## JOURNAL

## OF

## EDUCATION

${ }^{\text {Being The semi-annual supplement to the report of }}$ THE SUPERINTENDENT OF EDUCATION FOR

## NOVA SCOTIA.

## APRIL, 1910.



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(Staff. Moore, M. A., Principal.
Professors of Normal and Agricultural Colleges and special instructors.)

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## To Teachers employed in the Public Schools for the half year ended, Feb. 4th, 1910.

The Asterish (*) marks those employed in Poor Sections.

| Number of Teaching |
| :---: |
| Days employed. |

Am't paid to Teach-
ers from Provincial
Treasury.

## ANNAPOLIS.

| Lyons, Nellie B. | 96 | 8472 |
| :---: | :---: | :---: |
| Magee, Wm. H. | 96 | 9881 |
| Ruggles, Lenfest | 102 | 10500 |
| Atwood, Alice J. | 102 | 6000 |
| Balcom, Irene C. | 97 | 5706 |
| Banks, Beriah S. | 102 | 6000 |
| Banks, Wilford E. | 102 | 7500 |
| Bishop, Annetta, C . | 102 | 60 00 |
| Burbidge, Josephine G. | 102 | 6000 |
| Bustin, Harry L. | 102 | 6000 |
| Chipman, Enma W. | 102 | 6000 |
| Chute, Frances L. | 82 | 4823 |
| Corkum, Inez B. | 73 | 4294 |
| Cossett, Ethel J. | 102 | 6000 |
| Crisp, Wm. K. | 97 | 5706 |
| Eaton, Ethel M. | 102 | 6000 |
| Elliott, Ora B. | 1012 | 5970 |
| Gesner, P. Agnes. | 102 | 60) 00 |
| Gilliatt, M. Esther | 102 | 6000 |
| Gilliatt, Mary L. | 102 | 6000 |
| Graves, Ena E. | 102 | 6000 |
| Hardwicke, Helen M. | 102 | 60 00 |
| Harris, C. Louise. | 97 | 5706 |
| Hunt, G. Edgar. | 102 | 6000 |
| Lockward, Grace E. | 101 | 5941 |
| Long, Alma C . | 102 |  |
| Longley, Ella F. | 102 | 6000 |
| Longley, Annie M. | 20 | 1176 |
| Longley, Reginald A. | 58 | 3412 |
| Martin, Jemnie V. | 102 | 6000 |
| McGill, Flora M, | 101 | 5941 |
| McGill, George B. | 97 | 9985 |
| McGregor, Ruperta. | 102 | 6000 |
| McMillan, Nellie. | 97 | 5706 |
| McMurtery, Haidee P. | 59 | 3471 |
| MeWhinnie, Lizzie. | 102 | 6000 |
| Messinger, Wm. S. | 67 | 3941 |
| Moore, E. Blanche. | 102 | 6000 |
| Morse, Edith M. | 97 | 5706 |
| Roy, Lida J. | 97 | 5706 |
| Spinney, Hattie S. | 102 | 6000 |
| Spinney, Theo. H. | 102 | 6000 |
| VanBuskirk' John L. | 102 | 60 00 |
| Walker, Charlotte L. | 99 |  |


|  | $10^{2}$ | 6000 |
| :---: | :---: | :---: |
| Woodbury, Mabel M. | 102 | 60 |
| Woodward, Lola M. | 102 | 60 |
| Woodworth, B. May. | 102 | 438 |
| Anderson, Emice M. | 993 | 450 |
| Banks, Ameda M. | 102 | 45 |
| Bent, Blanche J. | 102 | 6 |
| Bertaux, A, Josephine. | 14 | 450 |
| Bowlby, L. May S. | 102 | 4500 |
| Brown, Mertie 33. | 102 | 42 |
| Buckler, Emily J. | $95^{2}$ | 450 |
| Chesley, Ela M. | 102 | 4500 |
| Chute, Flossie H. | 102 | 450 |
| Corning, Nellie R. | 102 | 450 |
| (rowe, Bessie II. | 102 | $4{ }^{4} 0$ |
| Dakin, Ellery, (a. | 102 | 35 |
| Denton, B. Mildred. | 80 | 4500 |
| Ellis, Florence M. | 102 | 4500 |
| Foster, L. Winnifred. | 102 | 450 |
| Gaul, Ethel. | 102 | 4500 |
| Gesuer, Annie I. | 102 | 4500 |
| Hoyt, Bessie (G. | 102 | 45.40 |
| Jackson, Annie L. | 102 | 19 |
| Kempton, Susie W. | 44 | 44 |
| Kimney, Rowena J. | 100 | 60 |
| Lee, Fata B, | 14 | 2200 |
| Lougley, Annie G. | 50 | 45 |
| Longmire, Rosa T . | 102 | 4478 |
| MeCormack, Albert E. | 101 | 4238 |
| Mills, Hattie ( A . | 97 | 218 |
| Morse, Nellie C. | 48 | 4500 |
| Nichols, Leon L. | 1012 | 4000 |
| Oakes, Cynthia L. | 102 | 4500 |
| Payson, Mary P. | 102 | 4598 |
| Perry, Lydee S. | 102 | 2957 |
| Phinney, Josephine W. | 68 | 25.8 |
| Purdy, Ethel M. | ${ }_{97} 8$ | $4^{2} 500$ |
| Roy, Maud E. | 97 102 | 4500 |
| Ruggles, Florence L. | 102 | 4578 |
| Rannsey, Clara I. | 102 97 | 4200 |
| Simith, B. Evelyn. | 97 102 | 4500 |
| Sproule, A. DeLila. | 102 | 4500 |
| Spurr, Amie M. W. | 102 | 4500 |
| Spurr, Hortense, V. B. | 102 | 4500 |
| Starratt, Mildred M. | 102 | 450 |
| Stevenson, Margaret B. | 102 | 4500 |
| Thorne, Alice IL. | 102 | 4500 |
| 'Troop, Bessie L. | 102 | 420 |
| Ward, Mary J. S. | 97 | 450 |
| Whitman, Minnie C. | 102 | 36 |
| Woodman, Edith E. | 82 | 30 |
| Wotton, Jennie R. | 102 | 3000 |
| Adams, Mildred L. | 102 | 3083 |
| Andrews, C. Lester. | 102 | 28.1 |
| Armstrong, Georgie E. | 98 | 340 |
| Baker, Hallie J. | 88 | 26 |
| * Baltzer, Annie B. | $90^{\frac{1}{2}}$ | 100 |
| Banks, Ida B. | 5 | 40.1 |
| Beardsley Joseph D. | 102 | 2900 |
| * Berry, Ella M. | 101 | 408 |
| Bowlby, Jessie I. | 102 | 220 |
| * Brinton, Birdie $P$. | 78 | 3000 |
| Jrooks, Estella M. | 102 | 3059 |
| Caldwoll, Jola I. | 102 | 25.3 |
| Charlton, Mabel E. | 87 | 18 |
| Crowell, Iona M. | 47 |  |
| * Denton, E. May. |  |  |


| *DeVany, Grace D | 102 | 4000 |
| :---: | :---: | :---: |
| Durland Estella S. | 23 | 676 |
|  | 102 | 3000 |
| * rellick, M C . | 80 | 2353 |
| Gresher, Edwra M. | 102 | 4000 |
| $\mathrm{H}_{\text {arorer }}$, Jeawett D. | 98 | 3843 |
| $\mathrm{H}_{\text {aye }}$ Pris, Lury E M. | 102 | ${ }_{29} 00$ |
| * Hesb, Evangeline | 1014 | 2985 |
| Hilt ${ }^{\text {a }}$, Maud C . | 101 | 3568 |
|  | 100t | 29.50 |
| 4e, Murtery Lena M. | 102 | 3000 |
| Patchell, Stildred L. | 37 | 1088 |
| Parker, Hetrah J. | 62 | 2431 |
| Robiney, Ane E. | 102 | 3000 |
| ${ }^{2} \mathrm{~b}$ inson, Annie M. | 102 | 3000 |
| Souggles, stewart I. | 102 | 3000 |
| Spaftrer, Anie B. | 102 | 40 00 |
| Troule, Lenrgaret B. | 4 | 117 |
| Todd, Lena M. | 20 | 588 |
|  | 102 | 4000 |
| Whest, Marg enerine. | 54 | 2117 |
| ${ }^{*}$ Weelock, Maret 0. | 102 | 4000 |
| *Witman Mildred E. | 102 | 3000 |
| Whitron, Annie S. | 78 | 3059 |
| Winclear, Viola B. | 69 | 2706 |
| chester, Ruth. | 20 | 588 |
| , Ruth H. | 102 | 3000 |


| Annutiants. |  |
| :---: | :---: |
| brown, Samuel C | 7500 |
| Vimm, Alfed D. | Gi0 00 |
| donito, Henry. | 6000 |
| Bares, Waten A. | 6000 |
| ers, Arthon | 4500 |
| Arthur W | 4500 |



| McKeough, Anna. | 101 | 4456 |
| :---: | :---: | :---: |
| McNeil, Florence. | 102 | 45) 00 |
| McNeil, Margaret. | 102 | 4500 |
| McPherson, John A. | 102 | 4500 |
| McPherson, Alex. | 90 | 3969 |
| Rogers, William J. | 78 | 3440 |
| Sister St. Camillars. | 102 | 4500 |
| Sister St. Walburga. | 102 | 4500 |
| Sister St. Hugh. | 102 | 4500 |
| Sister M. Dionysia. | 102 | 4500 |
| Sister M. Irene. | 102 | 4500 |
| Young, Julia llorrie. | 97 | 4278 |
| Barrigan, Lila. | 101 | 2971 |
| ( Mnelhohn. Margaret A. | 102 | 3000 |
| (hisholm, Edmund A. | 102 | 3000 |
| Chisholm, Catherine M. | 93 | 36. 47 |
| Cameron, Jennie. | 101 | 2971 |
| Cameron, Dan A. | 88 | 34.51 |
| Camplell, Mary. | 102 | 3000 |
| Connors, M. Clarence. | 102 | 3000 |
| Fraser, William. | 57 | 1676 |
| Fitzgerald, Amie. | 102 | 3000 |
| Gillis, Margaret. | 96 | 2824 |
| Gillis, Margaret. | 97 | 28.53 |
| Gillis, Sarah. | 93 | 3647 |
| Gillis, Sarah Belle. | 102 | 3000 |
| Gillis, May. | 89 | 2618 |
| Hurst, Essie. | 93 | 3647 |
| Hay Marv Ann. | 51 | 2000 |
| Leydon, Anastasia. | 102 | 3000 |
| Levandier, William R. | 100 | 2941 |
| Martin, Ellen. | 97 | 3804 |
| McArthur, Janet. | 102 | 3000 |
| Mactonald, Mary (\% | 99 | 2912 |
| Macdonald, Anna Belle. | 92 | 2706 |
| Macdonald, Ammie J. | 102 | 3000 |
| Macdonald, Eva. | 102 | 3000 |
| Macdonald, Laura 13. | 102 | 3000 |
| Macdougall, Florence M. | 101 | 2971 |
| McEachern, Elizabeth. | 102 | 3000 |
| MeGillivaly, Mary. | 102 | 3000 |
| Megillivaly, Mary A . | 102 | 4000 |
| MeGillivay, Mareella. | 102 | 4000 |
| Mectillivray, Bessie A. | 14 | 5) 18 |
| Mefillivay, Mary. | 97 | 28.83 |
| Mefillimay, Margaret. | 19 | 5.99 |
| Melntosh, fertrucle. | 87 | 25.5 |
| MeImmis, Margarel. | 93 | 3647 |
| Mchean, Mary B . | 101 | 2971 |
| McLean, Katherine. | 10: | 3000 |
| McNeil, Vincent. | 93 | 2736 |
| McPherson, Lauretta. | 88 | 3451 |
| Purcell, Margaret E. | 102 | 3000 |
| Sutton, Katherine E. | 97 | 28.33 |
| Stewart, Laura J. | 71 | 2784 |
| Somers, George T. | 90 | 35.89 |
| Sister St. Thomas de S. C |  |  |
| Sister St ( Helen. | 102 |  |
| Consolidated section | 102 | 3000 3000 |
| Annutiants. |  |  |
| Chisholm, Alexander. |  | $7500$ |
| Gillis, Angus. Mectillivray, Andrew. |  | 60 00 |


|  |  |
| :--- | :--- |
| Boyd, Angus A. | 4500 |
| Bonin, John B. | 4500 |
| Fraser, William. | 4500 |
| Macdonald, Donald. | 3000 |

Assistants.

| McPherson, Hugh. | 86 |
| :--- | :--- |
| Coady, Moses J. | 86 |

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| MacLennan, Florence B. | 97 |
| :--- | ---: |
| McMillan, ,adie N. | 102 |
| MacNeil, Jennie E. | 97 |
| Moore, Andrew K. | 102 |
| Morrison, Alexander B. | 102 |
| Morrison, Eva J. | 78 |
| Parker, Lillian C. | 97 |
| Schurman, Sadie. | 97 |
| Sin |  |

Simpson, Annie O. P. 100
Sister M. Alonzo. 54
" " Amabilis. 98
" " Ambrosia. 102
" "Andrea. Anette. 101
" Clarissa. 102
$\begin{array}{ll}\text { " Cleophas. } & 101 \\ \text { " } & 102\end{array}$
$\begin{array}{ll}\text { " Concepta. } 102 \\ \text { " Edwina. } & 102\end{array}$
$\begin{array}{ll}\text { " Gerard. } & 102 \\ & 101\end{array}$
$\begin{array}{ll}\text { " Josita. } & 101 \\ \text { " Lawrence. } & 102\end{array}$
$\begin{array}{lr}\text { " Lawrence. } & 107 \\ 97\end{array}$
"St. Bernard.
"M. Aloysius.
" Mary Âsc.
"Teresa Joseph.
Smith, Gertrude O. 101
Sutherland, Mary.
90
Thurber, Ronald E.
102
$\begin{array}{ll}\text { Titus, Lawrence L. } & 102 \\ \text { Wilton, Richard } T & 101\end{array}$
Woodill, Arthur W. $\quad 97$
Bruce, Alice A. 93
Buckles, Sara.
Burke, Helena B.
Cameron, Annie.
Cameron, Mary C.
Cann, Lillian.
Clarke, Elizabeth I.
Currie, Donald J
Currie, Teresa.
Curry, Alice B.
Demnis, Agnes M.
Douglas, Ired A.
Jouglas, Havelock G.
Downing, Florence C.
Doyle, Agnes C. M.
Fox, Edith I.
Fraser, Lulu F.
Fife, Magdalen M.
Gillis, Jennie M.
Gillis, Margaret.
Graham, Bessie F.
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| :---: | :---: | :---: | :---: | :---: | :---: |
| $4_{\text {fac }}$ nald, Jean F. | 97 | 4278 | Camplell, Florence M. | 94 | 2765 |
| $H_{\text {hed }}$ nald, ${ }^{\text {ala }}$ | 102 | 4500 | Campbell, Maude L. | 7 | 206 |
| Yaconald Nellie | 97 | 4278 | Carlin, Mary M. | 97 | 2853 |
| Mcinnell, ', Shie E. | 102 | 4500 | Carmichael, Jessie | 102 | 3000 |
| McInnis, $\mathrm{D}_{\text {O }}$ Theresa. | 101 | 4456 | Coady, Margaret A. | $\cdot 90$ | 2647 |
| Mel ntosh, Marea J. | 102 | 4500 | Crewe, Myra A. | 102 | 3000 |
| Mclotosh, Margaret E. | 99 | 4366 | Dillon, Agnes $\mathbf{W}$. | 102 | 3000 |
| Mcintyre, Matitaret S . | 101 | 4456 | Downing, L. Minnie | 82 | 2412 |
| Madae, Marealda. | 97 | 4278 | Ergan, Carlotta | 992 | 2926 |
|  | 100 | 4411 | *Farrell, Hugh | $102{ }^{2}$ | 4000 |
| Mackenzie, Chary Jos. | 97 | 4278 | Francis, Hildred O. | 102 | 3000 |
|  | 102 | 4.500 | Gamon, Mary | 97 | 2853 |
| Mectuan, Chatie. | 102 | 4500 | *Gillis, Rose A. | 102 | 4000 |
| Mcean, S. Astine $V$. | 101 | 4456 | Gouthro, Veronica | 83 | 2441 |
| Haced, Cecities. | 101 | 4456 | Granger, Catherine I. | 5 | 147 |
| Hacreod, Tena I. | 102 | 4500 | Horton, Annie | 102 | 3000 |
| Heneil, Alena H. | 100 | 4411 | Kerr, Annic | 102 | 3000 |
| Hepheil, Annie I | 94 | 4145 | Kerr, Anmie F. | 102 | ${ }^{31} 000$ |
| Mermee, Anie 1. | 97 | 4278 | Kerr, Flora | ${ }_{80} 91$ | 2677 |
| Hilhert, Mary, | 102 | 4500 | MacCormick, Mary | 80 | 2353 |
| Hore, Elerna. | 102 | 4500 | Maconald, Cassie | 100 108 |  |
| 40rison | 102 | 4500 | Macdonald, Elizabeth | 102 | 3000 |
| Ofher, Margaret | 102 | 458 | Macloonald, Mary C. | 102 | 3000 |
| $\mathrm{Ni}^{488 a b}$, Manche. | 79 | 4500 | MeDonald, Mary J. | 102 | 3000 |
| Phiolloon Mrgaret. | 107 | 4278 | MacDonald, Minnie F. | 85 | 2500 |
| Phorpe, $\mathrm{K}_{\text {at }}$ Vanc | 101 | 4456 | McDonald, Sarah | $96 \frac{1}{2}$ | 2838 |
| Pitrat, Alice E . | 97 | 4278 | McDoumall, Mabel | 91 | 2677 |
| feld | 102 | 4500 | MacGillive 4 , Jessie | 68 | 2000 |
| Mary H. | 102 | 4500 | *McGlashen, Nan | 75 | 2941 |
| ${ }^{\text {Hat }}$ | 101 | 4456 | *McInnis, Maggie | 20 | 784 |
| enorat L . | 102 | 4500 | *MacInnis, Margaret | 93 | 3647 |
| May. | 102 | 4500 | MeIntyre, Mary E. | 91 |  |
| (er A, Marg | 97 | 4278 | Mcisaac, Margaret | 97 | 28 53 |
| - Ables Maret J. | 102 | 4500 | McIver, Lizzie | 102 | 3000 |
| $" \mathrm{Francis}^{\text {aria. }}$ | 101 | 4456 | McKenzie, John K. | 13 | 382 |
| "M. Ampleon. | 102 | 4500 | Mackenzie, Katherine | 100 | 2941 |
| " "Argeose. | 102 | 4500 | MacKenzie, Lottie | 102 | 3000 |
| " "Angelorum. | 101 | 4456 | ${ }_{*}^{\text {Mackenzie, }}$ Margaret | 102 | 3000 |
| " "Camina. | 102 | 4500 | Mackinnon, Jessie M. | 101 |  |
| " "Eulalias. | 101 | 445 | *McKinnon, Martin W. | 52 |  |
| " " Gualbert. | 101 | 4411 | MacKiunon, Sadie M. | 97 |  |
| " "Losephine. | 100 | 2116 | MacLean, Myrtle L. | 69 | 2029 |
| " "Lonard. | 101 | 4456 | Maclean, Rachael | 85 | 2500 |
| " "Luuise. | 102 | 4500 | McLellan, Mary | 61 | 1794 |
| " "Oucina. | 102 | 4500 | McLellan, Mary A. | 102 | 30) 00 |
| ". "Stepald. | 102 | 4500 | McLeod, Margaret | 100 | 2941 |
| " "Vephen. | 101 | 4456 | McLeod, Sarah | 102 | 3000 |
| " "Wilfrica. | 100 | 4411 | McMaster, John | 97 | 2853 |
| $"$ "St. Ald. | 102 | 4500 | East Bay Consolidation |  |  |
| $4{ }^{4}$ "Alexandic. | 97 | 4278 | 3 D . | 97 | 8559 |
| " ${ }^{\text {casailda }}$ ar. | 102 | 4500 | *MacMillan, Malcolm | 76 | 2980 |
| " "Menedin | 93 | 4101 | MacMillan, Victoria K. | 90 | 2647 |
| "John ${ }^{\text {dine }}$ | 102 | 4500 | McNeil, Katie J. | 98 | 2883 |
| Marce | 102 | 4500 | MacVicar, Annie | 88 | 2589 |
| ery. Reginala. | 97 | 4278 | Madower, Henrietta J. | 84 | 2471 |
| nie | 97 | 4278 | *Matheson, Flora C. | 88 | 3451 |
| ab | 12 | 529 | Mattatall, Florence | 87 |  |
| de | 102 | 4500 | Morrison, Jessie A. | ${ }_{79} 9$ | ${ }_{23} 28$ |
| n Maret ${ }^{\text {M }}$ | 43 | 1896 | Morrison, Lottie M. | 79 | 1941 |
| Prowner Ande E . | 74 | 1382 | Morrison, Margaret M. | 100 | 2941 |
| Or | 91 |  |  | 82 | 2412 |
| $1 \mathrm{D}^{\text {adows Conce } V}$ | 86 | 2530 | Nicoll, Pearl W. | 42 | 1235 |
| ${ }^{\text {ansolida }}$ |  |  | O'Handley, Joanna | 97 | 2853 |
|  | 129 | 3794 | Reid, Annie E. | 88 | 2589 |


| Ross, Margaret M. | 102 | 3000 |
| :---: | :---: | :---: |
| Sampson, Clara M. | 102 | 3000 |
| Scott, Mary A. | 102 | 3000 |
| Sister M. Thomas | 101 | 2971 |
| St. Ann | 97 | 2853 |
| " Augustine | 93 |  |
| " Frances | 97 | 2 S 53 |
| " Gregory | 97 | 2853 |
| " " Mary | 97 | 28.5 |
| Smith, Christena | 100 | 2941 |
| Stuart, John M. | 88 | 2589 |
| Sullivan, Marie | 102 | 3000 |
| Sullivan, Martha | 94 |  |
| VanTassell, Bertha S. | 102 |  |
| *Walker, Sarah B. | 67 | 2627 |
| Wallace, Jean | 102 |  |
| *Way, Henrietta F. | 753 | 2961 |
| *Wilmot, Mary | $7{ }^{\text {\% }}$ | 2980 |

## Anvertants.

McLDonald, Joseph
Garrett, Charles V.
McDougall, Philip
McMillan, Fanny
Assistants.
Macdonald, Joamia
1902

## (OLCHLSTER.

## South Colchester.

| Archibald, G. Ci. | 97 |
| :---: | :---: |
| Creelman, W. A. | 102 |
| England, Harry E. | 97 |
| Richardson, Iophemia | 96 |
| Mosher, Amy | 102 |
| Barteanx, J. E. | 102 |
| Beckwith, Florence | 101 |
| Colter, Christina S . | 102 |
| Dickson, Hatie D. | 97 |
| Edwards, Elizabeth | 102 |
| Fitzrandolph, Mary F. | 101 |
| Fulton, Lillian M. | 102 |
| Henry, Ella K. | 14 |
| Hill, Annie L. | 101 |
| Hunter, Jennie A. | 102 |
| Lavers, Josephine | 102 |
| Lindsay, Olla M. | 101 |
| Logan, Margaret | 102 |
| Mcturdy, Ruth | 48 |
| Mceleave, R. D. | 102 |
| McKenzie, Agnes | 97 |
| McKenzie, Georgie | 102 |
| McLennatr, Jemme | 102 |
| McNutt, Bessie | 102 |
| McNeil, Bessie J. | 102 |
| Mcl'herson, Margaret | 98 |
| Nelson, Eda | 98 |
| Nichols, Harriet | 102 |
| Parker, Helen (i. | 102 |
| Purdy, Pearle | 1 |

