year to year; the other to be preserved as the property of the section for reference from year to year; the other to be sent in with the property of the section for who will transmit it to the Superintendent for Sent 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, ering and family distributions. What is desired is to have recorded in these forms, the dates of the just learner, stating and fruiting of plants and trees; the first appearance in the locality of birds mistiven so as to enable account in autumn, etc. While the objects specified here are the so as to enable account to be made between the different sections of the Proposition to be proposition. given so as to enable comparison to be made between the different sections of the Province, it is very desirable that other local phenomena of a similar kind be recorded. Every locality has a general that other local phenomena of a similar kind be recorded. Every has a general that other local phenomena of a similar kind be recorded. Every has a general that other local phenomena of a similar kind be recorded. locality has a flora, fauna, climate, etc., more or less distinctly its own; and the more of trees that, fauna, climate, etc., more or less distinctly its own; and the more are those which will be most valuable from a common trees, shrubs, plants, crops, etc., are those which will be most valuable from a point of view of punils.

local 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 the characteristics of a series of seasons.

The characteristics of a series of seasons.

In observing all notions of the most convenient means for the stimulation of pupils that the characteristics of a series of seasons.

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The characteristics of a series of seasons. h observing all find it one of the most convenient means for the stimulation of pupping radiate as far as two miles from the school room. The "nature study" under these contagons would thus be madertaken at the most convenient time, without encroaching on the school room. duste as far as two miles from the school room. The "nature study" under these last on school times be mainly undertaken at the most convenient time, without encroaches on school times be mainly undertaken at the most convenient time, without encroaches school school times be mainly undertaken at the most convenient time, without encroaches the most value of the most value. thions would thus be mainly undertaken at the most convenient time, without encroaven-school time; while on the other hand it will tend to break up the monotony of she forms of educational discussions hour with interest, and be one of the most valu-whole the forms of educational discussions. The eves of a whole school daily passing over a whole school sectional discipline. The eyes of a whole school daily passing over a such as school sectional discipline. The eyes of a whole school daily passing over a such as school sectional discipline. whole school daily passing over the school daily passing over the school section will let very little escape notice, especially if the first observer of year annually receives credit as the first observer of it for the sach annually recurring phenomenon receives credit as the first observer of it for the most. The observer as the facts must be demonstrated by the The observations will be acurate, as the facts must be demonstrated by the indoubted continuous the school when nost undoubted evidence, such as the bringing of the specimens to the school when or necessary. possible or necessary.

To all observers the following most important, most essential principles of recording than a wrong one or a DOUBTFUL one. To all observers the following most important, most essential principles of recording sports out of season that no date, no record, than a wrong one or a nountful one. The date to be recorded to very local conditions not common to at least a small field, posses of the first of the many of its oports out of season due to very local conditions not common to at least a small near, local not be recorded except parenthetically. The date to be recorded for the puriod following immediately after it. For instance, a butterfly emerging from its chrystian a sheltered cranny by a southern window in January would not be an indication of the possible of the possible possible of the possible possible of the possible alis in following immediately after it. For instance, a butterfly emerging from its curys of the a skeltered cranny by a southern window in January would not be an indication when the general climate, but of the peculiarly heated nook in which the chrysalis was when the property of the peculiarly heated nook in which the chrysalis was when the peculiarly heated nook in which the chrysalis was when the peculiarly heated nook in which the chrysalis was then the peculiarly heated nook in which the chrysalis was when the peculiarly heated nook in which the chrysalis was not been the peculiarly heated nook in which the chrysalis was then the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the chrysalis was the peculiarly heated nook in which the peculiarly heated nook in which the peculiarly heated nook in which the peculiarly heated nook in which the peculiarly heated nook in which the peculiarly heated nook in which heated nook in which heated nook in which heated nook in which heated nook in which heated nook in which heated nook in which heated nook in which heated nook in w whelte general climate, but of the peculiarly heated nook in which the chrysans was whether the chimate, but of the peculiarly heated nook in which the chrysans was when the chimate, but of the peculiarly heated nook in which the chrysans was the chimate, but of the peculiarly heated nook in which the chrysans was the chimate, but of season occur, they might also be recorded, but within a paragram. eathesis 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 the Fall (June to December respectively).

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

The new register has a page for a duplicate of such records. the head of the schedule on the next page; for if either the date or the locality or the schedule on the next page; for if either the date or the locality or the be bound in for page; and the volume of the Phenological Observations. be bound up for preservation in the volume of The Phenological Observations.