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(60) 00
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Sinith, Margaret
Walker, Jean R.
Young, Nellie B.
Archibald, Janet
Archibahd, Jessie D.
Archibald, Maynard B.
Brown, Bertha M.
Clarke, Janet G.
Cox, Janet R.
Crowe, Bella
Davis, D. G.
Dawson, Agnes E.
Dickie, David L.
Drysdale, Carrie M.
Fox, Bertha
Fulinore, Della M.
(iammell, Janet
Grahtem, Ida
Guild, Jean
Ihtchinson, Grace
Logan, Jessie B.
Miller, Agnes
Meadows, Pearl
Mellish, Mary
MeIntosh, Agnes
McKay, A. Olivia
McKay, Beatrice
O’Brien, Maggie
Pearson, Mary G.
Turner, Josephine
Arehibald, Bertha J.
Brentoń, Mabel
Bryson, Ethel
Chisholm, Agnes
*Davis, Mabel L.
Christie, Stella
Crove, Tressie M.
*Fulton, Sarah M.
Gordon, Livelyn
Gourley, Mary Jane
Higgins, J. Etta
Higgins, Mabel J.
Johnson, Frank M.
Kavanah, Cecilia
*Leck, Nina H.
Lymds, Adelaide
Marsh, Isabel
*Mingo, Myrtle
*Moore, Bertha L.
Morgan, Lizzie
*Murray, Alexandra
McLeod, Susie
McLeod, Jennic
Parker, Laura D. B.
*Pratt, L. H.
Rutherford, Julia J.
*Sibley, Harriet M.
*Vance, Flora B.
White, J. Mabel
Whidden, Carlotta
Wright, Bertha A.
$60^{00}$

| West Colchester. |  |  | Murdock, Ethel | 102 | 3000 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| armeron, Guy E |  |  | McEachern, Lydia | 102 | 3000 |
| Daviman, Ame. | 102 | 6000 | McEachern, Janie | 98 | 2883 |
| Fult ${ }^{\text {ajonn, }}$ Lumeria | 102 | 6000 | Mckay, Lena | 87 | 2559 |
| Lituth, Beatricetia | 102 | 6000 | McLeod, Janie | 102 | 3000 |
| Hecte, Flora 0 . | 102 | 6000 | McLanders, Minnie | 102 | 3000 |
| ${ }^{9}$ ) ${ }^{\text {drian, }}$ Pearl | 102 | 6000 | Sutherland, Christie | 100 | 2941 |
| \%rieven, Anmie | 102 | 60 600 (10) | *Thompson, Libbie May | 76 | 2980 |
| Thoms, Georgie | 102 |  | Waugh, Harry H. S. | 981 | 2897 |
| Tilmert, W, Alice L | 102 | 60 59 41 | Weatherby, stela | 102 | 3000 |
| Wilson, W. K. ${ }^{\text {a }}$ | 101 | (i0) 00 |  |  |  |
| Arebibaldella B . | 102 | (0) 00 |  |  |  |
| Pounter, Erace | 102 | -5.500 | (Umberland. |  |  |
| Coke, Arace | 107 | 4278 |  |  |  |
| frume, Maude | 102 | 4500 | Lay, E. J. | 102 | 10500 |
| Fulton Martha | 102 | 4500 | Morehonse. k . . | 102 | 10500 |
|  | 102 | 4500 | Smith, Elizalbeth | 102 | 9000 |
| Libhth, Iizzie | 102 | 4500 | Tanche, Jos. H. | 102 |  |
| Hrash y, Ina B | 102 | 4500 | Barnes, Slanche | 99 |  |
| fortison sabel $L$. | 102 | 4500 | Chanche, Juan, Myra | 102 |  |
| formorh Ida M. | 102 | 4500 | Charman, Mary E. | 101 | 60 59 41 |
| Pronnel! Laura B. | 102 | 4500 | Chesley, Carrie | 102 | 6000 |
| Trabins, Vi, Grace | 102 | 40.00 | Craig, Jean E. | 102 | 60) 00 |
| Hunt, Lulu B | 101 | 4.500 | Crawford, R. D. | 99 | 5823 |
| Jortiney, Id ${ }^{\text {a }}$ | 102 | 4500 | Elliott, Minnie | 102 | 6000 |
| , ${ }^{\text {dma }}$ M. | 102 | 3000 | Glennie, Emma | 102 | 6000 |
| Estella | 102 | 3000 | Hall, Georgie | 102 | 6000 |
|  | 102 | 3000 | Hill, Alice | 102 | 6000 |
| Hew, Arey | 102 | 3000 | Jenks, Wimmired | 101 | 99 41 |
| fer ${ }^{\text {a }}$, Hattie $B$ | 102 | 3000 | Lawrence, Jennie | 98 | 5765 |
|  | 72 | 2717 | Lent, Irene | 97 | 5706 |
| ORrien, Erma |  | 3000 | Lockhart, Liman | 102 | 6000 |
| 8 Brien, Martha Ret. |  | 3000 | Mckenzie, Annie ${ }^{\text {a }}$ | 102 | (60)00 |
| sterem, ennie S . | J3 | 3647 | Mcpherson, Lansi | 102 |  |
| ${ }^{\text {Prame, Minerva }}$ | 102 | 3000 | Mitchell, Jennie | 1 | 6000 |
| Whate, Alorence | 102 |  | Mitchell, Jnnie | 102 | 6000 |
| Ghyte, Ruby A | 102 | 3000 | Ourray, Amella | 102 | 6000 |
| a $\mathrm{Vill}^{\text {arle }}$ | 93 | 36 30 30 | O'Brien, Bertha | 102 |  |
| ${ }^{\text {age }}$ Con | 102 | 3000 | Ogilvie, Fstella M. | 102 |  |
| idat |  |  | Roney, Effie | 102 |  |
|  |  |  | Russel, Jean | 102 | 6000 |
|  |  |  | Shortilfe, D. L. | 98 | 5765 |
| , Alice ' ${ }^{\text {mata }}$ Ethel |  | 2705 | Smith, Mamie K. | 99 | 5823 |
| ${ }_{8}, M_{\text {aggie }}$ Cair $^{\text {Ms }}$ | 44 | 2588 | Stewart, Martha | 102 | 6000 |
| J. | 94 | 4145 | Swift, Alice | 102 | (6) 00 |
| Jan | 102 | 4500 | Watt, Beatrice | 102 | (6) 00 |
| inle, Litzie | 102 | 4500 | Baird, Jean F. | $96{ }^{\text {b }}$ | 4256 |
| sille, Annie M. | 82 | 3616 | Beaton, Mary | 99 | 4366 |
| -od, Hilda B . | 102 | 4.500 | Bent, LeReta | 102 | 4500 |
| an, classie $A$ | 102 |  | Bigney, Bessie | 102 | 4500 |
| e, $\mathrm{llm}^{\text {ara }} \mathrm{B}$. | 102 | 4500 | Bird, Vera | 102 | 4500 |
| e, $\mathrm{F}_{\text {mira }} \mathrm{m}_{\text {a }}$ | 102 | 4500 | Brundage, Kate | 102 | 4500 |
| Prey, ${ }^{\text {anmu}}$ | 92 | 4057 | Butler, Mamic | 101 | 4456 |
| '0Wh, Maud | 99 | 4366 | Cameron, Blanche | 101 |  |
| ie, ${ }^{\text {ellen }}$ | 102 | 3000 | Cameron, Donnie | 102 |  |
| Marjorie | 102 | 3000 | Chandler, Isabella | 102 |  |
| Oli | 91 | 3568 | Charman, Eliza G. | 102 |  |
| T | 87 | 3411 | Clarke, Agnes | 96 |  |
| 4tatall Henry | 102 | 3000 | Craig; Muriel E. | 102 |  |
| Miner, ${ }^{\text {che }}$ Lum | 90 | $26+7$ | Creelman, Jean | 102 |  |
| So, Editan May | 90 | 2647 | Currie, Helen S. | 102 |  |
| Edith ${ }^{\text {a }}$ | 73 | 2863 | Dimock, Imogene. | 102 |  |
|  | 101 | 2971 | Elliott, Ida W. | 88 |  |


| Embree, Sara | 102 | 4500 | Dobson, Blanche | 97 |
| :---: | :---: | :---: | :---: | :---: |
| Falconer, Jean | 102 | 4500 | Dwyer, Ella | 97 |
| Frame, Annie | 102 | 4500 | Edgett, Minnie | 2 |
| Fraser, Ella J | 67 | 29.54 | Farrell, Annie | 102 |
| Fullerton, Eva L | 102 | 4500 | Fiske, Lalia E. | 102 |
| Fulton, S. J. | 102 | 4500 | Grant, Sadie | 102 |
| Gallager, Adelaide | 101 | 4456 | Harrison, Maude | 2 |
| Gates, Gertrude | 92 | 40.57 | Harrison, Evelyn R. | 102 |
| Gibson, Florence E. | 100 | 4411 | Hawkins, Emma | 102 |
| Hanna, Mabel | 102 | 4500 | Hayward, Inez | 101 |
| Harris, Mattie T. | 102 | 4500 | Hennesey, Elva | 101 |
| Harrison, Ermina | 102 | 4500 | Hickey, Lizzie E. | 71 |
| Healey, Teressa | 102 | 4500 | Hunter, Minnie E. | 2 |
| Hall, Mabel | 102 | 4500 | Jameson, Bertha | 102 89 |
| Hill, Ruby | 102 | 4500 | Jeffers, Myrtle | 89 |
| Hunter, Augusta | 78 | 3440 | Johnson, Susie W. | 10 |
| Hunter, Lillian <br> Marchant, Abbie J. | 102 | 4500 | Johnson, Edna C. | 78 68 |
| Marchant, Abbie | 95 102 | 4190 | Kleiber, Jessie | ${ }^{61}$ |
| McDonald, Grace Mc. | 102 72 | 4500 | Kelley, Vera M. | 102 |
| McIntosh, Bella J. | 102 | 3170 | Lamb, Leah M. | 102 |
| McIvor, Ethel | 102 | 4500 | Lindsay, Susie | 87 |
| McLeod, Georgiana | 100 | 4411 | Leonard, Eliza M. | 101 |
| MıPhee, Teressa | 102 | 4500 | Mattinson, Ivey | 102 |
| Moreash, Georgina | 81 | 3572 | McCullum, Alberta M. | 99 |
| Morris, Edith L. | 101 $\frac{1}{1}$ | 4478 | *McCully, Florence | 102 |
| O'Brien, Fannie | 102 | 4500 | McDonald, Eileen | 102 |
| O'Brien, Agnes | 93 | 4101 | *McEachren, Margaret | 101 |
| Oxley, Annie | 102 | 4500 | McKay, Ida | 101 |
| Patton, Mary E. | 82 | 3616 | McKay, Margaret | 102 |
| Prowse, Lillian | 102 | 4500 | Mckeil, Linda B. | 68 |
| Pugsley, Chester | 102 | 4500 | McLaughlin, Verna | 10 |
| Ripley, Daisy | 102 | 264 4500 | McLaughlin, Kathleen | 10 |
| Roach, Bessie | 100 | 4411 | Mitchell, Gertrude | ${ }_{93}$ |
| Robertson, Annie | 102 | 4500 | Morrison, Kathleen H. | 72 |
| Shipley, Ethel M. | 102 | 4500 | *O'Connell, Irene | 102 |
| Smith, Bella A. | 102 | 4500 | Oulton, Christena | 102 |
| Spearing, Alice M. | 102 | 4500 | Patton, Annie | 97 |
| Sproule, Essic | 102 | 4500 | Porter, Mary | 102 |
| Sproule, Mabel | 102 | 4.500 | Purdy, Sara A. | 92 |
| Taylor, Arabella | 100 | 4411 | P'urdy, Agnes 1. | 76 |
| Thompson, Fannie J. | 97 | 4278 | Reid, Mae I. | 79 |
| Trerice, Ruth | 102 | 4500 | Ripley, Russel E. | 102 |
| Baird, Alda C. | 102 | 3000 | Ripley, Jennie | 102 |
| Baker, Sadie G. | 102 | 3000 | Robinson, Margaret M. | 102 |
| Beattie, Jamie | 88 102 | 2589 | Ross, Jenuie | ${ }_{6} 9$ |
| Bird, Elsie | 1023 | 3000 <br> 15 <br> 15 | *Ross, Birdie | 81 |
| Bradshaw, Georgina | $93{ }^{2}$ | 1572 | Ryan, Beulah M. | 101 |
| Brown, Delia I. | 102 | - 3000 | Salter, Josephine M. | 63 |
| *Brownell, Myrtle | 159 |  | Schurman, Nellie | 87 |
| Cameron, Jennie B | 102 |  | Smith, Jennie J. | 101 |
| Campbell, Helen | 93 | 2736 | Somers, Lorelei D. | $1{ }_{78}$ |
| Campbell, Annie | 102 | 3000 |  | 98 |
| Carter, Olive | 56 | 1646 | Sutherland, John D. | 101 |
| Chapman, Margaret J. | 100 | 2941 | Sutherland Katharine | 162 |
| Chapman, May E. | 102 | 3000 |  | 102 |
| *Coulter, Gladys | 67 | 2627 | Taylor, Florence H. | 61 |
| Creelman, Dcan | 95 | 2794 | Thompson, Jennie A. | 81 |
| Crowe, Grace | 102 | 3000 | *Thompson, Gladye A. | 102 |
| Davis, Sadie | 102 | 3000 | VanBuskirk, Marjorie | 98 |
| Davison, Bertha | 102 | 3000 | Willis, Jennie | 55 |
| Dench, Susie | 97 | 2853 | *Wilson, Annie | 82 |
| Dickinson, Carrie E | 102 | 3000 | *Wood, Ruby T | 102 |
| Dyas, Mary | $38\}$ | 1132 | Woodland, Hattie E. |  |

[^0]| Parrsboro. |  |  | Hicks, Blanche G. | 102 | 6000 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Hogg, Nathaniel W. | 102 | 9000 |
| ${ }^{\text {Atkingon, Peter }}$ | 102 | 10500 | Longley, Annie M. | 72 | 4235 |
| , Blanch | 97 | 5706 60 | Longley, Reginald A. | 30 | 1764 |
| aud V . | 102 | ${ }_{60}^{60} 00$ | Outhouse, Eva C. | 102 | 6000 |
| $\mathrm{D}_{\text {ople, }}$, Wym | 102 | ${ }^{60} 00$ | Ritcey, Mae T. | 102 | 6000 |
| Gile, Mabel | 98 | 5765 | Sister Baptista Maria | 94 | 5530 |
| Adelaid | 102 | ${ }_{60} 00$ | " M. Madeline | 102 | 6000 |
| boitheon, Elizab. | 102 | 6000 5941 | Troop, Alice M. | 149 | 2882 |
| Smullen, fly | 101 | 6000 | Whitman, Jean E. | 102 | 6000 |
| ${ }^{\text {d da }}$ M | 102 | 6000 | Wilson, Flora E. | 102 | 6000 |
| e, Lid L , |  | $(6000$ | Wolfe, Hattie F. | 102 | 6000 |
| Wetion, Lillitie L. | 102 | 6000 | Baker, Ermina M. | 102 | 4500 |
| Atteb, Hatije | 102 | 6000 | Baker, Kathleen A. | 102 | 4500 |
|  | 102 | 6000 | Belliveau, Antoinette | 102 | 4500 |
| R | ${ }^{18}$ | 3880 | Belliveau, Marie A. | 102 | 4500 |
| , ${ }^{\text {a }}$ | 102 | 4500 | Comean, Amy | 102 | 4500 |
| crall han, Lenme | 102 | 4500 | Comeat, M. Eugenie | 102 | 4500 |
| Pulen, Minna, | 108 | 4322 | Crocker, Đva M. | 95 | 4190 |
| kererton, Manie O. | 102 | 4500 | Doucet, Adele | 102 | 4500 |
| ook Min mie G | 102 | 4500 | Doucet, Elizabeth | 102 | 4500 4500 |
| putal Annie | 102 | 4500 | Doucet, Jos. P. | 102 | 4500 4500 |
| Mamie | 101 | 4456 | Dugus, Aggie | 102 | 4500 |
| Fueid, 'Allusueta | 102 | 4500 3814 | Harris, Nellie M. | 102 | 4500 |
| ( | ${ }_{102}$ | 4500 | Harrison, A. Frances | 39 | 1719 |
|  | 102 | 4500 | Hutchinson, Nina B. | 102 | 4500 |
| Minn | 98 | 2883 | LeBlanc, Enniel | 102 | 4500 |
|  | 97 | 3804 | Letteney, Ldith P. | 107 | 4456 42 78 |
|  | 29 | 852 | Melancon, Rose A | 102 | 4278 4500 |
| Cifapher Nellie $P$ | 78 | 3059 | Peters, | 102 |  |
| dolet | 101 | 2971 | Sothierd, S. Beryl | 53 |  |
| Hoton, Werle E. | 102 | 3000 | Sanlnier, Catherine | 102 | 4500 |
| Pot, effie ${ }^{\text {m }}$ | 101 | 2981 | Shortliffe, Nina M. | 101 | 4456 |
|  | 28 |  | Simpson, Florence E. | 102 | 4500 |
|  | 102 | 30 20 20 | Simpson, Lulu A. | 102 | 4500 |
| Bpicery, Jesamie E. | 69 101 | 2971 | Sister M. Anthony | 102 | 4500 |
| yd | 102 | 3000 | "، "، Norbert | 29 | 1279 |
| ${ }^{\text {cha }}$, Poya | 102 | 1587 | "، "، Modesta | 102 | 4500 |
| A. | 68 | 2667 |  | 102 97 | 4500 |
|  |  |  | Taylor, Addie D. | 56 | 2469 |
|  |  |  | Thibault, M. Alma | 102 | 4500 |
| $A_{n}$ |  | 6000 | Thibault, M. Monique | 102 | 4500 |
|  |  |  | Thimot, M. Elina | 102 | 4500 |
| $8{ }^{\text {ention }}$ | oo |  | Trevoy, Archie H. | 102 | 4500 |
|  |  |  | Walsh, Grace B. | 44 | 1940 |
| sla | 101 | 2971 | Young, Agnes M. | 102 | 4500 |
|  | 101 | 2971 | Amirault, Edith S. | 102 | 3000 |
|  | 102 | 3000 | Blackford, Lillie D. | 102 | 3000 |
|  |  |  | Brown, Vernon E. | 102 | 3000 |
|  |  |  | *Calnek, Anna A. | 102 | 4000 |
|  |  |  | Campbell, Lola B. | 101 | 2985 |
|  |  |  | *Churchill, Allie M. | 90 | 3529 |
| eelliveu, $\mathrm{Cab}^{\text {coib }}$ |  |  | Comeau, Marie Ann | 102 |  |
|  | 102 | 9000 | Comeau, Marie Rose | 102 |  |
|  | 102 | 6000 | *Cook, Hattie A. | 82 | 3200 |
|  | 102 | 6000 | Crocker, Nina B. | 102 | 3000 |
| misar ${ }^{\text {a }}$ | 97 | 5706 | Dakin, Guy A. | 102 |  |
|  | 102 | 6000 | Denton, Helen A. | 102 | 4000 |
|  | 102 | 6000 | *Doty, Floris G. | 102 |  |
| ra, Al Mard | 102 | 6000 | Doty, Lytha M. | 102 | 3000 |
| - | 102 | 6000 | Dugas, Francoise | 102 | 3000 300 |
|  | 102 | 6000 | Franklyn, Alma M. | 102 | 3000 |


|  |  |
| :--- | ---: |
|  |  |
| Goreham, Nettie A. | 102 |
| Gower, Edna E. | 102 |
| *Grant, Estella V. | 102 |
| Hersey, Laura B. | 102 |
| Hiltz, Elizabeth B. | 102 |
| *Hutchinson, Mary J. | 92 |
| Hutchinson, Maud D. | 102 |
| *Jones, M. Eleanor | 49 |
| Lambertson, Myrtle F. | 49 |
| *Lambertson, Pearl F. | 102 |
| Lawrence, Charlotte P. | 54 |
| *LeBlane, Sarah | 102 |
| LeBlane, Symphorien | 102 |
| *Lewis, Jessie M. | 98 |
| Lombard, Marie A. | 102 |
| Mack, Annie L. | 102 |
| *Marshall, Annie M. | 83 |
| Melancon, Leonie A. | 101 |
| *Mullen, Annie L. | $101 \frac{1}{2}$ |
| Prime, Jenetta | 102 |
| Rice, Olive, A. | 73 |
| Ling, Viva M. | 102 |
| Robichaud, Emily | 102 |
| Robichaud, Eveline | 102 |
| Robichaud, Marie M. | 102 |
| Sister M. Gonzaga | 102 |
| '" F. Paula | 73 |
| Snow, Lennie M. | 102 |
| *Surette, Mary M. | $99 \frac{1}{2}$ |
| Suthern, Lois B. | 102 |
| Taylor, Sophia M. | 102 |
| Theriault, Symphorien | 102 |
| *Trask, Lizzie B. | 91 |
| Thurber, Bessie G. | 102 |
| Wetmore, Flora E. | 102 |
| Young, Ermina V. | 102 |
|  |  |

## Annuitants.

| Goodwin, Emma M. | 4500 |
| :--- | :--- |
| Sister M. Ursula | 4500 |
| Smallie, Mary | 3000 |

## GUYSBORO.

| Beattie, Frank H. | 100 | 10293 |
| :---: | :---: | :---: |
| Evans, Laura F. | 102 | 7500 |
| Brown, Mabel | 102 | 6000 |
| Carmichael, D. E. | 102 | 6000 |
| Courteen, Violet | 96 | 5647 |
| Cousins, Leah | 102 | 6000 |
| Dillou, Eva | 102 | 6000 |
| Dennison, Gertrude Alice | 102 | 6000 |
| Hadley, Marion S. | 102 | 6000 |
| Hurst, Blanche | 102 | 6000 |
| Kavamagh, Florence E. | 102 | 6000 |
| Mctillivray, Amelia | 101 | 5941 |
| McMillan, Janet C. | 102 | 6000 |
| Ross, Katherine J. | 102 | 6000 |
| Brown, Mary | 102 | 4500 |
| Fraser, Ida J. | 102 | 4500 |
| Hanifen, Margaret M. | 94 | 4145 |
| Hadley, Agatha A. | 102 | 4500 |
| Kennedy, Annie M. | 69 | 3042 |




|  | JOURNAL OF EDUCATION. |  |  |  | 17 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Nichoolsillie A. |  |  |  |  |  |
| Parke ${ }^{\text {and }}$, Malcolm | 101 | 4456 | Josey, Izetta | 102 | 3000 |
| Publice Nellie L. | 102 | 4500 | Julien, Emma B. | 102 | 3000 |
| Roche ${ }^{\text {a }}$ er, Jennie | 102 | 4500 | Kennedy, Winifred M. | 102 | 3000 |
| Shule, Mary | 102 | 4500 | Landry, Evelyn M. | 93 | 2736 |
| Stith, Assie T. | 102 | 4500 | LaPierre, Matilda | 102 | 3000 |
| Smith, Anna M. E . | 97 | 4278 | *Leslie, Robert | 30 | 1176 |
| ${ }^{\text {stith, }}$, Mabella E. | 102 | 4500 3308 | Marryat, Ethel L. | 102 | 3000 |
| 8rith, Maie Addie | 75 | $\begin{array}{r}33 \\ 3396 \\ \hline 15\end{array}$ | *Morrow, Stella A. | 70 | 2745 |
|  | 77 | 3396 4500 | Mosher, Ellen S. | 102 | 3000 |
|  | 102 | 4234 | Murray, Mary I . ${ }_{\text {M }}$ | 73 | 2147 |
| Thom, $\mathrm{H}_{\text {attie }} \mathrm{S}$ H. | $101 \frac{1}{2}$ | 4478 | MacKenzie, Elsie C. | 102 | 3000 |
| Thomas, Bessie | 78 | 3440 | Naylor, Kate | 102 | 3000 |
|  | 102 | 4500 | Nietorth, Mabel J. | 102 | 3000 |
|  | 102 | 4500 | Parlee, Alvida M. | 43 | 1264 |
| Walker, Bthel | 1015 | 4478 | Perry, Lva M. | 102 | 3000 |
| - Alson, Bertie E | 102 | 4500 | Prest, Mary M. | 68 | 2000 |
| - Andersoladys E . | 102 | 4500 | Richardson, Edith M. | 102 | 3000 |
| Andreon, Arth | 48 | 2116 | *Richardson, Mildred | $101 \frac{1}{2}$ | 3980 |
| ${ }^{\text {rechibure, Mapur }}$ | 78 | 3059 | Ritcy, Augusta 0 . | 102 | 3000 |
| foler ${ }^{\text {ald, Ed }}$ Esgie E. | 59 | 2313 | Sedgewick, Jessie M. | 84 | 2471 |
| Winifrard | 59 | 1735 | Shaw, Selena E. | 91 | 2677 |
| Boyler, Florened | 19 | 559 | *Skerry, Emma | 87 | 34 11 |
| , katie A E. | 64 | 1882 | Smith, Alice M. | 97 | 2853 |
|  | 15 | 441 | Smith, Edna R. | $77 \frac{1}{2}$ | 2280 |
| , Adelle ${ }^{\text {a }}$ | 102 | 3000 | Spanks, Margaret E. | 101 | 2971 |
|  | 102 | 3000 | Stoddard, Lena S. | 102 | 3000 |
| ar] | 102 | 3000 | Stoddard, Robert H. | 102 | 3000 |
| $\mathrm{mm}_{\mathrm{m}}$ | $91 \frac{1}{2}$ | 2691 | Stoddard, Sabina B. | 102 | 3000 |
| $A^{4} \square_{a} \mathrm{R}$ | 1012 | 2985 | Sullivan, Rose M. | 102 | 3000 |
|  | 73 | 2147 | *Upshaw, Lthel 1. | 100 | 3921 |
| clizab | 102 | 3000 | Urquhart, Nellie | 102 | 3000 |
| P Prdal Mabel B ${ }^{\text {a }}$ J. | 102 | 3000 | Warner, Mary B. | 102 | 3000 |
| cane, A | 77 | 3019 | Watt, Bridget G. | 102 | 3000 |
| ciot, $\mathrm{V}_{\mathrm{c}}$, Gerte | 88 | 2589 | Yeadon, Ida M. | 82 | 2412 |
| Pokide era Elizud | 102 | 4000 | McPhail, Annie L. | 102 | 3000 |
| , Alexazabeth | 101 | 2971 | Bates, Edwina M. | 101 | 2971 |
| argaret | 83 | 2441 |  |  |  |
| Pory, Ireadie Li | $96 \frac{1}{2}$ | 2838 | Annuitan |  |  |
| L. | 102 | 3000 |  |  |  |
|  | 102 |  | Bacon, Amelia A. |  | 3000 |
| clum, Mina | 93 | 3000 |  |  |  |
| Clempon, A. | 102 | 3000 |  |  |  |
| Ethal E . | 182 | 1882 |  |  |  |
| thant Ethel V . May | 111 | 4382 | HANTS |  |  |
| cuild, Elizabeth | 78 | 2294 |  |  |  |
| fuld Effel Jane | 81 |  | West. |  |  |
| Ball Gramel G. | 79 | 3098 |  |  |  |
|  | 102 | 3000 | Dill, George W. |  |  |
| $\mathrm{b}^{\text {a }}$ peld, illiam Fielding | 20 |  | Kaulbach, Lenore | 97 |  |
| mand, ${ }^{\text {mand }}$ | 102 | 3000 | Smith, J. A. | 100 | 10293 |
| Aapreliog, Margaret H . | 101 |  | Coldwell, Lewis H, | 102 | 6000 |
| therine | 87 91 |  | English, Mabel I. | 99 | 5823 |
| Nellimpe F. | ${ }^{91}$ |  | Foote, Reca K. | 102 | 6000 |
| Ethel M. | 84 | 2400 | Fulmore, A. Maude | 93 | 5471 |
| Mah M. | 102 | 3000 | Lavers, Winnifred M. G. | 102 |  |
|  | 101 | 2971 | Lewis, Lena Lest, Bessie | 102 |  |
|  | $74 \frac{1}{2}$ | 2191 | Lockhart, Lena L. | 102 | 6000 |
| la ${ }_{\text {B }}$ | 60 | 23.53 | McLellan, Mary | 102 | 6000 |
|  | 102 | 3000 | Pentz, Bertha E. | 95 | 5588 |
|  | 102 | 3000 | Scott, Agnes B. | 102 | 6000 |
| B. ${ }^{\text {a }}$ | 38 | 1117 | Webster, Elsie E. |  | 235 |
| Armio | 76 | 2235 | White, Jennie M. | 102 | 6000 |
| 2 | 91 | 2677 | *Adams, Floretta M. | 102 | 4500 |


| Bennett, Hannah | 102 | 4500 |
| :---: | :---: | :---: |
| Bissett, Amy R. | 102 | 4500 |
| Boyle, Harriet M. | 102 | 4500 |
| Brison, Maud L. | 93 | 4101 |
| Burgoyne, N. A. | 102 | 4500 |
| Caldwell, Winnie B. | 102 | 4500 |
| Davies, Kathleen | 102 | 4500 |
| Dimock, Annie | 102 | 4500 |
| Dimock, Jessie | 102 | 4500 |
| Iraser, Daisy R. | 102 | 4500 |
| Goudy, Emily I | 102 | 4500 |
| Harvey, Alice A. | 102 | 4500 |
| Harvey, Arabella | 101 | $44: 56$ |
| Kelley, Minnie A. | 102 | 4500 |
| King, Mildred E. | 97 | 4278 |
| Lawrence, Harriet E. | 102 | 4500 |
| Lawrence, Lily M. | 97 | 4278 |
| Loekhart, Li. Bessie | 102 | 4500 |
| Lynch, Jessie A. | 102 | 4500 |
| McCurdy, Helen | 102 | 4500 |
| McLearn, Gertrude E. | 102 | 4500 |
| Moore, Jennie | 102 | 4500 |
| Mosher, Idella P. | 101 | 4456 |
| North, Marjorie D. | 99 | 4360 |
| Palmer, Gladys Li. | 97 | 4278 |
| Palmeter, Nora A. | 102 | 4500 |
| Parker, Prudence E. | 102 | 4500 |
| * Parsons, Hattie A. | 99 | 4366 |
| Roach, Lena L. | 75 | 3308 |
| Rogers, Sarlie | 1012 | 4478 |
| Sanford, Alida R. | 102 | 4500 |
| Sexton, Verna | 86 | 3792 |
| Shaw, Mildred L. | 102 | 4500 |
| Spencer, Fred I. | 102 | 4500 |
| Tuttle, J'Iorence L. | 9 | 397 |
| *Archibald, Mary McKay | 96 | 3764 |
| *Barnahy, Filsie M. | 98 | 3843 |
| Carter, Medora | 1.00 | 2941 |
| * Chase, Gertrude M. | 93 | 3647 |
| Cochrane, Madge I. | 9.5 | 2794 |
| Davidson, Rebecca | 102 | 3000 |
| Laws, Lillian | 102 | 3000 |
| *MeClair, Lestie R. | 73 | 2863 |
| Quinn, Dora M. | 102 | 3000 |
| *Rose, Anna M. | 20 | 784 |
| Simm, Jennie P. | 102 | 3000 |
| *Smith, Nellie A. | 67 | 2627 |
| Underwood, Janie | 100 | 2941 |
| Vaughan, Bertha L. | 72 | 2117 |
| *Vaughan, Alice G. | 102 | 4000 |
| Withrow, Blanche H. | 102 | 3000 |


| Campbell, Lena B. | 85 |
| :---: | :---: |
| Campbell, Margaret B. | 101 |
| Densmore, Agnes McH. | 102 |
| Dowell, Helen G. | 101 |
| Ferguson, Janie A. | 102 |
| Fraser, Ella J. | 10 |
| Graham, Arldie R. | 102 |
| Grahant, Alice E. | 102 |
| Graham, Julia M. | 102 |
| Hamilton, Mildred | 102 |
| Hartling, Mabel E. | 74 |
| Homans, Estella M. | 102 |
| Kent, M. Lillian | 102 |
| Lewis, Sadie R. | 100 |
| MacLeod, Margaret | 102 |
| *McGill, Trances | 101 |
| Mariette, Fmma M. | 102 |
| Moreash, Sara M. | 102 |
| Salter, Hattie M. | 102 |
| Simm, Ada A. | 102 |
| * Brown, Helen F. | 97 |
| *Coldwell, Alice B. | ${ }_{102}$ |
| Cole, Lydia | 102 |
| *Coudrane, Ethel B. | 33 |
| Dowell, Vera | 57 |
| *Etter, A. Gorden | 1017 |
| Faulkner, C. Benjamin | 103 |
| *Goff, Flora M. | 102 |
| Hale, Sadie E. | 102 |
| * Hamilton, Olivia A. | 102 |
| *Harvey, Florence | 102 |
| Horne, May E. | 97 |
| Isenor, Lena M. | 81 |
| Logan, John S. | 99 |
| Logan, Katie L. | 102 |
| MacDougall, Merle R. | 88 |
| Maclunee, Rose | 67 |
| MacLean, Katherine | 101 |
| MeLellan, Annie | 102 |
| McLeod, Elsie | 100 |
| McLeod, Laura G. | 102 |
| * Mason, Sarah J. | 102 |
| O'Brien, Janie L. | 88 |
| O'Brien, Miles A. | 101 |
| Parker, Alice B. | 78 |
| Parker, Winifred E. | 102 |
| Stillman, Flora B. | 102 |
| Sutherland, Jessie C. | 101 |
| Wickwire, Margaret A. | 102 |
| Williams, Reta H. |  |

Annuitants.
Scott, Lily A.
Smith, Letson M.

INVERNESS.
Soutri.


| Baltzer, Ivy M. | 102 |
| :--- | ---: |
| Crossley, Nellie B. | 102 |
| Holesworth, Mabel C. | 101 |
| Maedonald, Ruby | 102 |
| McKenzie, Florence H. | 102 |
| Ogilvie, Estey M. | 101 |
| Oxley, Gertrude O. | 102 |
| Ritcey, Adelaide M. | 102 |
| Scothorn, Priscilla | 102 |
| Strong, May S. | 102 |
| Blois, Josephine C. | 101 |
| Burgess, Bertha L. | 102 |






## Pictou.

| North. |  |
| :---: | :---: |
| $W_{\text {mecer }} W_{m} . P .$ |  |
| Macleod, Robert | ${ }_{96}^{96}$ |
| Funto, H R. H . | -96 |
| Haser, An, f | 596 |
| Haxwell, ${ }^{\text {andie }} \mathrm{D}$. | 97 |
| 4ackay, Laie | 11 |
| Mackae, Alicla B. | 102 |
| Mcare, Mure | 102 |
| Rutheur, Olive | 97 |
| Bouerford, ${ }^{\text {a }}$ | 97 |
| ${ }^{\text {Browillier, May }}$ Margaret | 102 |
| $\mathrm{Cam}_{\text {n, }} \mathrm{I}$ sabay | 101 |
| Cameron, Belle J. | 101 |
| Collipell, Mare N . | 102 |
| Gun, Annie $M^{\text {aret }}$ | 101 |
| Haley ${ }^{\text {amamie }}$ A. | 102 |
| 4aci, Mary $A$. | 102 |
| HeGionald, $M$ | 97 |
| ${ }^{4} \mathrm{CO} \mathrm{In}^{\text {a }}$ Gertrudel | 101 |
|  | 80 |
| $\mathrm{K}_{\text {as }}$, Christena | 97 |
| ckenzio Marion A. | 102 |
| ckenzie, Barbara | 102 |
| Hockay, Marjorie | 12 |
| mactr, Ade | 102 |
| $\mathrm{V}_{\text {icar, }}$ J, Elaide | 54 |
| , | 97 |
| na, I ${ }_{\text {sab }}$ | 102 |
| Jeasi | 97 |
| , Margar. | 102 |
| - sadie M | 102 |
| d, $\mathrm{Idna}_{\mathrm{E}} \mathrm{M}$. | 102 |
| , Marion | 102 |
| e j Marion. | 97 |
| heressie | 97 |
| herlad, $M$ | 97 |
| land, Mina | 102 |
| Byperland, vanie | 93 |
| Tuly ${ }^{\text {eater, }}$ Manaie W. | 102 |
| Adam, Ethel | 97 |
|  | 102 |
| Creinhe, Jenary E. | 98 |
| complon, Ale B. | 86 |
| Miliotell, Agnes R. | 91 |
| Prote Annistena | 102 |
| r, Elsio L. | 88 |
| mm, Llo. | 102 |
| $\mathrm{is}_{8,}$ Annyd M. | 39 |
| ghen, El E. | 92 |
| en, Meanor | 97 |
| son, Lilly M. | 91 |
| ckll F , | 71 |
| cenzie P Pearle | 36 |
| enzie, D ${ }_{\text {dssie }}$ M. | 78 |
| D. A. | 99 |


| 84 | 72 |
| :--- | :--- |
| 98 | 84 |
| 84 | 72 |
| 84 | 72 |
| 57 | 06 |
| 6 | 47 |
| 60 | 00 |
| 60 | 00 |
| 57 | 06 |
| 57 | 06 |
| 60 | 00 |
| 44 | 56 |
| 44 | 56 |
| 45 | 00 |
| 44 | 56 |
| 45 | 00 |
| 45 | 00 |
| 42 | 78 |
| 44 | 56 |
| 35 | 28 |
| 42 | 78 |
| 44 | 56 |
| 45 | 00 |
| 45 | 00 |
| 31 | 75 |
| 45 | 00 |
| 23 | 81 |
| 42 | 78 |
| 45 | 00 |
| 42 | 78 |
| 45 | 00 |
| 45 | 00 |
| 45 | 00 |
| 45 | 00 |
| 42 | 78 |
| 42 | 78 |
| 42 | 78 |
| 45 | 00 |
| 41 | 01 |
| 45 | 00 |
| 42 | 78 |
| 45 | 00 |
| 28 | 83 |
| 33 | 72 |
| 26 | 77 |
| 30 | 00 |
| 25 | 89 |
| 40 | 00 |
| 11 | 47 |
| 27 | 06 |
| 28 | 53 |
| 26 | 77 |
| 20 | 88 |
| 10 | 59 |
| 22 | 94 |
| 29 | 12 |
|  |  |



6000

| Fraser, William | 6000 |
| :--- | :--- |
| Gollan, John | 6000 |

MacKay, John
McArthur, Alex.
6000
6000
6000
Soutre.

| Ellis, Russell | 102 | 9000 |
| :---: | :---: | :---: |
| MacLeod, Jeanette | 102 | 9000 |
| McLeod, John T. | 102 | 10500 |
| Osborne, $\mathrm{N} . \mathrm{A}$. | 102 | 10500 |
| Baillie, A. G. | 102 | 6000 |
| Bannerman, Margaret | 102 | 6000 |
| Clarke, Adelia | 102 | 6000 |
| Coulter, Wm. B. | 97 | 5706 |
| Demmons, Mona B. | 102 | 6000 |
| Fraser, Attie | 102 | 6000 |
| Fraser, Emily M. | 102 | 6000 |
| Fraser, Winnifred | 102 | 6000 |
| Gunn, Jessie A. | 102 | 6000 |
| Gould, Lulu J. | 102 | 6000 |
| Grant, Katherine | 101 | 5941 |
| MacKay, Robetta | 102 | 6000 |
| Maclean, Cassie | 102 | 6000 |
| MacLean, liva S. | 99 | 5823 |
| MacLeod, I'. T' | 102 | 6000 |
| Macleod, Gretha | 102 | (0) 00 |
| Macl'herson, Eliza | 102 | 6000 |
| MacBean, Jennie | 102 | 6000 |
| MacLean, William | 102 | 6000 |
| Marshall, Margaret | 102 | 6000 |
| Miller, Lola D. | 102 | 6000 |
| Munn, Nina | 102 |  |
| Murray, Sadie A. | 102 | 6000 |
| Munro, Ethel | 100 | 5882 |
| Ogilvie, A. Marie | 102 |  |
| Maud, Philip | 102 | 6000 |
| Robertson, Edith | 102 | 6000 |
| Robson, Norman | 102 |  |
| Reeves, Annie W. | 101 |  |
| Savage, Martha | 102 |  |
| Thompson, Elizabeth | 102 |  |
| Archibald, Blanche | 101 98 |  |
| Archibald, A. D. | 98 102 | 43 45 45 40 |
| Bryden, Myra Ballantyne, Jean | 102 | 4500 |


| Boutillier, Eunice | 90 | 3969 | Murray, Agnes E. 39 | 19 |
| :---: | :---: | :---: | :---: | :---: |
| Cameron, Mary M. | 97 | 4278 | *Munro, Nettie C. 49 | 199 |
| Condon, Josephine | 102 | 4500 | *Parlee, Marion 61 | 258 |
| Crocket, Annie C. | 102 | 4500 | Reid, Jeannette M. 88 | 300 |
| Chisholm, Mary M. | 102 | 4500 | Ross, Minnie 102 | 3000 |
| Cunningham, Leah | 102 | 4500 | Ross, Isabella C. 102 | 30 |
| Flynn, Sadie | 101 | 44 <br> 45 <br> 15 | Sutherland, Mary M. 102 | 970 |
| Fraser, (iertrude C. Grant, Maria | 102 | 4500 4500 | $\begin{array}{ll}\text { Stewart, Mary L. } & 33 \\ \text { Thompson W Percy } & 102\end{array}$ | 30 |
| Grant, Etta W. | 102 | 4500 4500 | Thompson, W. Percy 102 |  |
| Jordain, Catherine | 101 | 4456 | Annuitants. |  |
| Keith, Sylvia | 102 | 4500 | AnNuman | 4500 |
| Kelly, Marion E. | 98 | 4322 | Jessie Cameron | 600 |
| MacArthur, Annie M. | 102 | 4500 | McKenzie, A. S. | $45^{00}$ |
| MacKenzie, Emma | 97 | 4278 | Cruikshank, Jessie |  |
| MacKenzie, Christena MacKnight, Jessie | 97 | 4278 |  |  |
| MacKnight, Jessie Macgillivray, Jane R. | 102 | 4500 |  |  |
| Macgillivray, Jane R. McIsac, Minnie | 102 | 4500 | QUEENS. |  |
| MeIsaac, Mimie | 101 | 44.56 | QUENNS. |  |
| MacIntosh, Miranda MacMillan, Anabelle | 102 | 4500 | South. |  |
| MacMillan, Anabelle MacGillivray, A.J. | 102 | 4500 | Soum. 102 | 1050 |
| MacGillivray, A.J. | 34 | 1499 | Morton, R. F. 102 | 900 |
| McDonald, Margaret D. Maxwell, Bessie B. | 68 | 2998 | Mullins, Jennie 102 | 6000 |
| Maxwell, Bessie B. | 97 | 4278 | Baltzer, Mary H. 102 | 600 |
| Macdonald, Agnes | 100 | 4411 | Harrington, E. B. 102 | 6000 |
| MacEwen, Mary C. | 67 | 2954 | Harrington, Georgie 102 | 6000 |
| Patterson, Margaret | 102 | 4500 | Letson, Marguerite 102 | 6000 |
| Robertson, Susie M | 102 | 4500 | Mader, Annie A. 102 | 6000 |
| Ross, Bessie B. | 102 | 4500 | Patterson, Cordelia 102 | 6000 |
| Schultz, Sadie J. | 102 | 4500 | Richardson, K. F. 102 | 6000 |
| Smith, Isabell C. | 101 | 4456 | Smith, Sophia $\quad 102$ | 606 |
| Sutherland, Lexie | 102 | 4500 | Thompson, Lillian 102 | 360 |
| Turner, Christena | 102 | 4500 | Allen, Mary E. 82 | 4500 |
| Wagner, Georgina | 81 | 3572 | Frnst, Florence C. 102 | 4566 |
| Walker, Jennie | 102 | 4500 | Freeman, Allene 102 | 4300 |
| Ballantyne, Agnes W. | 99 | 2912 | Greenlaw, Marion 99 | 4000 |
| Cameron, Hannah | 102 | 3000 | Hanley, Ruth 102 | 4600 |
| * Cameron, Rose Anna | 91 | 3568 | Hartlen, Ida 102 | 4500 |
| Cameron, Ethel | 81 | 2382 | Huskins, Pearl 102 | 45 |
| Crooks, Helena | 96 | 2824 | McGinty, Katherine 102 | 2700 |
| Dunlavy, Jennie | 85 | 2500 | McLeod, Ethel 62 | 4500 |
| Fraser, Laura S. | 102 | 3000 | Osborne, Melissa 102 | $40^{\circ} 0$ |
| Fraser, Margaret C. | 102 | 3000 | Palmer, Queenie 102 | 4500 |
| *Fraser, Elizabeth E. | 53 | 2078 | Pentz, Harriet 102 | 450 |
| * Fraser, William T. | 39 | 1147 | Rafuse, Gertrude 102 | 4500 |
| * Guherton, Irene | ${ }^{67}$ | $\begin{array}{ll}26 & 27\end{array}$ | Ramey, Jessie M. 102 | 300 |
| *Green, Elizabeth | 101 | 29 <br> 261 <br> 67 | Wylde, Mary A. 102 | 30 |
| *Gunn, Martin W. | 68 | 2667 | Folliver, Belle 102 | 3200 |
| Jackson, Annie F. | 92 | 2706 | Freeman, Verta 84 | 3000 |
| *Johnson, Ethel G. | 101 | 3961 | *Frazel, Letitia 102 | 308 |
| Macdonald, Marcella | 101 92 | 3961 2706 | Hagan, Matilda 102 | 280 |
| MacKenzie, Ethel A. | 98 | 2706 2883 | Hawboldt, Ida 72 | 3000 |
| MacKay, Ellen | 89 | 2888 2618 | *Manthorne, Mildred 102 | 400 |
| Macleod, Isabel E. | 93 | 26183 | Meisner, Hilda 102 | 3011 |
| Mac(Quarrie, Mabel | 101 | 2971 | *Munroe, Effie w 102 | 2900 |
| Macqueen, Marjorie | 101 60 | 1764 | McLeod, Annie W. 101 | 3000 |
| Melbonald, Katherine | 102 | 3000 | $\begin{array}{ll}\text { Nickerson, Matilda } & 102 \\ \text { Rhynard Gertude }\end{array}$ | 3071 |
| McIonald, Margaret K. | 90 | 2647 | Swimm, Mertrude 102 | $2_{24} 31$ |
| *McDonald, Allister | 65 | 21.50 | Taylor, Maud 101 | 24 |
| MeGregor, Minnie C. | 101 | 2971 | * Walker Margaret |  |
| McInnis, Cassie M. | 102 | 3000 | , Marg |  |
| McLean, C. Myrtle | 102 | 3000 | NORTH. | $60 \frac{00}{41}$ |
| *Miller, Bertha M. | 54. | 2117 | 102 |  |
| Mills, Martha | 102 | 30) 00 | Cushing, Alice 101 |  |
| Murray, Bessie M. | 90 | 2617 | Fancy, Lydia |  |