May by the aid of the table given at the top of pages 3 and 4, the date, such as the 24th of last day of the year," by adding the day of the year," by adding the day of the preceding worth (April in this case), thus: 24+120=144. The annual case of the preceding worth (April in this case), thus: 24+120=144. with day of the year," by adding the day of the month given to the annual date or attempt be briefly recorded and it is 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 that in phenological data when the compiler is quite certain that he or she when the compiler is quite certain that he or she in the certain that he certain the certain Averaged in phenological studies. When the compiler is quite certain that he or she convenience the convenience to the convenie the ged in phenological studies. When the compiler is quite certain that he or built be conversion without error, the day of the vear instead of the day of the be preferred. Month will be preferred in recording the dates.

## PHENOLOGICAL OBSERVATIONS, CANADA. (1911 SCHEDULE.)

	(1911 Schedule.)		
Pro Loca	(For the months July to December, 19; or the months Jarvince		
vati coas Slop Gen Prop Doe or st	[The estimated length and breadth of the locality within which ons were made	the follistance	owing observed from the sea feet.
The	most central Post Office of the locality or region		
	ME AND ADDRESS OF THE TEACHER OR OTHER COMPILER OF THE OBSERVATIONS RESPONSIBLE FOR THEIR ACCURACY	When First Seen	When Becoming
7)	WILD PLANTS, ETC.—NOMENCLATURE as in "Spotton" or "Gray's Manual").		
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 111. 112. 113. 114. 115. 116. 117. 118. 119. 20. 21. 22. 23.	Alder (Alnus incana), catkins shedding pollen.  Aspen (Populus tremuloides).  Mayflower (Epigæa repens), flowering.  Field Horsetail (Equisetum arvense), shedding spores.  Blood-root (Sanguinaria Canadensis), flowering.  White Violet (Viola blanda), flowering.  Blue Violet (Viola palmata, cucullata), flowering.  Hepatica (H. triloba, etc.), flowering.  Red Maple (Acer rubrum), flower shedding pollen.  Strawberry (Fragaria Virginiana), flowering.  """ fruit ripe.  Dandelion (Taraxacum officinale), flowering.  Adder's Tongue Lily (Erythronium Am.), flowering.  Gold Thread (Coptis trifolia), flowering.  Spring Beauty (Claytonia Caroliniana), flowering.  Ground Ivy (Nepeta Glechoma), flowering.  Indian Pear (Amelanchier Canadensis), flowering.  """ fruit ripe.  Wild Red Cherry (Prunus Pennsylvanica,) flowering.  """ fruit ripe.  Blueberry (Vaccinium Can. and Penn.), flowering.  """ fruit ripe.  Tall Buttercup (Ranunculus acris), flowering.		
24. 25. 26 27	Creeping Buttercup (R, repens) flowering.  Painted Trillium (T. erythrocarpum), flowering.  Rhodora (Rhododendron Rhodora), flowering.  Pigeon Berry (Cornus Canadensis) florets opening.		