## $4_{a c k}$ RICHMOND.



| Cameron, Marion | 102 | 3000 |
| :---: | :---: | :---: |
| Campbell, Katie | 102 | 3000 |
| Coffey, Julia B. | 100 | 2941 |
| Daigle, Joseph | 99 | 2912 |
| Etienne, George W. | 91 | 2677 |
| Etienne, Mary Louise | 90 | 2647 |
| Ferguson, Ken. R. I | 91 | 2677 |
| Finlayson, Tena J. | 102 |  |
| Gagron, Evangeline | 102 | 3000 |
| Jackson, Annic J. | 102 | 3000 |
| Jameson, Roberta | 102 | 3000 |
| Johnstone, Catherine | 86 | 2530 |
| Kemp, Annie | 76 | 2235 |
| Langley, Gertrude | 80 | 2353 |
| Le ${ }^{\text {Lechath, Jamet }}$ J. | 102 |  |
| McKillop, Kenneth A. | 97 | 2853 |
| McLean, Rebeeca B. | 86 | 2824 |
| Macleod, Marie S. | 89 102 | 2618 3000 |
| McRae, Jessie A. | 73 |  |
| Morrison, Ella H. | 102 | 3000 |
| Murphy, Minnie E. | 102 | 3000 |
| Samson, Florence A. | 102 | 3000 |
| Samson, Mary Louise | 102 | 3000 |
| Samson, G. Fred. | 99 | 2912 |
| *Bissett, Clara P. | 102 | 4000 |
| *Burke, Sarah S. | 102 | 4000 |
| * Coffey, Mary B. | 83 | 3255 |
| * Holn ${ }^{\text {ces, Jessie K. }}$ | 102 | 4000 |
| *Macaulay, Ada | 102 | 4000 |
| *McLean, Mabel | 88 | 3451 |
| *McPherson, Barbara | 83 |  |
| *Morrison, Michael E. | 71 | 2784 |
| *Sutherland, Donald A. | 102 | 4000 |

## Annuttants.

| McDougall, Peter | 4500 |
| :--- | :--- |
| McKay, John | 4500 |
| Boyle, D. R. | 6000 |

## SHELBURNE.

MeLeod, A. N. 10
Allen, Jane R.
102
102
1012
102
46 54
102
92
101
Etherington, Lillian
Lyle, Emily R.
McKay, Maude A.
McKay, Max B.
Rawlings, Adina
Sutherland, Bessie
Turner, Flora
Walls, Gertrude
Barkhouse, M. J.
Bethune, Annie B.
Bower, Edna G.

|  |  |  |  |
| :--- | ---: | ---: | ---: |
| Bruce, J. Wilfred |  | 81 | 23 |

Annuitants.

Goodick, J. D.
McMillan, Elizabeth
4500
4500

## Barringion.

| Black, Pearle M. | 102 | 60 |
| :---: | :---: | :---: |
| Fox, A. D. | 101 | 5941 |
| Frost, Georgia B. | 102 | 6000 |
| Oulton, Millage | 102 | 6000 |
| Bacon, Agnes S. | 102 | 4500 |
| Black, Rose C. | 102 | 45 |
| Brannen, Lennie M. | 101 | 4450 |
| Doleman, T. W. | 101 | 4456 |
| Giffin, Grace M. | 102 | 45 |
| Goodwin, Genesta E. | 102 | 4500 |
| Hogr, Garnet W. | 102 | 4500 |
| Hopkins, Bella L. | 102 | $45^{5} 00$ |
| Jacques, Giles V. | 102 | 4500 |
| Nickerson, L. Isora | 102 | 4500 |
| Nickerson, C. Netta | 102 | 4500 |
| Nickerson, Nettie M. | 102 | 4500 |
| Nickerson, Bessie Swim | +66 | 4500 <br> 29 |
| Ross, Beulah B. | 102 | 4500 |
| Thomas, Elvah B. | 102 | 4500 |
| Brannen, Ruby V. | 101 | 2971 |
| Brannan, Pearle V. | 102 | 3000 |
| Golden, Lola D. | 90 | 2647 |
| Goodwin, Berenice A. | 99 | 2912 |
| *Harding, Muriel A. | $90 \frac{1}{2}$ | 3549 |
| Hopkins, Eva B. | $102{ }^{2}$ | 3000 |
| Hopkins, Anita W. | 102 | 3000 |
| *Kenney, Mary O. | 91 | 3568 |
| Knowles, Meda L. | 102 | 3000 |
| Locke, Louise, M. | 102 | 3000 |
| McGinnis, Annie H. | 102 | 3000 |
| McGinnis, Gladys R. | 102 | 3000 |


|  |  |
| :--- | :---: |
| *Miller, Lois M. | 62 |
| Nickerson, Goldie G. | $100 \pm$ |
| Nickerson, Clara G. | 93 |
| Spanks, Carrie | 101 |
| Spinney, Amy L. | 102 |
| Thomas, Helen L. | 102 |
| Thorburn, Kathryn | 102 |

Annuitants.
Matheson, W. H.

## VICTORIA.

|  |  |
| :--- | ---: |
| MacLean, Christina O. | 97 |
| Fraser, Margaret | 102 |
| McDonald, M. B. | 102 |
| MacLeod, Bessie M. | 89 |
| Hennessey, Martha J. | 102 |
| Huntley, Edna | 98 |
| MacAskill, Flora B | 98 |
| Mact | 100 |

MacAulay, Jessie $\quad{ }_{97}^{100}$

Macdonald, Louise
McDonald, Katherine A.
102
McInnis, Dan $\mathrm{F} \quad 102$
McImis, Wm. C.
MacIntosh, Jessie $\quad 101$
MacIntosh, Annie I. $\quad 101$
MacKenzie, Margaret M. ${ }_{95}^{10}$
McKenzie, Agnes J.
MacKenzie, Annic S.
MacKenzie, Emeline L. $\quad 102$
McLeod, John I.
Mattatall, Daisy
Montgomery, Sadie
Nicholson, D. J.
Ross, May Lily
Ross, Maggie
Watson, Ella May

* Bethune, Roderick 0.

Bethune, Gordon
Boyle, Cecilia M.
*Camphell, Alex. R. 102
Camplecll, Jean E.
Gillis, Margaret 68
*Hutchison, Margaret 102
*McCaskill, Jessie H. 101
*MaceAulay, Katherine 80
MacAulay, Annie F. $\quad 102$
MeCharles, Malcolm 68
Macdonald, Malcolin $\quad 96$
Macdonald, Mary Letitia
Macdonald, Stanley
Mcl)onald, Florence

MacGillivray, Bessie A.
${ }^{*}$ MacGregor, Mary A.
*MacGregor, Willena C .
McIvor, Louise C.
*MacTver, Mary Ane
MacKay, Wm. Kemp
*McLeod, Dan A.
McLeod, Catherine
McLeod, George
MacLeod, Katherine


——
Nen, Yarmouth

102
102
83
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${ }_{25}^{98}$
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73
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78
102
102

| 3000 |
| :---: |
| 3000 |
| 3000 |
| 3568 |
| 3804 |
| 3176 |
| 4000 |
| 529 |
| 3000 |
| 3568 |
| 2412 |
| 4000 |
| 2294 |
| 980 |
| 3411 |

Dorrie, Gladys A.
Goudey, L. Ada
Hardy, Ruby A.

| Kean, Evelyn S. | 102 |
| :--- | ---: |
| MacKay, Janet McP. | .93 |


| Mills, Mary E. | 102 | 4500 |
| :--- | ---: | :--- |
| Moses, Agnes | 102 | 4500 |

Mussells, Dora R. $102 \quad 4500$
Platt, Ada M. $102 \quad 4500$

| Roach, Flo. L. | 102 | 4500 |
| :--- | ---: | ---: |
| Rogers, Nellie S. | 9 | 397 |


| Scott, Martha | $100 \frac{1}{2}$ | 4434 |
| :--- | ---: | ---: |
| Smith, Elsie 3. | 194 | 859 |


| Swaine, Mysie M. | 102 | 4500 |  |
| :--- | ---: | ---: | ---: |
| Wyman, C. Winnifred | 102 | 45 | 00 |
| *Baker, Genie A. | 73 | 28 | 63 |


| Cameron, Margaret | 73 | 2863 |
| :--- | ---: | ---: | :--- |
| Churchill, Addie M. | 102 | 3000 |
|  | 93 | 2736 |


| Churchill, Addie M. | 93 | 2736 |  |
| :--- | ---: | ---: | ---: |
| Crios Marion | 101 | 29 | 71 |


| Crosby, Maron | 101 | 2971 |
| :--- | ---: | ---: |
| *Deveau, Louise | 63 | 2470 |
| Doane, Lavina P. | 88 | 2589 |


| Doane, Lavina P. | 88 | 248 |
| :--- | ---: | ---: |


| Ewan, Hedley J. | 102 | 3000 |
| :--- | ---: | ---: |
| Hamilton, J. E. | 68 | 2000 |


| Hatfield, Lizzie V. | 97 | 28 | 53 |
| :--- | :--- | :--- | :--- |

Hurlbert, Bessie R. $87 \quad 2559$
*Hyson, A. E. $\quad 19 \quad 74$

| McGray, A. Edna | 102 | 3000 |
| :--- | :--- | :--- |
| *McGray, Fannie E. | 102 | 4000 |

Porter, Herman L. $\quad 59 \quad 1735$
Purney, Maria I. $\quad 102 \quad 3000$
Smith, Marjorie C. $\quad 102 \quad 3000$
*Turner, Johanna B, $\quad 91 \quad 3568$
Wetmore, Ralph H. $102 \quad 3000$

Winter, Maude E.
Annuitants.

| Hilton, Mary M. | 4500 |
| :--- | :--- | :--- |
| Munro, J. H. | 7500 |

## ARGYLE.

| D'Entremont, Rhoda M. | 102 | 6000 |
| :---: | :---: | :---: |
| D'Eon, Stillman L. | 11 | 647 |
| Doane, Jennie A. | 102 | 6000 |
| Frost, Isabel F. | 102 | 6000 |
| Morse, E. P. | 89 | 5176 |
| Ricker, Charlotte E. | 1012 | 5970 |
| Scott, Anna | 101 | 5941 |
| Sister Victoire | 102 | 6000 |
| Amirault, Simon A. | 86 | 3792 |
| Amirault, Eva A. | 102 | 4500 |
| Babin, Eugenie I. | 102 | 4500 |
| Bourque, Elizabeth | 102 | 4500 |
| Bourque, Mary A. | 102 | 4500 |
| D'Entremont, Edna C. | 100 | 4411 |
| D'Entremont, Mary A | 102 | 4500 |
| D'Eon, Laura F. | 102 | 4500 |
| Floyd, A. Pearle | 102 | 4500 |
| Frost, Charlotte W. | 102 | $\bigcirc 4500$ |
| MacKay, Nettie M. | 101 | 4456 |
| Melanson, Bertha E. | 102 | 4500 |
| Mius, Mary N. | 102 | 4500 |
| Nickerson, Charlotte | 102 | 4500 |


| Nickerson, Nellie G. | 99 | 4366 | Babin, Mary T. | 102 |
| :---: | :---: | :---: | :---: | :---: |
| Pennington, J. G. | 72 | 3175 | Belliveau, Genevieve | 102 |
| Pothier, Therese E. | 102 | 4500 | Belliveau, Mary | 102 |
| Purdy, Lennie S. | 77 | 3369 | *Blanchard, Sophie | 54 |
| Scott, Margaret | 101 | 4456 | *Bourque, Rosie | 102 |
| Sister M. Elise | 102 | 4500 | * Brannen, Ruby V. | 21 |
| ، " Eugrenie | 102 | 4500 | D'Entremont, C. M. | 102 |
| Surette, Rose D. | 102 102 | 45 <br> 45 <br> 45 | D'Entremont, Hattie L. | 91 50 |
| Thibodeau, Beatrice | 102 | 4500 | Goodwin, Rosa P. | 102 |
| Thomas, Ida M. | 101 | 4456 | Hogg, Jennie A. | 102 |
| Walsh, Margaret | 102 | 4500 | Levandier, V. D. | 89 |
| Amirault, Rose I. | 102 | 3000 | Pothier, M. Annie | 102 |
| Amirault, Terese M. | 102 | 3000 | *Reeves, Flora D. | 51 |
| Amirault, Muriel A. | 102 | 3000 | *Ross, Georgie D. | 561 |
| *Babin, Chantale | 102 | 4000 | Shields, Dorinda F. | 102 |
| Babin, Bertha | 78 | 2294 | Surette, Nemerise | 102 |

## EDUCATIONAL LEGISLATION, 1910.

## AMENDMENTS TO THE EDUCATION ACT.

$N_{0.2}$
AD
Act to Consolidate the Amendments to The Education Act. ${ }^{10}{ }_{m_{8}:-}^{B_{e}}$ it enacted by the Governor, Council, and Assembly, as fol1900 , The Education Act, Chapter 52 of the Revised Statutes, is hereby amended in the manner set forth in Schedule A 2. The enactments set forth in Schedule B hereto are repealed.

## SCHEDULE A.

Section 5. -By adding thereto the following subsection:by "(21.) On the recommendation of an inspector, supported Parts evidence, that the union of any two or more sections or out of sections will effect a saving in the amounts to be paid the ${ }^{o f}$ the municipal school fund and the provincial aid grant, cation Council' may, notwithstanding any provision of the EduMunicipal, make regulations for the granting out of the said of the in al and provincial grants such amounts as in the opinion adding inspector are necessary to maintain the said union by from the conveyance from beyond a distance of two miles quires the school house, provided the respective amounts so rewise be are less than the respective amounts which would othere drawn from the same sources." (1903-4, C. 8, S. 2.)"

By inserting immediately after section 6 the following section:

## Advisory Board of Education.

" 6 A . (1) There shall be a board, consisting of seven per sons, which shall be known as "The Advisory Board of Educk tion" and shall perform the duties mentioned in this section
(2) Two members of the Board shall be elected by the in licensed teachers engaged in teaching in the public schoo ${ }^{19}{ }^{\circ} 0^{6}$ attendance at the Provincial Educational Association, yon shall be licensed teachers actually engaged in teaching in by Scotia; five members of the said Board shall be appointed the Governor-in-Council.
(3) The duties of said Board shall be to advise the council and the superintendent as to the following matters;-
(a) Text books and apparatus for use in the schools, bools for school libraries.
(b) Qualification and examination of teachers.
(c) Courses of study for the public schools and the standar for admission to county academies and high schools.
(d) The classification, organization and discipline of the normal school, county academies and the public schools.
(e) Such other educational matters as may from time to do time be referred to them by the superintendent or the coll
(4) Members of the Board shall hold office for two $y^{9 g^{5(4)}}$ but shall be eligible for re-election or re-appointment.
(5) The Board may make regulations for the time, por ${ }^{19 y^{2 l}}$ and conduct of its meetings. Four members of the shall constitute a quorum.
(6) The members of the Board shall receive from tha ald $^{\text {an }}$ provincial treasury such sums as will indemnify them $\mathrm{m}^{\text {for }}$ tell expenses incurred by them respectively by reason of dance at the meetings of the Board." (1906 c. 5.)
Section 11, sub-section (b) By repealing it and substitutipg therefor the following subsection:-
"(b) To annex to any incorporated town for school pur" poses, territory lying beyond the limits of the town $a^{n^{d}}$
forming part of any other school section, and also any existing school section or part of a school section." (1903, c. 6, s. 1.) Sevection 14 -By repealing it and substituting therefor the following section:-
"14. Every district board shall at its annual meeting determine, subject to the recommendation of the inspector, What sections under its supervision are entitled to special aid as poor sections, during the following school year." (1903, c. 6, \&. 2.)

Sthection 16 , sub-section (2)-By repealing it and substituting the following subsection:-
"(2) Notice of the next annual school meeting after any if sub-division or union, or of a special annual school meeting, if the date of the regular annual meeting is past or inconvenient, shall be given by the inspector; and such meeting shall elect of the of three trustees and transact all the other business year, regular annual school mecting for the ensuing school year, for the new section or sections.' (1903, c. 6, s. 3; 1906, c. 8, s. $1 ; 1909$, c. 18 , s. 4. )
${ }^{8}$ Soection $^{\text {bstition }} 21$, sub-sections (1) and (2)-By repealing them and ating therefor the following sub-sections:-
" 21 (1). Except as in this section otherwise provided the regular annual school meeting of every school section shall be held in the school house of the section, on the last Monday in
(2) The Council may in the case of any inspectorial division, ${ }^{\text {County }}$ or school section, fix an earlier day for the holding of meeting. (1902, c. 39, ss. 1 and 2).
${ }^{1}$ Soection $^{\text {Senging }} 23$.-By repealing it and substituting therefor the fol-
the " 23 (1) The resident ratepayers, male and female, of own section present at any school meeting shall elect from their ing, aumber or otherwise a chairman to preside over the meetand a secretary to record its proceedings.
shall The chairman shall decide all questions of order and
(2)
teapter the votes of resident ratepayers only, except as in this
bave he shall not vote except in case of the election of trus-
the casting vote. (1907 c, 38, s. 1. .)" "tie, when he shall

Section 24, sub-section (1).-By repealing it and substitutidg therefor the following sub-section;-
"24 (1) If any person who offers to vote at an annual of other school meeting is challenged as not qualified, the chalin man presiding at such meeting shall require the person ${ }^{\text {so }}$ offering to make the following declaration:
"I do declare and affirm that I am a ratepayer residing in this school section; that I have paid all sectional school ${ }^{\text {s }}$ te for which I have been rated and that I am legally qualified to vote at this meeting."

Every person who makes such declaration shall be permitted to vote on all questions proposed at such meeting; but if ${ }^{\text {a }}$, person refuses to make such declaration his vote shall be ${ }^{\text {re }}$ jected.'" (1907 c. 38, s. 3, 1906 c. 8, s. 2.)
Section 28, sub-section (3).-By repealing it and substitutipg therefor the following sub-section:-
"(3) If there are no trustees in a section the inspector of
 there are less than fourteen ratepayers in the section, on requisition of the majority of ratepayers, call a special al meeting under the foregoing provisions and limitation (1903 c. 6, s. 4).
Section 37, sub-section (2).-By repealing it and substitutind therefor the following sub-section:-
"(2) The board of trustees thus appointed shall, if ne ${ }^{e^{45}}$ sary or if required by the inspector, call a meeting of the the payers of the section, in the manner provided for calling annual meeting, and such meeting shall transact all meetiob except the election of trustees required of the annual meetile and in the same manner." (1903, c. 6, s. 5).
Section 42.-B realing it and substituting therefor the fol lowing section:-
"42.-The trustees of any section, with the permission of the inspector of schools, may in their discretion, admit to ${ }^{5 \mathrm{c}^{\text {d }} \text { dide }}$ privileges, pupils whose parents or guardians reside ou ${ }^{400} 0^{1 /}$ the section, and if the trustees deem it proper, they may e $8_{8}$, from such pupils a reasonable tuition fee. (1904 s. 3).
theection 55, sub-section (b).-By repealing it and substituting erefor the following sub-section:-
"(b) To contract with and employ a licensed teacher or teachers for the section, and where necessary licensed assis$t^{\text {tants, }}$ for a period not less than one year; provided, however, that for special cause, with the consent of the inspector, trustees may employ a teacher for a shorter period.' (1907, c. 38 , s. 4.) By
$\mathrm{in}_{\text {serting immediately after Section } 55 \text {, the following section;- }}$ fre 55 A . Every public school building shall be available, free of charge, for the purposes of the local technical schools of schools for miners and engineers, provided that such use of public school buildings shall not interfere with the carrying ${ }^{\text {on }}$. 1.) schools under the Act hereby amended. (1909, c. 18, Section
section:-
$59 .-$ By repealing it and substituting the following

Majesty The secretary of trustees shall give a bond to His apecty with two sureties, subject to the approvai of the indutiog, in a sufficient sum for the faithful performance of the spect of his office and such bond shall be lodged with the inin a tor, who may at any time require a new bond, or a bond may arger sum in the place of the bond as lodged. Such bond and be in the form in the fifth schedule or to the like effect, acconless sooner terminated by the sureties or either of them anding to law, it shall not be necessary to give any new bond, long ually or otherwise, unless required by the inspector, so as the secretary is re-elected to office." (1909, c. 18, s. 2.) Seing ${ }^{\text {Soin }}$ 63.-By repealing it and substituting therefor the fol-section:--
" 63 . The trustees shall have power, when authorized by a ment meeting, to borrow money for the purchase or improvebuild of grounds, for school purposes, or for the purchase or shall bg of school houses; and all such amounts, so borrowed, $i_{n s t a l}$ be repaid with interest by such number of equal yearly meetments, not exceeding twelve, as is determined by such theting; and the money so borrowed shall be a charge upon By in atable property in the school section.' (1903 c. 6, s. 6.) ${ }^{\prime}$ inserting immediately after Section 67 the following section:${ }^{\text {or }}$ " 67 A . The time employed by the principal of the schools 3 supervisor of the schools, of any school section in super-
vising or grading the schools, the time employed by teacherf of his staff who are required to assist in the grading of any the departments, the time teachers are in attendance at cernd educational institutes with the consent of their trustees, ${ }^{\text {a }}$ the time lost by the necessary closing of a school on accon ${ }^{0} \mathrm{~g}^{1 l}$ of such conditions as the presence of contagious disease, be reckoned as authorized teaching time in lieu of actual tem and $^{\text {n }}$ ing on authorized teaching days, according to the condin $\%$ prescribed by the Council." (1901 c. 37, s. (2); 1906 c. 8 , $^{\text {s. }}$.
Section 68.-By repealing it and substituting therefor the fol lowing section:-
"68. Every legally qualified teacher employed in a public school, conducted according to law, shall be entitled to rel annually from the Provincial Treasury, the following ${ }^{\text {sht }}$ or or such proportion thereof as the number of days taug $19 y^{4}$ such teacher bears to the prescribed number of teaching in in the school year. Said sum shall be paid in semi-ann $n^{n a}$

" Academic, in high school of prescribed status " Academic, when principal of the high school of prescribed status in a section having at ${ }_{210} 0.00$ least three departments

$$
(1906, \text { c. } 6 .)^{\prime}
$$

-By repealing it and substituting therefor the fol lowing section:-
"69. Any teacher of class Academic, $A$ or $B$ who has $g_{p r 0^{19}}^{40^{2}}$ uated from the rural science course in affiliation with the ribed vincial Normal School, in the course of instruction pre by the Council, and is regularly employed in a public ${ }^{c}$ with the appropriate equipment giving a special cour ${ }^{50} b^{\text {d }}$ instruction in agriculture, as prescribed by the Councli, in the distribution of the provincial grant referred to ${ }^{10}$ next preceding section be ranked on the pay list of tha ${ }^{1}$, grant as, respectively, of the lower, higher or highest mup mip teachers of classes A and Academic according to the there ${ }^{10}{ }^{9}{ }^{3}$ to of the school and the agricultural instruction the shall be d" ported by the inspector of schools whose duty it "," "g00 inspect such schools and classify the same as "fair," or "superior." ( 1905 c. 19, s. 1; 1906, c. 8, s. 3.)

Section 71.-By repealing it and substituting therefor the fol-section:-
" 71 . When the trustees or commissioners of any school section provide a department for manual training in any of the mechanical or domestic arts, with adequate equipment for at least twelve pupils at the same time, and have employed a teacher certified by the Council to be competent to give practical instruction therein, and have caused such instruction to be given free for one session of two hours each week to the residents of the section, and have in these and in all other re${ }^{\text {spects efficiently conducted the public schools of the section }}$ ${ }^{1 n}$ accordance with law, then the Council may pay out of the Bevincial Treasury to such trustees or commissioners, in ${ }^{\text {Bemi-annual instalments or otherwise, as determined by the }}$ pupil a sum of fifteen cents for each two-hour lesson to each vincil, provided that the whole amount so paid out of the Proin incial Treasury to such trustees or commissioners shall not, of any year, exceed six hundred dollars; except in the cases of any section the schools of which are affiliated with the Provincial Normal School and of the City of Halifax, in which two cases the amount shall not in any year exceed twelve hundred By. (1901 c. 37, s. 1.)
${ }^{B y}$ in $_{\text {serting immediately }}$ after Section 71 the following section:-"'71A.-(1) Every poor section determined under the ampisions of section 14 of the Act hereby amended and the mendments thereto, which
(a) as isolated so as to be clearly impossible to be united With or as isolated so as to be cleary impossible to be united
Bections,
at (b) is rated for sectional school rates on property assessed a value of not more than $\$ 3,000$,
and (c) has not within its bounds more than twelve families, of (d) votes and collects for current school expenses at a rate $\mathrm{ti}_{\mathrm{on}}^{\mathrm{n}} \mathrm{n}$ l less than two per cent on the property ratable for secschool rates, shall be known as a special poor section.

extra aid provided for poor sections by this Chapter as may ${ }^{\text {be }}$ recommended by the Inspector; provided, however, that ip ted case shall the said grant exceed the amount voted and collece the by the section as sectional school rates, nor in any case the sum of $\$ 60.00$.' ( 1908 c. 13 , s. 1.)
Section 72.-By repealing it and substituting therefor the fol lowing section:-
"72 (1). The clerk of the municipality of every coupdy or district shall annually add to the amount required for for sicb purposes, but distinct from all other amounts required for sos purposes, a sum sufficient after deducting the estimated to of collection and probable loss, to yield an amount equall thirty-five cents for every inhabitant according to the last chefor of the municipality and of all incorporated towns which of dis incorporation territorially formed part of such county or trict.
(2) The said sum shall be divided between and borne ${ }^{\text {by }}$ the municipality and the incorporated towns in the same pron portions as the county fund, under the provisions of the $T 0$ Incorporation Act, and the Assessment Act and amend mopr thereto respectively, and shall be collected in the same mal as other rates and taxes.
(3) Notwithstanding the provisions of any statute, every incorporated town shall annually, on or before the thirth the day of June, pay to the treasurer of the municipality of ith county or district of which it before incorporation teritor formed part, its proportionate part of the said sum.
(4) The sum so rased by the municipality and incorp or ated towns shall be paid out annually for the support of sche super the treasurer of the municipality upon the order of the ad. tendent, and shall be called the Municipal School
 increase the municipal school fund to any amount not excer sixty cents for every inhabitant according to the last ${ }^{4 t t^{t} b^{0}}$ of the municipality and incorporated towns, provided Council of every incorporated town affected by the inctry be in such resolution, or if such concurrence cand by obtained that the Governor-in-Council, upon applicati ${ }^{10} 0^{3,3}$ the municipality concurs in such proposed increase. c. 6 , s. $7 ; 1903-4$, c. 8 , s. 4.)

Section 75, sub-section (2) .-By repealing it and substituting therefor the following sub-section;-
"75-(2) Every school section shall be entitled to participate therein at the rate of twenty-five dollars per year for every fivensed teacher employed, and a sum not exceeding twentyfive dollars, according to the recommendation of the Inspector for each school garden kept up to the standard of form and efficency prescribed by the Council, and the balance of such fund shall be distributed among the school sections according to the average number of pupils in attendance at schools in such sec${ }^{\text {tins, }}$, respectively, and the length of time at such schools have been in operation"during the school year, but no such school section shall receive any additional allowance in respect to any school ${ }^{0}{ }^{\circ}$ account of its having been in operation more than the proscribed number of days in any year."' (1905 c. 19, s. 2.)

> Section
then 76, subsection (1) .-By repealing it and substituting erefor the following sub-section:-
Suberin (1) Subject to the provisions of this Chapter, the title erintendent shall allow to the trustees in any section, enmun to special aid as a poor section, one-half more from the and icipal school fund than the allowance to other sections, this d teachers employed in such poor sections shall receive onethird more from the provincial grant. (1904, c. 8, s. 5.) ${ }^{1} \begin{aligned} & \text { Section } \\ & \text { 77. -By } \\ & \text { section:- }\end{aligned}$
the "77 .-Any amount required by a section over and above pal sums provided out of the Provincial Treasury and municisehschool fund, for the support and maintenance of a public objector schools during the school year, including the following ects, that is to say:-
(a)
the purchase or improvement of school sites or grounds.
of (b) the purchase, erection, furnishing, cleaning or repairing oo houses and outbuildings,
rent of buildings or lands,
(d)
insurance on school property,
for $^{\text {(e) }}$ the the purchase of fuel, prescribed school books, books school library, maps and apparatus,
(f) repayment of money borrowed by the section and interest thereon,
(g) teachers' salaries and pensions.
(h) compensation to and repayment of expenses incurred by the trustees, for or in discharge of the duties imposed $\mathrm{up}^{0 \mathrm{D}}$ them by the provisions of this Chapter as to compulsory attend ance at school, and the cost of conveying children to school, $a^{\text {al }}$
(i) any other expenditure necessary in providing an eff cient school or schools in accordance with the provisiond this Chapter,
(j) any necessary expense for the periodical dental sod general medical examinations of the pupils attending school, shall be determined by a majority of the ratepayers present a regularly called school meeting. (1902, c. 39, s. 3 ; c. 8 , s. 4 ; 1907, c. 38 , s. 5.)

Section 78.-By adding thereto the following sub-section"
"(3) Sections maintaining an ungraded school with orid teacher shall not participate in the distribution of the $b s$ municipal school fund in regard to days' attendance made at the enrolled pupils for a greater number of days than eif thousand, except in cases in which an assistant teacher is ployed by the trustees." (1904, c. 8, s. 5.)
80. By repealing it and substituting therefor the fol lowing section:--
"80.-(1) Notwithstanding anything contained in the tr preceding sections, all the real and personal property ${ }^{\text {as }}$, ${ }^{641}$ th according to the municipal assessment roll situated whed boundaries of school sections named in the second to this Act, excepting dyke lands, shall be liable for and of schools in such sections witho school rates for the support of schools in such sectionty regide regard to the place where the owners of such proper shoo ${ }^{\text {te }}$ and such property shall not be liable to sectional scho those for the support of any school or schools other than and prop schoos by persons tions, and property owned by situate with in within any of the said school sections and situate within county, including cities and incorporated towns it on geographical limits of the county outside of such sectich ${ }^{\text {b }}$ be ratable for school purposes in the section in whic situate.
(2) In all the school sections in the County of (except the City of Halifax and the town of Dartmouth
the real and personal property assessed according to the municipal rate roll situated within the boundaries of such school sections, excepting dyke lands, shall be liable for sectional school rates for the support of schools in such sections without regard to the place where the owners of such property reside, and such property shall not be liable to sectional school rates for the support of any school or schools other than those of such school sections; and property owned by persons residing Within the limits of the school section and situated within the County of Halifax (including the City of Halifax and any incorporated town within the geographical limits of the County of Halifax) outside of such section, shall be ratable for school purposes in the section in which it is situate.

> (3) Between the City of Halifax and any incorporated town located within the geographical limits of Halifax County the provisions of section 79 shall apply.
(4) The Council of Public Instruction may, upon the re${ }^{\text {commendation of }}$ the Superintendent, add to said second petititule, the name of any school section which applies by, (1903 of a majority of its ratepayers to be added thereto." (1903, c. 4, ; 1903-4, c. 9, s. 2.)
${ }^{\text {Sopection }} 85 .-$ By repealing it and substituting therefor the fol-section:-
" 85 .- Every regularly ordained minister occupied in ministerial work, and every unmarried woman and widow, ${ }^{\text {shall }}$ be exempt from sectional school rates on all property to the value of five hundred dollars, but shall be liable in respect to any excess over that sum.

Provided, however, that the exemption allowed by this section shall not apply in cases where the rate is upon the real estate and there is a male relative capable of managing said property, of the age of twenty-one years, residing with the Widow, unmarried woman or wife, upon the property so assess(1905, c. 19, s. 3.)
$\mathrm{L}_{0}$ Section 91 .-By repealing it and substituting therefor the fol-section:-
"'91. The secretary of trustees shall post up copies of the ${ }^{\text {collector's roll in at least three public places in the section as }}$ ${ }^{8} 00 \mathrm{n}$ as possible after he receives the same from the trustees, on shall file a copy thereof with the municipal clerk and shall, c. request, file a copy thereof with the inspector." (1909,

Section 93.-By repealing it and substituting therefor the fol lowing section:-
"93. The secretary of trustees shall demand the severers amounts from the persons so rated in the collector's roll, , der in default of payment such amounts shall be collected undel the provisions of "The Assessment Act."

And amounts so rated in respect to real property shall $\mathrm{col}^{\circ}$ stitute a lien upon such property, which may be enforced under the provisions of "The Assessment Act." (1905, c. 19, s.
Section 99.-By repealing it and substituting therefor the fol lowing section:-
"99.-(1). In any school section in which, up to the fir ${ }^{\text {t }}$ day of July, the ratepayers neglect or refuse to make adequat provision for the maintenance of a school (including the ${ }^{\mathbb{D}^{e}}$ cessary equipment and repairs to a school house or the prorisi of a temporary school room) during the following school y the trustees of the school section shall name the sum of mor which they deem sufficient therefor, or which may be necessarly to supplement an inadequate sum already voted by the rall payers, and such sum shall be submitted to the district bor of school commissioners or to the committce of the said bogid appointed under section thirteen of the act hereby amen ${ }^{\text {da }}$ and be subject to their approval. If the said board or ${ }^{0}$ b mittee thereof approves the said sum and orders it to be be lected, the said trustees shall promptly levy and collect thed sum so approved in the same manner as if it had been the for school purposes at a regular school meeting called for purpose.
(2). If the trustees of any section neglect or refuse to apply to the board of commissioners or its committee under to authority of the foregoing clause, or if they neglect or refus provide a school in case necessary funds have been voted of the ratepayers or approved by the district commissioners. its committee, or if up to the first day of July no annual meetir of the section has been held or if no trustees have been electel it shall be the duty of said board or its said committee, as ${ }^{50}$解 appoint one or the conditio interested in maintaining a $\mathrm{ac}^{\mathrm{cc}^{\mathrm{h}} \mathrm{de}^{\mathrm{d}}}$ in said section as a new board of trustees for the remin $0^{0}$ of the then current school year, and the trustee or truster the appointed shall have all the powers of trustecs elected by ratepayers; and the duties and powers of the trustees, if diring elected by the ratepayers, shall thereby be suspended said period.
(3) The said trustee or trustees so appointed shall forththe name the sum of money which is deemed sufficient for cient support of the school for the remainder of the year (if suffiestimate mey has not been already voted) and submit their apprate to the board or its committee for its approval, and if commed and ordered to be collected by the said board or its said mittee, the said sum so approved shall be collected by the been new trustee or trustees in the same manner as if it had een voted for school purposes, at a regular school meeting. $\mathrm{i}_{\mathrm{s}}$ Provided however, that if the district board or its committee is unable to secure a suitable trustee or trustees, they shall notify the inspector of that fact, in which case the inspector vidl have all the powers of trustees for the said period as prothe in this section, and shall forthwith estimate and name ane sum of money which he deems sufficient for the mainten${ }^{\text {ance }}$ mit of the school for the remainder of the year, and shall submit his estimate to the said board or its committee for its approval astimate to the said board or its committee for its apmittomunicated to the inspector by the said board or its committee in writing.
(4) The inspector shall certify the said sum to the municithe clerk who shall levy the said sum so fixed on the section in sche same manner as if voted for school purposes at a regular ${ }^{8}{ }^{8} h_{001}$ meeting called for the purpose, and shall prepare a col${ }^{\text {cipal }}$ collectors shall collect such rates and taxes in the same mander and with the same remedies and for the same remun${ }^{\text {eration }}$ as in the case of other rates and taxes, and shall return same to the case of other rates and treasurer.
the (5) The amount so collected shall be paid on the order of of the inpector to meet the necessary expenses for the support school in the said section.
(6) Nothing in this section shall be construed to relieve trustees from the penalty imposed by section 39 of the Act $\mathrm{By}_{\mathrm{y}}$ add
"109 (1) 年 ${ }^{\prime}{ }^{l_{0}}{ }^{0} 9_{A}$. (1). Subject to the authority of the Trustees the durher shall have a general oversight over the school premises Whing school hours, and may exclude therefrom all persons Who disturb or attempt to disturb the school work."
"(2) Every person who, in or upon any school premises
uses profane, threatening, abusive or improper language to wards the teacher, or speaks or acts in such a way as to inplair the maintaining of discipline by the teacher in such school, shall be liable to a penalty of not less than five dollars ${ }^{\text {por }}$ more than twenty dollars, and in default of payment, to $\mathrm{in}^{-}$ prisonment for a period not exceeding thirty days." (1905, c. 19.)

Section 120, sub-section (1), clauses (b), (c) and (d).-By re pealing them and substituting therefor the following sub-sections:-
(b) For the second teacher, three hundred dollars, provided there is an average annual attendance of at least thirty-five regularly qualified high school students pursuing a full course:
(c) For the third teacher, three hundred dollars, provided there is an average annual attendance of at least seventy regularly qualified high school students pursuing a full course
(d) For the fourth teacher, two hundred dollars, provided there is an average annual attendance of at least one hundred, regularly qualified high school students pursuing a full course. (1906, c. 8, s. 6.)

## PART II.

## Teachers' Annuities.

By adding after section 124 the following sections:-
"125. Teachers who have taught in the public schools of Nova Scotia for thirty-five years or who have attained the ${ }^{\text {ag }}$ 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, ho ever, that no teacher shall receive more than $\$ 150.00$ per ${ }^{\text {ab }}$ num under the provisions of this section.
> "126. Teachers who, after twenty years' service, become totally disabled or incapacitated from any cause, may, satisfactory proof of such total disability or incapacity, retir so long as the total disability or incapacity exists, and be entitled to receive the annuity mentioned in the next $\mathrm{pr}^{\text {re }}$ ceding section.
> "127. School boards, municipal councils and trustees gre $^{\text {I }}$ hereby empowered to supplement such annuities under per sion or superannuation systems provided by the Council,
regulations approved by the Council, and may also similarly provide for other teachers or educational officers employed by them who may not be beneficiaries under the next two preceding sections.
"128. Moneys payable under the provisions of this part, shall not be transferable and shall not be liable to be taken by legal process to satisfy any debt or judgment.
"129. The Council may from time to time make regulations for carrying into effect the provisions of this part. Such regulations shall be published in the Journal of Education.
"130. School boards, municipal councils and trustees are hereby empowered to enter into any agreement with any anuity company to undertake the payment of such annuities under such agreements as may be approved by the Council.' ( 1906, c. $7 ; 1907$, c. 38, s. 7 .)

## PART III.

Consolidation of Schools.
131. The Council of Public Instruction is authorized to expend a sum not exceeding thirty-six thousand dollars for the purpose of assisting in consolidating school sections and the schools therein, and in arranging for the conveyance of pupils to and from such consolidated schools.
132. Such sum shall be expended in accordance with regulations to be made by the Council, and shall be paid out of the Provincial Treasury upon the order of the secretary of the Council.


#### Abstract

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


## PART IV.

## Schedules.

## SECOND SCHEDULE.

## INSPECTORIAL DIVISION, NO. 1.

All sections in the Municipal District of Halifax.

## INSPECTORIAL DIVISION, NO. 2.

LUNENBURG AND NEW DUBLIN.

| No. | 2. | First Peninsula. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| No. |  | Centre Range.. | $\stackrel{\text { No. }}{ }$ | 44. | . Meisner's. . Oak Hill. |
| No. | 7. | . Garden Lots | No. | 57. | Lr. Second Peningun |
| No. | 16 | Lower La Have. | No. | 60. | . Clearland. |
| No. | 22. | North West. | No. | 80. | Hebb's Mills. |
| No. | 24. | Whynacht. | No. | 86. | Wileville. |
| No. | 25 | Mader's Cove. | No. | 197. | Pine Grove. |
| No. |  | Mahone Bay. | No. | 107. | Upper Woodstock. |
| No. | 30 | Oakland. | No. | 109. | Rosebud. |
| No. | 35 | Parkdale. | No. | 111 | Lr. Woodstock. |

south queens.
No. 9....................... . . . Milton.
INSIPCTORIAL DIVISION, NO. 3.


INSPECTORIAL DIVISION, NO. 4.
anNapolis, west. digby.
No. $45 \ldots .$. . Allen River.

| digby |  |  |
| :---: | :---: | :---: |
| No. | 18 | Weymouth Bridgg• |
| No. | 19 | Weymouth |
| No. | 22 | Sissiboo Falls. |
| No. | 28 | Digby. |

## INSPECTORIAL DIVISION, NO. 5.

Kings
No. $\quad 24 . \ldots .$. Waterville C).
No. $37 . . . .$. . . Cold Brook.
No. $\quad 79 \ldots \ldots$. Grand Pre.
No. 82 ........ Middle Pereaux.


## INSPECTORIAL DIVISION, NO. 6.


guysboro.

INSPECTORIAL DIVISION, NO. 7.

| No No No |  |  |
| :---: | :---: | :---: |
| N0. |  |  |
|  |  |  | Richmond.


| No. | $21 \ldots \ldots$. Walkerville. |
| :--- | :--- |
| No. | $32 \ldots .$. Seaview. |

## INSPECTORIAL DIVISION, NO. 8.

No.
NORTH INVERNESS.
58....... . Whycocomagh.

$$
H_{0}, \quad \text { victoria. }
$$

$1 . \ldots .$. Baddeck. No. $29 \ldots \ldots$. South Gut.
INSPECTORIAL DIVISION, NO. 9.

| No |  | PICTOU, SOUTH. |
| :---: | :---: | :---: |
| No. |  | Hall. |
| $\mathrm{N}_{0}{ }^{\circ}$ |  | Marshdale. |
| N0. |  | Riverton. |
| N0. |  | Fox Brook. |
| $\mathrm{N}_{0}$ |  | . Springville. |
|  |  | -Bridgeville. <br> .Glencoe |



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

INSPECTORIAL DIVISION, NO. 10.

## CUMHERLAND.

No. $\quad 24 \ldots \ldots$ Upper Pugwash
No.
No. $27 \ldots .$. . Roslin.
No. $\quad 29 \ldots \ldots$ Victoria.
No. $\quad 39 \ldots .$. . Warren.
No. $45 \ldots .$. . . . Macean.
No. $62 \ldots$. ..... East Mapleton.
No. $\quad 66$. . . . . . . Wyndham Hill.
No. 81......... River Philip.
No. $\quad 90 \ldots \ldots$. . . ${ }^{\text {Normington. }}$
No. 93........ . Lake Road.
No. 107......... Clifton.
No. 115...........Black River.

No. $117 \ldots$. . . . Springhill JunctionNo. 119......... . Valley Road.
No. 123......... South Pugwash.

PARRSBORO.

| No. | 3 | New Prospect. |
| :---: | :---: | :---: |
| No. | 4. | .Green Hill. |
| No. | 5. | .Black Rocks. |
| No. | 6. | . Cross Roads. |
| No. | 14. | . Advocate. |
| No. | 17. | Lakelands. |
| No. | 20. | Sugar Hill. |

## INSPECTORIAL DIVISION, NO. 11.

CAPB BRETON.

| No. | 8 | Lakevale. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| No. | 65. | Catalone. | No. | 71 | ttle Lorraine. |
| No. | 67. | . Clark's Road. | No. | 72 | Ltle Lorrain |
| No. | 68. | . Mainadieu. | No. |  | West Louisburg. |

INSPECTORIAL DIVISION, NO. 12.
COLCHESTER, SOUTEX.
COLCHESTER, WEST.

| No. | 3 | .Upper Onslow. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| No. | 12. | Nutby. | No. | , | . Pleasant Hills. |
| No. | 14. | . Central North River | No. | 10 | . Castlereagh. |
| No. | 21. | Riversdale. | No. | 15 | Acadia Mines. |
| No. | 24 | Cambden. | No. | 18. | Folly Village. |
| No. | 35 | Brookfield. | No. | 20. | Masstown. |
| No. | 38. | Alma. | No. | 23. | Folly Lake. |
| No. | 45. | Coldstream | No. | 24. | Londonderry |


| No. | $6 \ldots \ldots .$. French River. |
| :--- | ---: |
| No. | $8 \ldots \ldots$. Murphy's. |
| No. | $21 \ldots \ldots$. Brule. |
| No. | $29 \ldots \ldots$. Denmark. |

## THIRD SCHEDULE.

## Teacher's Oath.-(Section 105.)

" "It , ......................... a duly licensed teacher of class

Whool in With law, fon,
 during the school year, ending July, 19
days during SECOND half-year; that in addition I war and wor employed as specified in the
regulations regulationg SECOND half-year; that in addition I was employed as specified in the
semely: $\ddagger$. of the Council, Nos................ for*

belief by in every particular as prescribed register has been faithfully and correctly Period the total every particular as prescribed, and that to the best of my knowledge and ${ }^{3}$ Cherlod Was* cordance with the statutes and regulations and that there is no collusive understandany portion of the agreement is to be made of no effect.

Teacher.