## PHENOLOGICAL OBSERVATIONS—(Continued).

-	PHENOLOGICAL OBSERVATIONS—(Contin	ued).	
	Day of year corresponding to the last day of each month.  Jan. 31 April 120 July 212 Oct. 304	When First Seen	When Becoming Common
	M. 59 May 151 Aug. 243 Nov. 224	E S	% H
Fo	FLEAR 90 June 181 Sept. 273 Dec. 365	8 27	සුරි
/	Pigeon P. June 181 Sept. 273 Dec. 365  Pigeon P. Pigeon P. P. Pigeon P. Pige	1 🕏	μ. Α. βα
38.	Piggo, P		P.5
19.	Pigeon Berry (Cornus Canadensis), fruit ripe	.	
<b>3</b> 0,	Star Flower (Trientalis Americana), flowering  Manager (Clintonia horealis) flowering		
31.	Clintonia (Clintonia borealis), flowering  Marsh Calla (Calla palustris) flowering		
32,	Marsh Calla (Calla palustris), flowering  Lady's Slipper (Cypripedium acaula), flowering	.	
33.	Lady's Slipper (Cypripedium acaule), flowering.  Blue-eyed Grass (Sisyrinchium ang.), flowering.		
34,	Blue-eyed Grass (Sisyrinchium ang.), flowering Twinflower (Linnæa borealis).		
35.	Twinflower (Linnæa borealis),  Pale Laurel (Kalmis glaves), florvering.  "		
36,	Pale Laurel (Kalmia glauca), flowering.  Lambkill (Kalmia angustifojia).		
37.	Lambkill (Kalmia glauca), flowering  English Hawthorn (Crategus oxyacantha), flowering		
38.	English Hawthorn (Crategus oxyacantha), flowering Scarlet fruited Thorn (Crategus coccinea). "		
39.	Blue Truited Thorn (Cratagus coccinea). "		
40,			
41,			
42,	Yellow Pond Lily (Nuphar advena), flowering.  Raspberry (Rubus strigosus), flowering		
13.	Raspberry (Rubus strigosus), flowering		
44.	Yellon " " fruit ripe		
15.	High D. Rattle (Rhinanthus Crista-galli), flowering		
46,	Yellow Rattle (Rhinanthus Crista-galli), flowering  High Blackberry (Rubus villosus), flowering		
47.	High Blackberry (Rubus villosus), flowering  ""  Fitcher ""  ""  ""  ""  ""  ""  ""  ""  ""  ""		
48,	Heal A. (Sarracenia purpurea), flowering		
49.	Pitcher Plant (Sarracenia purpurea), flowering		
10.	Common Wild Rose (Rosa lucida),  Fall Dandelion (Leontodon autumnolo)		
21.	Fall Dandelion (Leontodon autumnale),  Butter-and-Eggs (Lungia vulcaria)		
25'	Butter-and-Eggs (Linaria vulgaris),  Expanding leaves in spring mode trees appear green-(a) first	j i	
	Expanding leaves in spring made trees appear green-(a) first tree, (b) leafing trees generally.		
	tree, (b) leafing trees generally.	ĺ	
		-	
<b>33</b> .	Red C. (CULTIVATED PLANTS, ETC.)		
54, Ka	" (Ribes rubrum), flowering		
55,	Red Currant (Ribes rubrum), flowering	,	
56.	"(Ribes pigrum) flowering		
57.	Black Currant (Ribes nigrum), flowering  Cherry (Prunus Cerasus), flowering  Plum (Prunus Cerasus), flowering  fruit ripe		
58.	" Lunus Corneus) Howaring	i	
49. 60.	Plum (Prunus domestica), flowering  Apple (Pyrus Malus), flowering.  Lilac (Syring.		
61.	April (""" domestical flowering		
62	Lilac (2 Yrus Malus), flowering		
63.	White William with A arresting		
64.	Wed On " " I I Pitolium manana) Howering		
65.	Thou of (Trifolium protongo)		
٠,	Potato (Schleum pratense), "		*
	Potato (Solanum tuberosum).		.*
66,			
67.	Plowing (FARMING OPERATIONS BONG)		
68,			
٠,۵	Planting of P		
	Planting of Potatoes begun		
	DERRIT	1	

### PHENOLOGICAL OBSERVATIONS—(Continued).

70. 71. 72.	Shearing of Sheep  Hay Cutting  Grain Cutting.  Potato Digging.  (Meteorological Phenomena.)	(a)	(b)
73. 74. 75. 76. 77. 78. 79. 80.	Opening of (a) Rivers, (b) Lakes without currents  Last Snow (a) to Thiten ground, (b) to fly in air  Last Spring Frost (a) "hard" (b) "hoar"  Water in Streams, Rivers, &c., (a) highest, (b) lowest  First Autumn Frosts, (a) "hoar" (b) "hard"  First Snow (a) to fly in air, (b) to whiten ground  Closing of (a) Lakes without currents, (b) Rivers  Number of Thunder Storms (with dates of each)  an ,Feb , Mar , A	Apr	,Мау
* * * *			
1	Day of year corresponding to the last day of each month.  Ian. 31. April 120. July 212. Oct. 304.  Feb 49. May 151. Aug. 243. Nov. 334.  March 90. June 181. Sept 273. Dec. 365.  LEAP years increase each number except that for January by 1	Going North or coming in Spring.	Going South or leaving in Fall.
81. 83. 85. 86. 87. 88. 89. 91. 993. 994. 995.	(MIGRATION OF BIRDS, ETC.)  Wild Duck migrating  Song Sparrow (Melospiza fasciata)  American Robin (Turdus migratorius)  Slate coloured Snow Bird (Junco hiemalis)  Spotted Sand Piper (Actitis macularia)  Meadow Lark (Sturnella magna)  Kingfisher (Ceryle Aleyon)  Yellow Crowned Warbler (Dendræca coronata)  Summer Yellow Bird (Dendræca aestiva)  White Throated Sparrow (Zonotrichia alba)  Humming Bird (Trochilus Colubris)  King Bird (Tyrannus Carolinensis)  Bobolink (Dolchonyx oryzivorous)  American Gold Finch (Spinus tristis)  American Redstart (Setophaga ruticilla)		

101. Senecio Jacobaea (St. James Ragwort); Is it found within the school seeding.

If so, to what extent? etc.

102. The Brown Tail Moth, etc.