## FIFTH SCHEDULE.

[^1]and regulations as now are or may be from time to time established for or in resped the said office; and if on ceasing to hold the said office, he shall forthwith on demand hand over to the trustees of the said school section or to his successor in office, on in order of the trustees, all books, papers, moneys, accounts and other property in possession by virtue of his said office of secretary, then said obligation to be otherwise to be and continue in full force and virtue.

| (Name of Secretary) | (Seal.) |
| :--- | ---: |
| (Names of sureties) | (Seals.) |

Signed, sealed and delivered in the presence of . . . . .
(Name of Witness.)

> SCHEDULE "B."

Enactments repealed by Section two of this amending Act.
Acts of $1901 \quad$ Chapter 37.
Acts of 1901, Chapter 38.
Acts of 1902, Chapter 39.
Acts of 1903, Chapter 4.
Acts of 1903, Chapter 5.
Acts of 1903, Chapter 6.
Acts of 1903, Chapter 22.
Acts of 1903-4, Chapter 8.
Acts of 1903-4, Chapter 9.
Acts of 1905, Chapter 19.
Acts of 1906, Chapter 5.
Acts of 1906, Chapter 6
Acts of 1906, Chapter 7, except section 8.
Acts of 1906, Chapter 8.
Acts of 1907, Chapter 38
Acts of 1908, Chapter 13.
Acts of 1909, Chapter 18.
Acts of 1909, Chapter 19.

# MORE important regulations of the as finally amended since the CONSÓlidation in the manual of i90. 

ACADIAN SCHOOL REGULATIONS, 1908.

Ordered By the C. P. I.

1. 

 ${ }^{\circ}$ of equeb ind whose duties will be supplementary to those of the regular Inspector Perintendectorial division. It shall be his special duty- to aid the Inspectors and audent in making the schools in French settlements more efficient in every
him to by law, his command of the French language being intended to him to supplement as circumstances require, the worl, of the Inspectors. ln mith the Inspoct out these general directions he shall, as far as possible, co-operate of and aspectors, and like them also report monthly on his work to the SuperintendAendat acadian the end of the year present a report on the state and progress of education ations for such impols in the different parts of the Province, with reasoned recom2. for such improvements as he may be able to specify.
tive in in thilingual course of a few weeks shall be given free each year during vacation the Proval course of a few weeks shall be given free each year during vacation exge of teach English colloquially to French pupils coming to school without a knowade of English; in order that by the time the pupils have completed the first fourthreafter in public school program, all work of instruction can be carried on effectively te of five English. Travelling expenses to and from this course shall be paid at five cents per mile.
 the trustees are authorized to allow the use of the prescribed French Readers pupils, provided the teacher is capable of giving colloquial instruction in end of acified in the foreroing regulation, and is giving it so effectively that iough the of the fourth year, the pupils can henceforward be effectively instructed Perative on any pupil. English language. But no language except English shall Ber 4 . on any pupil.
 scho be the most expeditious and economical method of acquiring a new lanany ${ }^{\text {and }}$ trustees shall continue to be free to employ English speaking teachers such conditions as specified in the foregoing regulations.

The Acadian Commission.
"Vivi'That the foll ${ }_{\text {Owing }}$, gentlemen be appointed as Commissioners under the pro-
4 Chapter 12, Revised Statutes, 1900, for the purpose of investigating the
"best methods of teaching English in the schools situate in the French districts of "the province and generally to make any suggestions to the Educational Departmal "which would have the effect of bringing about greater educational progress in such "districts.
"Rev. P. Dagnaud, of Church Point.
"W. E. Maclellan, of Halifax.
"Prof. A. G. Maedonald, of Antigonish.
"Rev. W. M. LeBlanc, of Arichat.
"Alexander McKay, Supervisor of Schools, Halifax.
"Hon. A. H. Comeau, of Meteghan River.
"Rev. A. E. Mombourquette, of East Margaree.
"M. J. Doucet, M. P. P., Grand Etang."
The Commission was promptly appointed, and after examination of witnesse ${ }^{5}$ nd due deliberation, the following report was made, and afterwards presented ${ }^{\text {to }}$ the Council of Public Instruction:-

To The Honourable

ALFRED GILPIN JONES,<br>Lieutenant-Governor of Nova Scotia.

## May it Please Your Honour:

We, the undersigned members of the Commission appointed by your Honour "for "the purpose of investigating the best methods of teaching English in the scmak "situated in the French-speaking districts of the Province, and generally to ${ }_{\text {effect }}$ of "any suggestions to the Educational Department. which would have the effec "bringing about greater educational progress in such districts, under the provi "of Chap. 12, of the Revised Statutes of 1900," beg leave to report as follows:-

Your Commission have devoted twelve long sessions, extending over more $t^{\text {had }^{\text {an }}}$ week to enquiries concerning and the consideration of this highly important subl the They have had before them and carefully examined a number of witnesses fromision various parts of the Province coming directly within the scope of their Compilis bot They have summoned and heard the testimony of expert language-teachers, English and French. They have listened to and weighed the statements of teach the ment Inspectors having the supervision of French-speaking schools, and of turd in such schools. They have thoroughly discussed and most faithfully consider problem set before them in all its bearings.

Their investigations and deliberations have been marked throughout by the g est harmony and by the conspicuous absence of any mere sectional, partisan of subul spirit. They have been able to reach the conclusions which they are about to suf to your Honour not only unanimously but without friction or unpleasantness sort.

The first enquiries of your Commissioners were naturally directed towards dete to mining the relative standing of French and English-speaking schools, with a vie phat discovering whether the former are being or have been subjected to any consid All ${ }^{\text {th }}$ disadvantage under our educational system as compared with the latter. A. is ${ }^{\text {aO }}$ evidence before your Commissioners goes conclusively to show that, while there appreciable difference in intellectual capacity between French and Englishl-sperp pupils or between French and English-speaking districts, the average rate of prom of the former is considerably less than that of the latter. Weighty testim fortheoming to show that while this is the case, French-speaking pupils are genakive more regular school attendants and often more eager learners than English-Sp pupils in the same Inspectorial Districts.

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

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

Schools Your Commissioners find that the fundamental error in dealing with the French ascump, which must be held responsible for many of their short-comings, has been the
startlingion that they must be taught exclusively in English. They find that with
educatg uniformity and persistency attempts have been made and are being made to
playmates children from French-speaking homes and with none but French-speaking
ers whos by means of the English language alone, sometimes from the lips of teach-
that who can speak nothing but English. They find from the testimony of experts
leaching were such teachers masters of the most approved modern methods of
effurts a foreign language but neagre results could be anticipated from their best
and oftender such conditions. They find that with the inexperienced, ill-taught
often otherwise incompetent teachers ordinarily available for employment in such
are, as the efforts, however conscientious, made to teach the children to speak English
tempts might be anticipated, largely a failure. They find also that, while futile at-
Ppeaking to teach them English are thus being put forth, the general education of Frenching pupils is being more or less seriously or sometimes even totally neglected.
they With a view to remedying these defects and redressing serious grievances which than believe should be removed as speedily as possible, your Commissioners have in the hously reached the following conclusions which they submit to your Honour, Stuction hope that they may be approved by you and by your Council of Public Indirection, and that due effect may be given to them in the future regulations and Hoatims of the Educational Department of the province. Your Commissioners are sly of the opinion,
ithy First, "that English can be best and most effectively taught in the French-speak${ }^{4}$ anguage ${ }^{2}$-sections of Nova Scotia by the daily use in speaking and writing of that trance ' ${ }^{\text {quage, taught according to the most approved methods, from the pupils' first en- }}$ as they into school, to be followed by the use of the prescribed English readers as soon $y$ can be intelligently used by such pupils, not later than the Brd or 4th grades.
${ }^{0}$ Second, "that the general education of French-speaking pupils should be carried cessfully tecessary accomplished only by the use of their vernacular; that, therefore, as long as Curriculy they should, while learning English, be taught the other subjects of the ${ }^{0 p t i o n l u m ~ i n ~ F r e n c h, ~ p r o v i d e d ~ h o w e v e r, ~ t h a t ~ t h e ~ u s e ~ o r ~ s t u d y ~ o f ~ F r e n c h ~ s h a l l ~ b e ~}$ with every pupil.
$V_{i n}$ Third, "that, as far as practicable, in the French-speaking sehools of this Proonly bi-lingual teachers should be employed'.'
Vinced Your Commissioners have been forced to this last conclusion because they are conproperly that only French-speaking teachers are ordinarily competent to manage and
${ }^{3}$ theaking instruct French-speaking pupils from French-speaking homes in French-
they ${ }^{2}{ }^{2}$ communities during the earlier years of their school attendance or until
$\mathrm{P}_{\text {re }}$ difficultequired a working knowledge of the English language. They believe that
${ }^{\text {ren }}$ ach
possible peaking sections are so greatly increased that it would be not far from im-
${ }^{10}$ of of thr even the most expert of language teachers to carry on the primary educahe pupils by means of it alone.
mendour Commissioners have, further unanimously agreed upon the following recomCnclusions: which they make to your Honour as the logical outcome of their above four Fhirst, "that a special series of French reading-books suitable for grades one to be prescribed for use in French-speaking school sections.
Cusivelyy that inasmuch as the evidence given before your Commissioners shows conthatactory the majority of schools in French-speaking sections are not making ${ }^{\text {dit }}$ thary the Counciess, largely in consequence of faulty methods in teaching English, ation, duncing of Public Instruction should provide a short course, of some weeks , during the summer holidays in the Normal School, for the purpose of im-
parting to bi-lingual teachers the most approved methods of teaching English in such sections, and that teachers attending such course be treated in the matter of travelling expenses in the same manner as is now provided for those attending the regular sessions of the Normal School.

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

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

Your Honour's obedient servants.

Halifax, April 28th, 1902.

> W. E. Maclellan, ChairmarA. H. Comeau. A. G. Macronald, A. M.
> P. M. Dagnaud.
> W. M. Leblanc.
> M. J. Doucer.
> A. E. Mombourquette.
> A. McKay.

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

## MANUAL TRAINING, 1903.

Ordered, that under section 7r of Chapter 52, of the Revised Statutes of $1000{ }^{n 0}{ }^{n 0}$ public money shall be paid to school boards for the instruction of pupils in Man ${ }^{\text {nss }}$ Training Schools, who have not advanced as far as Grade VI. of the Public School Coursir except when specially authorized by the Education Department, for pupils over thants teen years of age; and that the grants on account of the Domestic Science departm ${ }^{2} \mathrm{FW}$ of such schools shall not exceed one-half of the maximum grant allowed under the of the school board of Manual Training in the Mechanic and Domestic Sciences.

## REGULATIONS FOR THE STRENGTHENING OF SCHOOL SECTIONS,

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

Reg. 10 (b) Two adjacent school sections which cannot afford to employ a fied teacher for the whole year, may, arrange with the Inspector of schools, to be ${ }^{28 s 8^{\circ}}$ ciated together as a "double-section," the teacher to be employed in the school hoube of one section for one half of the year, and in the other school house for the other balf the year.
 siderably beyond two miles from the school house, the Inspector may arrange with ${ }^{\text {an }}$ Trustees to recominend to the Council of Public Instruction the granting of a pot the of the Provincial Aid and Municipal Fund, which can be assumed to be saved by the enlargement of the section and the reduction of the number of schools, to subsidisce, in conveyance of pupils from such settlements to the school house, say for imstathout the morning, allowing them under ordinary conditions to return to their homes witho conveyance.

Reg. $r_{5}$ (e). It shall be the duty of each Inspector to classify the school sections the full regularion into first, second and third class sections, which in order to enjoy least the corresponding classes of license. "Such classification may be revised annually, of the rge being intimated to the secretary of the school board affected before the date teacher repular annual meeting of the section. Any section shall be free to employ a than its raigher class than its ranking, but not free to employ a teacher of lower class
reasons, ranking escept on the express authorization of the Inspector for sufficient
reasons, such as the lack of teachers of the class required.
${ }^{P} 0^{2}$ consolidated school sections which are bendficlaries under chatter 22 of the statutes of 1903.
Ordered:
Provincin That in the case of consolidated school sections which received the special 8hall be frant under Chapter 22 of the Statutes of 1903 , the conveyance of pupils ${ }^{4}$ point from points more than two and one-quarter miles from the school house, to
not more thich will afford such pupils the advantages as to distance enjoyed by those
(2) than two miles distant, and must be satisfactory to the Inspector of Schools.
furth (2) Under no circumstances shall it be deemed necessary to convey such pupils
distance than to and from a point within one and a half miles of the school, or the same
homace in towards the school in the morning, or the same distance towards the pupils'
(3) The evening, as can be most economically arranged.
regulations The Trustees of the Section will endeavor, as far as compatible with the arrangems of the C. P. I., to meet the reasonable desires of parents and pupils in the referred to then and equipment for the said conveyance, any point of difference to be (4) The Inspector for decision.
${ }^{4}$ ary precaue Trustees in making arrangements for conveyance, shall take the ordin-
rate of cautions to have as satisfactory service as possible, at the most conomical
bragt allost to the section. It is recommended when it may be found expedient, to Aeighblors' children, in which guardians for the conveyance of their children or their (5) ted to such persons by the 'Trustectional school tax or any portion of it may lor (5) Generally it nay be found moes, as a part of such allowance agreed upon.
ment ceyance along certain definite routes convenient for Trustees to call for tenders thent, under the oversight of responsible drive at definite times, with a definite equipWhen cost; but Trustees should thensible drivers or other persons, in order to ascertain ${ }^{8} u_{j}$ ject possible, with equally satisfactory conveying-all arrangements for which are 17 (6) the approval of the Inspector.
to be the That the power conferred upon Boards of School Commissioners by Sec. howe applied to distant and isolated to ordinary school sections, be recommended lisheder, being paid to the object for which Consolidated sections have bue regard, be (7) Only resident pupils of the school section from 7 to $1+$ years of age are to le conveyed free, but other pupils may be carried on the payment of a reasonable provisill not allow their conveyance to be at the cost of the school section, un(8) section. All previous regulations inconsistent with these are hereby repealed. Deifions on some Limititions of the Powers of School Tuutetees. l. School trustees have power to rent temporary school rooms when there is not Buhools, recommodation in the public school rooms; but they cannot use for public Which pes, so the which are not, for the time, completely under their control for school in ord School accordance with law.
order to hav trustees cannot vacate a public school room for any other room except me sufficient it repaired, providing it should be deemed capable of repair; or for aing, but reason affecting the school section as a whole, such as to secure better 3. ' Any not to suit the desires of individual parties or sects.
${ }^{v}$ in on by the arrangement of school rooms which may (1) prevent the exercise of superby the principal teacher of the school section; or (2) prevent the efficient grading
of the departments in charge of such teacher, is not compatible with the spirit of the school law. If either of these irregularities exist, and continue after notification by the Inspector. the schools cannot participate in the public grants.
4. It is legal for pupils in a section with only a few departments, which cannot have, therefore, more than one series of grades, to meet for devotional exercises il another room than the one in which they are registered for the work of the grade, the arrangements for exchange to be co-orclinated by the principal so that there may be no confusion or unnecessary loss of time. Separate devotional exercises may thest be held simultaneously to suit the desire of different pupils who during the rest the day will be in their regularly graded class-rooms.

## SCHOOL THROUGH SUMMER VACATION.

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

## UNIVERSITY GRADUATES.

Ordered that regulation 23 (b) be amended by the addition of the following sentence:
In an emergency and on the special recommendation of the Inspector, a Univerg Firet graduate in Arts or Science, who holds a teacher's license of a class lower than pot (class B) may be provisionally employed as a principal of any school for a period whith exceeding one year, after which he will cease to be eligible for any such position withou an advance in class of license, until he is regularly qualified.

## Notices of Engagements and Openings.

25. The Secretary of the school trustees shall notify Inspector in writing as soon as any teacher is engaged, stating name and class of license of the teacher, and the salary promised. If any such engagement is broken without mutual agreement, the Inspector as soon as informed thereof, shall report the teacher to the Council of Public Instruction as presumably liable to susperl sion of license.
26. Every teacher, assistant or substitute as soon as engaged to teach in any school, shall mail, or otherwise directly send ${ }^{a}$ written notice to the Inspector of the Division intimating the fach the class of license held, with its year and number, the period of engagement the address of the Secretary of School Trustees, and the name of the school section where last engaged. This shall be followed by a notice of the opening of school mailed not later that the day following.

This intimation shall be kept on file in the Inspector's officei and any delay on the part of the teacher in giving such notice shall rend date of proper notification.

A teacher intending to compete for (1) superior classification as a Class "A" teacher, or (2) classification as a Rural (Agricultural) Science teacher, or (3) a school library grant, or (4) an Inspector's Certificate for promotion, or (5) any other special consideration provided for in the school laws, shall give due informalion thereof to the Inspector in writing as early as possible, but not later than the last day of September.

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

## SEMI-ANNUAL ADVANCE OF CLASS OF LICENSE.

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

## RURAL SCIENCE SCHOOLS AND GARDENS.

$L_{\text {arw }}$ Regulation 36, pages 66 and 67 of the "Manual of School substituva Scotia, 1901," has been repealed and the following stituted in its stead:
36. Rural Science Schools and Gardens:-To qualify under of of 69 of Chapter 52 of the Revised Statutes of 1900, the teachofs a school must have an Agricultural or Rural Science diploma at the spified in the clauses following, and must notify the Inspector Compeopening of the school each year of the classification to be Which for-"superior," "good" or "fair" of the Statute, of Regule the equivalent respectively of "A1," "A2," and "A3" Regulation 34 preceding:

Teferred "The graduation diploma from the School of Agriculture ${ }^{190} 0_{0}$, under shall hereafter be known as the Rural Science diploma, $V_{\text {der }}$ which title it shall hereafter be awarded by the Rural Science Norman School at Truro, conducted under the auspices of the plete the and Agricultural Colleges. First Class teachers who comRural the course as prescribed from time to time, and obtain the "uperior," "Good", shall be qualified to draw the grants for course specified. But Second Class teachers who complete and receive the diploma may on the recommendation
of the Inspector draw one-half of the regular grants for the classifications "Fair" and "Good" respectively on the fulfilment of the regular conditions."
(2) Any such licensed teacher intending to compete for classification as "fair," " good," or "superior," under section ${ }^{69}$ of the Education Act, must give notice of this intention at the opert ing of the school to the Inspector, who has at the end of each hall year to rank the'school; and the lack of such notice shall be a dis ${ }^{5}$ qualification, even should all other conditions be complied with.
(3) For the lowest rank "fair" the school should have the equipment specified in Reg 51, a and b, must have a school garder of not less than one-cighth of an acre, one-third of which should be set off in beds $4 \times 10$ feet with walks 3 feet wide, the rest to be set out as an arboretum and shrubbery, part set out each year till all is planted; and a library of not less than 15 volumes in addition to the prescribed books of reference. The school must be in ${ }^{\text {al }}$ respects conducted as a first class school, with special excellence in Nature Study.
(4) For the rank "good" the school should, in addition have the equipment specified in Reg. $51, \mathrm{c}$ and d , with a library ${ }^{0}$ not less than 25 volumes, a well conducted school garden of $0^{n^{e}}$ fourth of an acre, one-third of which must be in beds as aboter the rest arboretum and shrubbery as above, and must be conducted in all respects as a first-class school with good demonstrations ${ }^{\text {in }}$ Nature Study by the individual pupils and the school generally
(5) For the rank "superior" the school should have, in addition to the requirements of the previous ranks, the equipment specified in Reg. 53, with a library of not less than forty volume a school garden containing three-eighths of an acre, one-third ${ }^{0}$. which should be set out in beds as above, the remainder as arbore tum and shrubbery as above, with a special class of pupils doing advanced work in Nature Study of such a character as to be clear ly advancing the industrial methods of the community in at least some departments of agriculture, horticulture, forestry, etc.
(6) The "small" standard school garden should not be than one-eighth of an acre ( 54445 square feet), one-half of which might be set out as an arboretum and shrubbery, the remaind being plowed each spring, then worked up by the pupils into of four feet by ten, separated by walks three feet broad. This arrangement would give one bed to each of thirty pupils. The younger pupils might be assigned in twos to each bed. grounds should be kept prettily fenced and kept in good order. even during holidays, when they should be visited by relays of

Pupils at least once a week. Such a school garden might be re${ }^{\text {Commmended }}$ by the Inspector for ten, fifteen, twenty or twentyGive dollars per annum from the municipal fund, according to the Excellence of the general condition of the school, provided the etc Board spend at least as much on the plowing, fertilizing, itc., forming the annual current expense of maintaining the school ${ }^{\text {ond }}$ order, in addition to the labor of the pupils and teacher.
(7) The " medium'' standard school garden should be about One-quarter of an acre on the average, one-half of which might be into fift as an arboretum and shrubbery, and the remainder divided "alks, fo or sixty, four by ten feet beds, separated by three feet "Small", to be conditioned on the same general principles as the Tor the standard. This would be the size of the garden desired
accord rank "good" where possible, drawing $\$ 15, \$ 20$, or $\$ 25$, g to excellence, from the municipal fund.
(8) The "large", standard school garden should be over a of an acre, with at least three times the number of "four Toten feet" plots recommended for the "small" standard, say
dessired to 100 individual beds. This would be the size of garden Principl for the rank "superior;' drawing under the same general $\$ 20$ to $\$ 25$ from the municipal fund. ${ }^{8 l}{ }^{(9)}$ A small shed for the garden tools, with a projection, Orcipg plant, facing the sun, to serve as a miniature hot-house for
very Thery cheants in spring, is a necessary part of any standard garden, therely, number and management of plots specified above are given as general directions when teachers or school boards ara ${ }^{0} 0$ other scheme which they deem superior. Any other avel or gents approximating these conditions, but demonstrating but special advantages, or improvements, are not only allowwill be specially commended after a successful test.
${ }^{r}{ }^{0} \mathrm{ocord}^{(10)}$ If the teacher or the secretary of the school board Wreeding ander oath the attendance of pupils during the holidays areem the Inspector to be substituted equitably, according to stormt, for an equivalent number of holidays during the winter added Peryap (11) Inspectors may have to consult with each other, and xchange visits to the schools of each inspectorate, in tier to be surge visits to the schools of each inspectorate, in
With in same standards of classification are main-
respect inspectorial division. The same conditions hold
espect to the inspection of Manual Training and Superior

Schools generally. Notice of competition for school garden grant must be given to the Inspector at the opening of the school each year, and should be signed by the Secretary as well as the teacher.
(12) The course of study for the Rural Science diploma $s^{\text {hal }}$ be as defined from year to year in the Rural Science School Courst of Study.

## PROVINCIAL EXAMINATION OF HIGH SCHOOL STUDEN ${ }^{\text {ST }}$

82. "High School Students" shall be held to mean all who have passed the County Academy Entrance Examination and ${ }^{\text {art }}$ studying the subjects of any high school grade, or who are cert fied by a licensed teacher as having fully completed the Cotitill School course of study, and are engaged in the study of subject beyond Grade VIII.
83. A terminal examination by the Provincial Board of $E$ aminers shall be held at the end of each school year on subjects of the first, second, third and fourth years of the High Sch ${ }^{0}$ Program, to be known also as Grades IX, X, XI and XII respec tively of the Public Schools.
84. The examinations shall be held during the first we de of July, according to the time tables given in 98, for Grades XI, X and IX, and the "Minimum Professional Qualificatio" of public school teachers, at each of the following stations with 1, Advocate; 2, Amherst; 3, Annapolis; 4, Antigonish; 5 , Aric 6, Baddeck; 7, Barrington; 8, Bear River; 9, Berwick; 10, Bridet town; 11, Bridgewater; 12, Canso; 13, Chester; 14, Church poir 15, Digby; 16, East River, St. Marys; 17 Glace Bay; 18, Gre Village; 19, Guysboro; 20, Halifax; 21, Inverness; 22, Kentuil 23, Liverpool; 24, Lockeport; 25, Lunenburg; 26, Maitlath; 27, Margaree Harbor; 28, Middle Musquodoboit; 29, Middletor 30, New Glasgow; 31, North Sydney; 32, Oxford; 33, Parts Por ${ }^{\text {t }}$ 34, Pictou; 35, Port Greville; 36, Port Hawkesbury; 37, 4 , Hood; 38, River John; 39, Sheet Harbor, 40, Shelburne; Sherbrooke; 42, Springhill; 43, Stellarton; 44, St. Peter's; 45, ${ }^{5} 49$ ney; 46, Tatamagouche; 47, Truro; 48, Upper Stewiacke , yaf Westport; 50, Westville; 51, Windsor; 52, Wolfville; 53, mouth.
85. (a) Application for admission to the Provincial School examination must be made on the prescribed to the Inspector within whose division the examina $a^{4010}$ station to be attended is situated, not later than the day of May. Examination a fee of two dollars is required; but it should not be forwarded with the application, for it has been found more convenient to have it paid to the Deputy-Fxaminer on the Saturday when the candidate presents himself for examination. The Deputy-Examiner shall transmit the Same to the Superintendent with his report.
(d)

The prescribed form of application, which can be obtained free from the Education Department through the Inspectors, shall contain a certificate which must be signed by a licensed teacher having at least the grade of scholarShip applied for by the candidate whose legal name must be fully and plainly written out on the application form.
Wis When a candidate presents himself for examination, and his name is not found on the official list as having made regular application in due time, the Deputy-Examiner may admit him to the examination provisionally on his written statement that application was regularly made in due time, Which with a fee of one dollar, is to be transmitted with the Deputy's report to the Superintendent. If such candiPate's statement is verified the dollar shall be returned. ${ }^{\text {Providing }}$ there is sufficient accommodation, the DeputyExaminer may admit any candidate on the payment of one dollar for any Grade in addition to the regular fees required Under Reg. 85 (b).
(j)

The prescribed form of application is given in schedule B.
Each Inspector shall forward, to the Superintendent of n, not later than June 1st, a list of the applications received grade of examination at each station within his division, forms pribed form supplied from the Education Office. The proproperly filled in, together with all fees duly credited promptly forwarded to the Education Office.
87. The Deputy-Examiner, when authorized by the Superib tendent of Education, shall have power to employ an assistant assistants, who shall each receive two dollars per day for the tive so employed.
88. The Superintendent of Education shall cause to be prt pared and printed suitable examination questions for each exaruill ation in accordance with the regulations of the Council, and sant forward to each Deputy-Examiner a sufficient supply of the together with copies of such rules and instructions as may be net sary for the due conduct of the examination.
89. The maximum value of each paper shall be 100 ; the questions being made as nearly as possible equal in value. the values of questions be unequal, they shall be stated near the margin of each question.
90. Each examiner shall mark distinctly by coloured pend dild or ink at the left hand margin of each question on the candiat the paper its value, placing the sum of the marks on the back of folded sheet. From this sum the number of misspelled or alut scurely written words is to be deducted to show the net be of the paper; provided, however, that from one to three $\boldsymbol{m}^{\text {ay }}$ added by the Examiner for specially good writing.
91. The "High School Pass" on all grades shall be as define "High School Program"-from year year.
92. The "Teachers' Pass" shall be as defined under Rel 154-the "High School Program"-from year to year.
93. (a) Candidates failing to make a High school pass in the grade applied for shall be ranked as making a High School pass in next grade below, provided an average of 40 per cent with no below 25 be made; and as making a pass on the grade second bow 20 provided an average of 30 per cent. be made with no mark below
(b) Candidates failing to make a Teachers' Pass in the applied for shall be ranked as making a Teachers' in the next grade below, provided an average of 50 per be made with no mark below 30; and as making a Teach 40 Pass on the grade second below, provided an average of per cent be made with no mark below 25.
 paper at the Provincial High School examination shall bed entertained by the superintendent unless it is accomph im by a fee of fifty cents for each paper to cover the minim

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

94. Each candidate, provided no irregularity has been reportshall receive from the Superintendent of Education a certificate raining the examination record in each subject. If the candibite has made a "High School Pass," the certificate will bear the under High School, Certificate," and show the grade obtained in to the arms of the Education Department; but candidates failto pass shall receive an equally detanled statement of their ination record on the various subjects.
95. Candidates passing the various grades in consecutive Shall be admitted free to the regular Provincial High School tomilnations, provided their application and procedure have been has bee In all other cases a scale of fees as given in 85 (b) and (e) kelly fixed to cover the cost of examination and extra labor to be incurred.
${ }^{\text {fifforent }} 96$. The subjects, number and values of the papers for the examinations, and the general scope of examination quesfigh, are indicated generally by the texts named in the prescribed draming School Program. Examination may demand description by tg as well as by writing in all grades of High School and M.P.Q.

## Provincial Examination Rules.

48 97. No envelopes shall be used to enclose papers. Two hours
P P e allowed for writing each paper, except in the case of the examinations, where the time allowed for each paper shall The following rules must be exactly observed:(l) Candidates shall present themselves at the examination ctually half an hour before the time set for the first paper grade for which they are to write, at which time the deputy shall give each candidate a seat. The candidate's name be represented by a number, and must be therefore neither nor changed. Candidates who present themselves shall absered from 1 onwards in consecutive order (without hiatus applicants, who cannot be admitted after the numbering), With grade XII, then coming to XI, X and IX in order. dates for "Supplementary" examinations need not present
 papers they have sent in their applications and the titles papers on which they intend to write.
1tathination is faxed to begin. No candidate late by the fraction of
a minute has a right to claim admission to the examination roor and any candidate leaving the room during the progress of any amination must first hand in his or her paper to the deputy ${ }^{\text {e }}$ aminer, and not return until the beginning of the next paper.
(3) Candidates shall provide themselves with pens, mathematical instruments, rulers, ink, blotting paper, supply of good, heavy foolscap paper of the size thirteen inches bf eight.
(4) Candidates may write upon both sides of their papet When more sheets than one are used they must be fastened toge In Each sheet should bear the Candidate's grade and number. order to secure high values from examiners neat writing and concise answers are much more important than extent of spac covered or the number of words used.
(5) Each such paper must be exactly folded. First, by doubl ${ }^{\text {bl }}$ ing, bottom to top of page, pressing the fold (paper now 6 , inches); next, by doubling again in the same direction, pres. the fold flat so as to give the size of $3 \frac{1}{4}$ by 8 inches.
(6) Finally the paper must be exactly indorsed as follows A neat line should be drawn across the end of the folded paper by half an inch from its upper margin. Within this space, $3 \frac{1}{2}$ inclio $\frac{1}{2}$ inch, there must be written in very distinct characters, $\frac{15 t^{5}}{}{ }^{3}{ }^{3}$ letter indicating the grade; 2nd, the candidate's number, and ${ }^{0} \mathbf{u l}^{\text {th }}$ vacant parenthesis of at least one inch, within which the dep the examiner shall afterwards place the private symbol indicating station. Immediately underneath this space and close to it $\mathrm{sb}^{\mathrm{h} 0}$ be neatly written the title or subject of the paper.

For example, candidate No. 18 writing for Grade XI on Alge ${ }^{\text {nel }}$ should endorse his paper as shown below:-

(7) The subject, title, grade and candidate's number may be mitten within over the commencement of the paper also; but ay sign or writing meant to indicate the candidate's name, station even porsonality may cause the rejection of the paper before it is sent to the examiners.
it be (8) Any attempt to give or receive information, even should - cand unsuccessful, the presence of books or notes on the person of a violatite, or within his reach during examination, will constitute examiation of the examination rules, and will justify the deputy tominer in rejecting the candidate's papers, and dismissing him
prowither attendance. No dishonest person is entitled to a pro further attendance. No dishonest person is entitled to a
at incial certificate or teacher's license. And where dishonesty at examinal certificate or teacher's license. And where dishonesty
and licenation is proven, provincial certificates already obtained and licenses based on them will be cancelled.
(9) It is not necessary for candidates to copy papers on acCount of is not necessary for candidates to copy papers on ac-
Or estimatelling of errors will allow a paper to stand as high in the it mation of the examiner as if half the time were lost in copying Answers or results without the written work necessary to find hgly. will be assumed to be only guesses, and will be valued accord-
(10) Candidates are forbidden to ask questions of the deputy Saminhiner with respect to typographical or other errors which may Paper mes occur in examination questions. The examiner of the by his tone will be the judge of the candidate's ability as indicated ${ }^{\text {lot }}$ his treatment of the error. No candidate will suffer for a blunder own.
Win (11) Candidates desiring to speak with the deputy examiner "ramold up the hand. Communication between candidates at is a hation even to the extent of passing a ruler or making signs, beldation of the rules. Any such necessary communication can through the deputy examiner only.
(12) Candidates should remember that the deputy examiner mithout overlook a suspected violation of the rules of examination hendshiplation of his oath of office. No consideration of personal Negligent. or pity can therefore be expected to shield the guilty or

Made at Candidates intending to apply for license upon a record
Such at this examination. should fill in a form of application for
lapl forms as is expected. The deputy examiner is provided with should for those who do not already have them. The applihould have his certificate of age and character correctiy made
out and signed, and should fill in the number, station and year of any previous examination he has taken, whether he has been successful in obtaining a certificate thereon or not. He should alst fill in his number, station, etc., and grade of certificate or rank of M. P. Q. expected. This latter should be placed in brackets, which will be understood to mean that it is not yet obtained but is expected to be obtained.
(14) All candidates will be required to fill in and sign the following certificate at the conclusion of the examination, to be sent in with the last paper:-

## Certificate.

Examination Station. . . . . . . . . Date . . . . . . . . . . . July, 191..

> Candidate's No. ( )

I truly and solemnly affirm that in the present examination I have not used or had in the Examination Room, any book, printed paper, portfolio, manuscript, or notes of any kind, bearing on ${ }^{\text {aby }}$ subject of examination; that I have neither given aid to, $\mathfrak{n} 0$ sought nor received aid from, any fellow-candidate; that I have not wilfully violated any of the rules, but have performed my worl honestly and in good faith.

Name in full)

(Without any contraction in any of its parts).
P. O. to which memo. or certificate is to be sent.

98 (a). Time table.
Regular Provincial High School Examination, July, 1910 .

| $\begin{gathered} \text { Day } \\ \text { of } \end{gathered}$ Week | Grade. | $\left\{\begin{array}{c} \text { Examinations } \\ \text { a a. m., to II a. m. } . \end{array}\right.$ | $\begin{aligned} & \text { Examinations } \\ & \text { II a. m., to I p. m. } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: |
| 骂 | XII. XI. X IX. | ( German $\begin{gathered}\text { German } \\ \text { German }\end{gathered}$ | Greek (a) | Chemist |


 98 (b). TIME TABLE.

M. P. Q. Examination, July, 1908.

99.

Optional Examination in Music, Etc.
(a)

At the County Academy Entrance Examination and the Teacher's Minimum Professional Qualification Examınation, Candidates who have taken London Tonic Sol-Fa certificates ${ }^{c}{ }^{\text {wh }}$ for the question in music substitute their certificates for Which values will be given as follows:-For "Junior" certificate, 10; for "Elementary" certificate, 15; and for "In$\underset{5}{\text { termediate" certificate, } 20-\text { the last two for M' P. Q only. }}$
(b) The candidate will enter in a parenthesis as an answrer to the No. of the question on music in his examination paper the words, "Junior Certificate," or "Elementary Certifical thal or "Intermediate Certificate," as a reference to the examinime such a certificate has been handed to the deputy examination bearing on its back the name, and address, and exared upor number and station of the candidate plainly endors.

## it.

(c) The certificate will be received by the deputy examinin compared with his list to verify the correctness of envelof dorsation by the candidates, then enclosed in Entrance, to then addressed, in the case of the Academy the superift to Principal, and in the case of the M. P. Q. to the rum them ent of Education, who, after perusal, shall retur the respective candidates.
(d) The Principal or the Superintendent, as the case may shall then endorse 10, 15, or 20 points (according below the examiner's report on the candidate's paper general valuation number and add the two togethet total value of the paper.
(e) To prevent the possibility of two values substituted for the question, shall mark the gaper and 0 of the paper with an asterisk, both on the pap report.
(f) No certificate from any local examiner of the Tonic Sol-Fa College shall be accepted, unless has previously given a satisfactory proof to the appoin or Superintendent that he or she has been dula question as local examiner for the grade of certificate $i d$ the authorities of the said College.
(g) At the County Academy Entrance Examination ficate of Attendance for a year at a Mechanic sor the ay iol or a Domestic Science school, can be accepted the "f ind to a question on the subject in like mannet 20, Tonic Sol-Fa certificate value from 0 to the character of the candidate's worth.

## Licensing of Teachers.

100. No person can be a teacher in a public schnol to draw public money without a License from the didate must Instruction.

## PHENOLOGICAL OBSERVATIONS -(Continued).

 June

Aug

[Day of year corresponding to the last day of each month ] Jan. 31. April 120. July 212. Oct. 304. Feb. 59. May 151. Aug. 243. Nov. 334. March 90. June 181. Sept. 273. Dec. 365.
[For Leap years increase each mumber except that for January by 1.)
28. Pigeon Berry (Cornus Candensis), fruit ripe
29. Star Flower ('Trientalis Americana), flowering
30. Clintonia (Clintonia borealis), flowering
81. Marsh Calla (Calla palustris), flowering
32. Lady's Slipper (Cypripedium acaule), flowering
33. Blue-eyed Grass (Sisyrinchium ang.), flowering
34. Twintlower (Limma borealis),
35. Pale Laurel (Kilmia glauca), flowering
36. Lambkill (Kalmia augustifolia),
$\qquad$
37. English Hawthorn (Crategus oxyacantha), flowering
38. Scarlet fruited Thorn (Oramagus coccinea),
39. Blue Flag (Iris versicolor), flowering
40. Ox-eye Daisy (Chrysanthemum Leacanthemum), flowering
41. Yellow P'ond Lily (Nuphar advena), flowering.
42. Raspberry (Rubus strigosus), flowering.
43. " " " fruit ripe
44. Yellow Rattle (Rhimathus Crista-galli), flowering.
45. High Blarkberry (Rubus villosus), flowering
46. " " fruit ripe
47. Pitcher Plant (Sarracenia purpurea), flowering
48. Heal-All (Brueella vulgaris),
49. Common Wild Rose (Rusa lucida),
50. Fall Dandelion (Leuntorlon antamnale),
51. Butter-and-Kggs (Linaria vulgaris),
52. Kxpanding lenves in spring made trees appear green- (a) first tree, (b) leafing trees generally.

> (Commivated Phants, etc.)
53. Red Currant (Ribes rubrum), flowering
64. " " fruit ripe
55. Black Currant (Ribes nigrum), flowering
$56 . \quad$ " " fruit ripe
57. Cherry (Prunus (Yerasus), flowering.

59. Plum (Prunus domestica) flowering

B0. Apple (Pyrus Malus), flowering
61. Lilac (Syringa vulgaris), flowering

62 White Clover (Trifolium repens), flowering
63. Red Clover (Trifolium pratense),
64. Timothy (Phleum pratense),
65. Potato (Solanum tuberosum),
(Farming Operatilens, hto.)
66. Plowing begun
87. Sowing

6x. Planting of Potatnes begun

## PHENOLOGICAL OBSERVATIONS, CANADA

(1909 SCLEDULE.)

ore made length and breadth of the locality within which the following ohservaRstim .........miles. 1 Fstimated distance from the sea coast.
ond altitude above the sea level........ . feet.
oneral exposure of the region.
character of the soil and surface
ref forest and its character
egion include lowlands or intervales?. and if so name the main river
4ryan. . . . . . . . . . . . . . . . . . . Or in it all substantially highlands?
peculiarity tending to affect vegetation?



(1o be handed promptly on its rectipt by the Secretary of every Nchool Rorrd to each Trach" employed within the School Nection.)

## LOCAL "NATURE" OBSERVATIONS.

## (To be sent in to the Inspector with the Returns in February

This sheet is provided for the purpose of aiding teachers to interest their $P_{\text {apist }}^{\text {pil }}$ observing the times of the regular procession of matural phenomena each season. of surdy may help the teacher in doing some of the "Nature" lesson work of the Conso prove Tw secondly, it may aid in procuring valuable information for the locality and prons, onc ${ }^{0}{ }^{\text {b }}$ copies are provided tor each teacher who wishes to conduct such observations to be preserved as the property of the section for reference from year to year; the othen for extro in with the Return to the Inspector, who will transmit it to the Superintenden ination and compilation

What is desired is to have recorded in these forms, the dates of the firx leafing fowind ing and fruting of plants and trees; the first appearance in the locality of birds mif ${ }^{\text {to }}$ to north in spring or south in autum, ete. While the objects specified here are givel is is veff enable cornparison to be made between the different sections of the Province ios it the desirable that other local phenomena of a simila kind be recorded. Every lownon theot a fora, fanua, climate, ete, more or less distinctly its own ; and the more connm yifw hrubs, plants, crops, etc., are those which will be most valuable from a local poin in comparing the characters of a series of seasons.

Teachers will find it one of the most convenient means for the stimulation of puppis in is observing all matural phenomem when going to and from the school, and some curdid radiate as far as two miles from the school roon. The "nature study" under there ${ }^{\text {ing }}$ on tions would thus be mainly undertaken at the most convenient time withont encrow in are school time; while on the other hand it will tend to break up the monotony of serns of $\mathrm{e}^{\mathrm{d}^{\mathrm{ct}}}$ fill an idle and wearisome hour with interest, and be one of the most valuable form section will tional discipline. The eyes of a whole school daily passing over a whole achool ser reurribl let very little escape notice, especially if the first observer of each annuall, will be phenomenon receives credit as the first observer of it for the year. The observations and the accurate, as the facts must he demonstrated by the most undoubted evidence, sat bringing, of the specimens to the school when possible or necessary.

To all observers the following most important, most essential principles of rece. Spor be emphasized: Better no dute, no record, than a wrong one or a doubrtul should pol fien out of season due to very local conditions not common to at least a small field, son onplaydirecorded except parenthetically. The date to be recorded for the purposes on ing firn iny with those of other localities should be the first of the many of its kind ollow ing drand ately after, it. For instance, a butterfly emerging from its chrysalis in a slimate, on " by a southern window in. Janaary would not be an indication of the general a fower ford the peculiarly heated nook in which the chrysalis was sholtered; nor woul of season ocmo semi-artificial, warm sleelter, give the date required. When these sports ont or an some they might also be recorded, but within a parenthesis to indicate the peculiarity the conditions affecting their early appearance.

These schedules should be sent in to the Inspector with the school return in juy and February, containing the observations made during the Spring (January to Jupe) ${ }^{\text {a }}$ the Fall (June to December respectively.

The new register has a page for a duplicate of such records.
head ofember to fill in carefulty and distinctly the date, locality, and other binks al the head of the schedule on the next page; for if either the date or the locality or the the responsible compiler should be omitted lie whole paper is worthless and can $^{\text {not }}$ bound up for preservation in the volume of The Phenological Observations.

By the aid of the table given at the top of pages 3 and 4, the date, such as "he $24^{24^{4}} 4^{4} 4^{\text {d }}$ y and accurately pages 3 and 4, the amunal date, "the doy day of the year," by adding the day of the month given to the unrual date of the last be of the preceding month (April in this case), thus. given to the annual $24+120=144$. The annual date caped for briefly recorded, and it is the unly kind of dating which can be conveniently averag heop phenological studies. When the sompiler is quite certain that he or she can make the version without ecror, the day of the year instead of the day of the month will be prol in recording the dates.
first, a certificate of the prescribed Grade of Schoralship; second,
the prescribed certificate of professional RaNk as a teacher, either Tom the Provincial M. P. Q. Examination (which must be supplemented for all classes higher than third class, by the prescribed Certificate of ability to give effective physical training to pupils), or the Provincial Normal College; third, the prescribed certifiCate of age and character from a minister of religion or two Jusphys of the Peace; and fourth, A certificate of health from a regular Physician proving freedom from active tuberculosis of lungs, of ensively smelling catarrh, or other disqualifications. The value of a license is distinguished by the term Class; of scholarship by the term Grade; of professional skill by the term Rank. Full tiformation as to of professional licensing will be found in Regulations 101 mill 14 inclusive, but the following collocation of the terms used help to explain their significance and relation:-

Generally,
(1)
(2)
(3)
"Teacher's Pass Scholarship,"
Normal Diploma. Age \& Character.

teachers:-
${ }^{10}$ 101. No diploma of the Provincial Normal College shall be any candidate who is found defective (below 40\%) in the on in the of any of the subjects of the Provincial Program takTreditahe corresponding grade, until the Faculty is satisfied that editable corresponding grade, until the Faculty is
${ }^{8 r}{ }^{\text {lod }} 02$. When a candidate obtains a teacher's license without Ontion from the Provincial Normal College, it can be only of a one degree lower than the "teachers' pass" grade of scholarship.
 de Graduation from the Provincial Normal College will qualifense higher than third class shall be awarded without qualification after 1908.
Tlualification certificate, combination of certificates, nor any other No certificate, combination of certificates, nor any other person authority to teach under the law in a public school. gulations governing the issuance of licenses are as follows;-
105. The permanent Licenses of Public School teachers shall be under the Seal of the Council of Public Instruction signed by the Secretary of the Council, shall be valid for the whole province during the good behaviour of the holder, and shall be granted on the fulfilment of the three conditions more fully specified in the succeeding regulations, namely: the presentation of the prescribed proof of ( 1 ) age and character, (2) scholarship, and (3) professional skill.
106. There shall be five classes of such licenses, which may be designated as follows:-

Academic Class-Academic Headmaster.
Class A-High School Master.
Class B--First Class.
Class C--Second Class.
Class D-Third Class.
107. The certificate of professional qualification of skill shall be (a) the academic, first, second or third Rank classification by the Normal College, or (b) the minimum (which shall rank one degre lower than the normal), and shall be the academic, first, second or third rank pass on the following papers written on the Saturday ${ }^{\circ}$ Provincial Examination week.

## MINIMUM PROFESSIONAL QUALIFICATION EXAMIN TION.

The questions set for the minimum professional qualification examinations shall be on the following svllabus and may require free hand drawing in any question when desirable:-

## 1. School Law and Forms.

(a) The acts of the Legislature and Regulations of the Coun cil of Public Instruction bearing on public education, wis their latest amendments, and a knowledge of the way which the law is to be admınistered.
(b) The proper keeping of the School Register, the making out of neat and accurate school Returns, and a knowledge of all the ordinary forms required by school boards in ${ }^{\text {d }}$ minstering the affairs of the section.

## 2. Theory and Practice of Teaching.

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

## 3. Hygiene and Temperance.

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

## 4. School Management.

As in Lectures on Teaching, by Sir Joshua Fitch.
5. History of Education,

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

As in Bagley's The Educative Process.
For Third Rank M. P. Q.-An aggregate of 150 on 1, 2 and 3, no subject below 30 per cent.

For Second Rank M. P. Q.-An aggregate of 250 on 1, 2, 3, 4, certif. with no subject below 40 per cent, and with the prescribed ficate of physical training.
5, For First Rank M. P. Q.-An aggregate of 300, on 1, 2, 3, 4, and of phe nubject below 50 per cent, with the prescribed certificate physical training.
4, 5 For Academic Rank M. P. Q.-An aggregate of 360 on 1, 2, 3, , 5 , and 6 , with no subject below 50 per cent, with the prescribed Certificate of physical training.
the 108. The Provincial Normal College at Truro is recognized as lor appropriate source of certificates of professional qualification teacublic school teachers; but the certificates of other Normal or shochers' training schools whose curricula may be satisfactorily Provi to the Council to be at least the equivalent of those of the additincial Normal College, may be accepted when qualified by the $\mathrm{P}_{\mathrm{f}}$ avin of the three following conditions: (a) a pass certificate of the the coincial "minimum" professonal qualficaton examination of tor, corresponding rank, (b) a certificate of a Public School Inspectdem before whom or under whose supervision the candidate has bis or orstrated by the test of actual teaching for a sufficient period the or her qualifications for the class of license sought, (c) and prescribed certificate for Physical Training.
In the case of candidates whose course of professional training
bad $_{\text {been }}$ bempleted before the grade of scholarship necessary for the
class of license afterwards applied for was obtained, no license shall be issued until after the lapse of a year from the date of the certifcate of high school grade required for the said license.
109. The prescribed certificate of age and character is given in the following blank form of application for license, which will be supplied to candidates by the Education Department, through the Inspectors or the Principal of the Normal College:-

## Form of Application For a Teacher's License.

To
Inspector of Schools, Division No.........Nova Scotia-
I hereby beg leave through you to make application to the Council of Public Instruction for a Teacher's License of Class.... the ......and herewith I present evidence of compliance with the conditions prescribed, namely:-
I. The prescribed certificate of age and character hereto attached, which I affirm to be true.
II. My certificate of Scholarship................. obtained in the at...............Examination Station as No year 191.. (Further information below.)
III. My certificate of professional qualification of........ of Rank No........ obtained at.............. . 191.... in the month ${ }^{0}$
IV. The prescribed certificate for Physical Training, tained at. . . . . . . . . . from.................. . . dated
V. The prescribed certificate of Health.
(Name in full)
(Post Office address)
Date

## Certificate of Age and Character.

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

## That I believe the said candidate (name <br> in full), was born on the in the health year and physically fitted for effective teaching; and

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

$$
\begin{aligned}
& \text { (Name and title.) } \\
& \text { (Church or Parish). } \\
& \text { (P. O. Address.) } \\
& \text { Date }
\end{aligned}
$$ (When the certificate given above is signed by "two Justices of

the Peace " instead of a "Minister of Religion," the word "I"
should on the be changed by the pen into "we", and after the signature cellede second line the words "Church or Pansh" should be canby a stroke of the pen.)
The correct quotation of the High School certificates in II, above candid be considered as equivalent to its presentation. When the tion ata makes application at the High School Examination Stabe ent the grade or rank of certificate written for and expected may underered, but shall be enclosed in a parenthesis, which will be uderstood to indicate the expected result of the Examination.

The correct quotation of the Provincial M. P. Q. Certificate or Te Provincial Normal College Diploma in III and the Physical to its ping Certificate in IV above, will be considered as equivalent presentation.
${ }^{\text {Sularly }}$ An certificate from Normal Schools, etc., which are not replicarly recorded in the Education office, must accompany this apation as evidence of the correctness of the statement.

## Further Information from Applicant.

1. Class of license already held.........No......... Year....
experience, University Degrees, Scholarship, Professional Training, ience, or any other information candidate may wish to state.
2. Provincial High School Examinations taken in addition to that specified in II above, whether a "High School Pass" certificate was obtained or not (necessary to prove that the candidate made ${ }^{2}$ "Teachers' Pass" in the lower grades.)


General or Special Indorsation or Remarks by Inspector (or Principal of Normal Cotitege.)

Place and Date

## ACADEMIC HEADMASTER'S LICENSE.

[Regulations ino (a), (b) and (c), as published on page ${ }^{137}$ of the Journal of Education, April, igo8, are repealed and the following substituted.
110. (a). For an Academic Headmaster's License, following are the requirements:-
I. A certificate of moral character signed by a Minister of Religion or two Justices of the Peace, as in the pre scribed form, to the effect that the candidate is of the full age of twenty-two years, and presumably likely to perform the duties required by law.
2. A recognized degree from a recognized University ${ }^{\left(n^{0}\right)}$ degree or University shall be recognized unless the cours ${ }^{\text {e }}$ is proven to be one of at least four years following a ${ }^{4} 0^{\circ}$ vincial High School Pass of Grade XI., or a matriculatio standard shown to be its virtual equivalent); and a pass* on a testing post-graduate examination of University grade.
3. A certificate of Academic rank from the Provincial Nor ${ }^{\text {r }}$ mal College. (In the awarding of this certificate, at Faculty of the Provincial Normal College may accept their true value the certificates of the Normal training schools,

[^2]of the Education Faculties of Universities, and of Inspectors, in lieu of a portion of the minimum attendance prescribed by the Council, provided (i) the candidate has made an Academic pass on the M. P. Q. syllabus, (ii) has obtained the prescribed Physical Training Certificate, (iii) has taught successfully for at least two years, one of which must be as a full teacher in a department of high school grade, and (iv) has demonstrated satisfactory professional proficiency in the art of teaching before the Normal College Faculty by whom the candidate shall also be examinted viva voce.)
${ }^{\text {I Io }}$ (c). For a Class A. or High School Master's License Council in the equivalent of Class $A_{3}$ of the regulations of the iertificate 1908) the following are the requirements: (I) A as in the of the full age of twenty years, and moral character XII the foregoing regulation. (2) A pass certificate of Grade tion (3) A certificate of Academic rank professional qualificafrom the Provincial Normal College.
${ }^{\text {ditions }}{ }^{\mathrm{I}_{1}}$. For a Class B or First Class License the following conyears, ${ }^{\text {n }}$ are necessary: (I) A certificate of the iull age of nineteen A tears, and moral character as in the foregoing regulation. (2) tificacher's pass certificate of Grade XI. (3) A teacher's cer$N_{0}$ cate of first rank professional qualification from the Provincial with College; or a Teachers' Pass certificate of Crade XII, ing a first rank M. P. Q., including the prescribed Plysical TrainCertificate.
${ }^{\mathrm{I}_{1}}$. For a Class C or Second Class License the following condi-
tio $_{\text {pars }}$ are necessary:--(I) A certificate of the full age of eighteen Pars and moral character as in the foregoing regulation. (2) A rank ers' Pass certificate of Grade X. (3) A certificate of second $p_{\text {ass }}$ professional qualification from a Normal College; or a Teachers Press certificate of Grade XI, with second rank M. P. Q., and the cribed Physical Training.
${ }^{2}{ }^{\mathrm{I}_{\mathrm{I}}}$ 3. For a Third Class or D License the following conditions and necessary:-(I) A certificate of the full age of seventeen years $P_{\text {ass }}$ Toral character as in the foregoing regulation. (2) A Teachers' fess certificate of Grade IX. (3) A certificate of third rank pro$P_{\text {ass }}$ " certinalification from a Normal College; or a "Teachers" certificate of Grade X with third rank M. P. Q.

## Temporary License.

${ }^{0}{ }^{\mathrm{I} l} \mathrm{I}_{14}$. (a) A Third Class (Temp.) or D (Temp.) License, valid of Septene year, may be granted (but not previous to the 15 th day folleptember in any school year) on regular application when the
age of sixteen years and moral character as in the foregoing Regulation. (2) A pass certificate of at least Grade IX as in the foregoing Regulation. (3) The Third rank minimum professional qualifica. tion. (4) A recommendation of the candidate as a temporary teacher for a specified school by the Inspector who must previously be assured by the trustees of the said school that, although reason able effort was made to employ a regular teacher of permanent class, one could not be obtained, and that the candidate would be acceptable to the school section as a teacher for the year. $\mathrm{Suc}^{\mathrm{h}}$ License can be re-issued for another year when the candidate has demonstrated an advance of grade or rank in his qualification ${ }^{\text {s }}$ at a subsequent Provincial Examination.
(b) On the recommendation of the Normal College at Trufo the Council of Public Instruction may award Kindergarten Dip lomas of First and Second Ranks toapproved candidates who hare respectvely the scholarship qualifications of First and $S^{2} c^{n}$ Class 'eachers, andwho have successfully taken a full years' cour in the Truro Kindergarten affiliated with the Provincial Nor $r^{2 a}$ College; and that such Diplomas shall be taken by the Super ${ }^{i d}$ tendent of Education as the equivalents respectively of First and Second Class Licenses in the distribution of the Provincial $\mathrm{Aid}^{\text {to }}$ the teachers holding them.
(c) On the recommendation of the Superintendent of $E \mathrm{Ad}^{\text {d }}$ cation and the Principal of the Provincial Normal College, Norm trained teachers from any part of the British Empire may be awar ded a provisional license for one year, of a class as high as the scholarship and professional training of the candidate may ${ }^{2 r}$ rant. On the advance of the candidate's qualifications according to the Nova Scotia regulations, and the inspector's recomn ${ }^{\text {a }}$ dation, the license may be continued for a subsequent year.
(d) Should arrangements be made for the exchange of teach ers for one year from any portion of the Empire or from France of Germany, the council may on the recommendation of the superid tendent and principal of the Normal College, award a provisio $0^{n^{2}}$ license of the same class to the foreign substitute.

## PROVINCIAL EDUCATIONAL ASSOCIATION.

126. The Superintendent of Education shall have authority to assemble and if desirable, at the Normal College, or any other place which may be approved ation thirds of the executive committee hereinafter provided for, a provincial enblic ${ }^{s c}$ association, whose object shall be to promote the efficient operation or discussion and system, and the professional improvement of its members by the discussion and dation of educational problems.
127. The membership shall be:
(a) Representative members entitled to enrolment on the payment of dollar at each annual convention; Ex officio, the Superintendent, the princip


#### Abstract

and professors of the Normal College, the provincial examiners, the inspectors of sehools, and the presidents of the universitics within the province; Elective, one professor from each university chosen by the faculty, one teacher for every twenty in each inspectorial division chosen by the institute (or in the event of its failure by the inspector), one delegate chosen by any school board or group of school boards employing twenty teachers, or by any learned trade, or industrial society or organization of provincial scope.


(b) Ordinary Members consisting of persons interested in any way in public education y Members consising of persons interested in any way in public
convention.
${ }^{1}{ }^{1}{ }^{128}$. The Superintendent, the principal of the Normal School, and ten other per-
one of whan at each annual convention by the orlinary members of the association,
Com of Whom shall be from cach inspectorial division, shall constitute the executive
dipoint its which shall have control of all funds raised by the association, and shall
difection its own secretary-treasurer to recoive and disburse those funds under its own
the asson. The executive committee shall have general management of the affairs of
gram of exion, especially in respect to the fixing of the times of meeting and the proofercises, subject to the approval of the superintendent of Education.

## Special Vacations and Days.

 138. Teachers engaged for a full school year in any schoolsection, who shall have taken a "mid-summer vacation" course
of at least at least five full weeks (thirty days) at the Provincial Normal or for cultural College, Truro, may be allowed in additional week, specially good reasons, two additional weeks, of vacation opening of the following school term (or other time if special s recommend it to the Inspector), on presentation to the requector not later than the end of the first half school year of a ${ }^{2}$ Certif for it by the school trustees, to which must be attached certifificate of satisfactory attendance and deportment from the sical principal of the summer school or the quotation of a phytraining certificate obtained.
by Other "mid-summer vacation", schools formally approved extene Education Department may be similarly recognized to the lomg. of one additional week, if the course was at least three weeks
lon

[^3]value of the afforestation of lands which cannot be so productive in any other manner, and to the bearing of forestry on the rainfall, drainage, climatic and industrial condition of the province, to $\mathrm{en}^{-1}$ courage the proper adornment of the school grounds, to cultivate a taste for the beautiful in nature, and to give some practical and objective lessons in tree planting, and the study of tree growth, for such objects the following directions are given:
(a) On such day of May as according to season, weather of other circumstances may be deemed most suitable, trustes are authorized to have substituted for the regular school exercises of pupils, the planting by the latter of trees, shrubs and flowers, on the grounds surrounding the school house. The day devoted to this purpose shall be known and entered in the register as "Arbor Day," and when duly observed full credit will be given for it in the apportionment of public funds, on the basis of the actual attendance of pupils as ascer tained by roll call at the beginning of the exercises or convenient time during their progress. Additional value and interest should be imparted by mingling with the $\mathrm{p}^{\mathrm{rac}^{\mathrm{Cc}}}$ tical duties of the occasion short addresses from the teach ${ }^{\text {her }}$ and other competent persons on the æsthetic and economic importance of arboriculture. During their summer visit ation, inspectors shall take note of all schools in connectiol with which "Arbor Day " has been observed.
(b) ful manners who have been able to observe this day in a the same within a week to the inspector, specifying the worb done on the occasion, and its prospective influence on the section. From these statements inspectors can have al the details necessary for their annual reports to the Superib tendent of Education.
(c) There will be found subjoined some practical suggetiog which will be serviceable to those who wish to make the oc ${ }^{c^{8}}$ sion a really profitable one.
(I) In selecting trees, it is well to avoid those that bear flowers or bear edible fru $\mathrm{fl}^{\mathrm{ith}}$ as such in the flowering and fruiting seasons are apt to meet with injury from ind and or mischievous passers-by, and to offer temptation to the pupils. Butternuts and chestnuts are not to be commended as shade trees. The balsam fir is obje or bros from the liability of its balsam to stain the hands and elothing. Deniduous or artive leaved trees are easily grown, their fibrous reets rendering transplanting a comp and and ${ }^{\text {gh }}$ ly simple operation. If care is taken, the young saplings of the em, miplelty. found in the undergrowth of the forest, can be transplanted without difficulty.
(2) No school grounds should be without a suitable number and variety of ${ }_{\mathrm{g} D}^{\mathrm{D}}$
 unattractive, and afford little or no shelter. On the other hand, evergreens, as use to spruces, pines, hemlocks and cedars, retain their foliage and provide a sheiter as ing to in winter as it is grateful in summer. Trees should always be planted accordib
defini
btances and being arranged either in curves or in straight lines, acoording to circumplaced sond with an obvious relation to the building and fences. They should not be interiere with the free play of lieht and air
(3) Our native trees grow so freely in the woods that we are apt to suppose they
growth as to be taken up by the roots and transplanted, to start at onee into a vigorous
trees to as before. This is a mistake. Great care should bo taken in digging up the
kaife, preserve the fibrous roots; long rumers should be cut across with a sharp $t_{0}$ clay. not torn. All trees thrive best in well-drained soil, varying from sandy loam made before the trees are brou deseriptions. The holes for the trees should always be too small. In frees are brought to the ground, and should be too large rather than ${ }^{80}$ as to be nearer the in, the better soil from near the surface should be returned first, thould be putarer the roots, but where the soil is at all sterile, and generally, there and sandy put below and round the ruots some well-rotted eompost, mixed with sand, ahould by loan, in order to promote the growth of the rootlets. In setting the tree it Out that placed a little deeper than it stood before, and the roots should be so spread atick in none are doubled. When finally planted the tree should be tied to a stout then be theh a way as to prevent chafing the bark. some mulch or stable litter should preferrod thatound the stem to prevent the roots from drought. Stirri:g the ground bould not by some cultivators to mulching. In transplanting evergreens, the roots be helped be exposed to air or light-especially the heat of the stun-more than can
effect, weral varieties of shrubs planted together in clumps produce a very pleasing mportant whe care of judiciously arranged flower beds will be to the children an t means of education.

## 141. Empire Day.

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

[^4]The object of the day is the development of the Empire idea with power, by a more dramatic and impressive demonstration than would be possible in the routine method of teaching necessarily characteristic of the most of the work
of the school. No set method is prescribed. Local orators may be utilized in short and appropriate addresses to the pupils and their parents. Teachers and pupils should take part in as effective and in as varied manners as possible from year to year. As a rule it is preferable to have it an exercise open to the public of the locality in the afternoon, the fore noon being devoted to phases best treated in the school room It is one of the days when the school flag should be flying. The British Red IEnsign (having the Union Jack in its uppet quarter) is recommended as the appropriate flag. The "Union" alone may be flown as a school flag, but it has also both a special naval and military significance.
(c) The exercises should not be directed to develop boastant ness in the greatness of the Limpire. They should be a study of the causes why it became great, and how it may continul to be great; of the history of the rise, growth and alliance of its different peoples, of the evolution of the elastic system of self-government, and of the development of that spirit of Empire unity which is a new thing in history as the En pire's extent is in geography. And most important of all the excercises should be an inspiration to stimulate all to seek how they may further reinforce the good tendencies and bind the distant members of the Empire more closely together in the bonds of reciprocal helpfuiness as well as of sentiment ${ }^{\text {tal }}$ love.
(d) As in the case of Arbor Day, all worthy teachers are ${ }^{\text {ex }}$ pected to file a report on the exercises of the day, no matter how brief, with the inspector of his or her division.

## RURAL SCHOOL LIBRARIES OF NOVA SCOTIA.

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

Prior to 1903 the Council of Public Instruction published (id
"Manual of School Law, Igor," and in the "JOURNAL OF EDUC TION," from year to year) the following regulations which continue to remain in force:
172. In the Revised Statutes of 1900, Chapter 52, Section 77 (e), authority is given for the raising of funds for books for the school library by assessment. the Council has prepared and published a list of books for such libraries, trustes, theis chasing such books with school funds should first send a list of proposed books, publishers, sizes and prices if possible, to the Secretary of the Council for its appro
thorough. In some schools, among those fully graded, the prescribed Readers may be
may profitably mastered before the other portions of the course; so that additional reading
"unary" primly be undertaken by the pupils. Such readings are known as "supple-
but only" and may be authorized by the Council for any section making application;
mastered, and conditions: (a) that the prescribed Readers have first been thoroughly
the school, and (b) that the "supplementary"' Readers authorized be the property. of
Reader.
of "Regulations 51, 52, 53, 69 and 70, referring to the equipment take Superior" Schools, High Schools and County Academies, of the the school library an essential part of the legal equipment withhese public schools which Inspectors can have enforced by the ding of public funds under the conditions specified.
Chapter 24 of the Statutes of 1903, is as follows:-
${ }^{4}$ a act for tie encouragement of rural school libraries.
$\mathrm{B}_{\mathrm{e}}$ it enacted by the Governor, Council, and Assembly, as follows:
Theasiory, the Council of Public Instruction may pay anally out of the Provincial
Gluon, the sumy teacher acting as the librarian of the school library of the school a tue and sum of five or ten dollars, according as the equipment of the school, the
ihtrin the standards of thescriv, and the general management of the school and library,
${ }^{\text {ry }}$ grant grands prescribed by the regulations of the Council for the smaller or larger ant respectively.
$\left.{ }^{4}\right)^{2}{ }^{2}$. No h Nothing in this Act shall apply to the schools in any incorporated town, or in
acer draw section employing a Class A teacher drawing a superior school grant, or a drawing an Agricultural or Manual Training grant.
${ }^{4} \mathrm{i}_{\mathrm{n}} \begin{aligned} & \text { Under the authority of this Act the Council of Public Instruc- } \\ & \text { has made the following:- }\end{aligned}$

regulations for rural school libraries.<br>\section*{The Grants.}

The The Rural School Library grants, authorized by statute (quoted above) are intendin simulate the formation and use of libraries in school sections other than those art already coss "A" Agricultural and Manual Training grants are drawn--which grants - conditioned to some extent by the existence of appropriate libraries.
fol y for the five dollar grant the books belonging to the library must be worth at least
of dollars, and at least 150 issues of books must have been made during the year
one For the ten dollar grant the books belonging to the library must be worth at least ear. hared dollars, and at least 300 issues must have been made to readers during the

## (io)

How to ght the Library Grant.
The teacher should give notice of the intention to compete for the larger or sinaller Library grant when intimating the opening of the school to the inspector. Where ${ }^{\text {no }}$ library has yet been organized, such intimation should be given as early as posible but the equipment should be complete at the end of January, and the facts fully stated and certified on the blank half sheet of the semi-anmual return of the school in February An informal statemont of the competition for the smaller or larger grant should be mad by every teacher competing, as a notification to the Inspector. Withont such notict endorsed on the semi-annal return no claim for the grant can be maintained.

The Library grants shall be paid with, and in addition to, the regular Provine isuled Aid at the end of the school year, provided the regulations and the instructions is with from time to time from the Education Department have been fully complied Insper provided the special Library Return accurately made out has been sent to the who tor with the regular annual returns of the school; and provided the Inspector wad special duty it shall be to examine and vouch for the correctness of the return the the deserving character of each school library in his jurisdiction, endorses th rary, and other returns of the school with his approval and recommendation.

## PROVISIONAL CATALOGUE.

The catalogue of October, 1903 , is merely provisional. It contains the titles of bnoks suitable for pupils, parents, teachers and students. The Superintender ${ }^{\text {ntc }}$ Education will be glad to receive suggestions from teachers, students, publishers , pers as to additional books to le put on the list as well as to the withdrawing of those ${ }^{\text {gidag }}$ seded by better publication; so that a more complete and better classified catalo may be issued

No Supplementary Readers-class $M$--are at present recommended. Redu. lation 173 will cover any possible demand for them, as Regulation 172 will cover ${ }^{\text {an }}$ demand for other books not on this catalogue.

Books recommended in the course of study, and to teachers in regulation 170 and in the Journal of Education specially, are also to be considered'as authorized school libraries.

## Marcif Annual School Meeting.

In some fishing districts it may be found desirable to take advantage of give provision of the law under which the Council of Public Instruction may fix for a jupl If anction an earlier date for its annual school meeting than the last Monday of be pe If any such cases exist, it is very desirable that these early annual meetings ${ }^{\text {sest }} \mathrm{g}^{\mathrm{e}^{8 .}}$ on the same day. The first Monday in March is selected as likely to be the most erally convenient date.

Sections feeling the necessity of an early date for the annual school meetipg should, through their trustees, make an application to the Council through the ir gil spector before the end of January, so that the Inspector may be able to transmit pub such applications with recommendations or comments thereon, to the Council o taten lic Instruction on the first day of February, when it is probable action can be ${ }^{2}{ }^{y}{ }^{\text {a }}$ and due notice given in time for the holding of the meetings on the first Monday March.

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

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

## COMPLETE LIST OF SECTIONS.

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

Inspectorial Division, No. I.


| No. | 24. . . . . . . Mill Cove. | N | 5 | Hunt's Point. |
| :---: | :---: | :---: | :---: | :---: |
| No. | 28. . . . . . . . Pine Plain. | No. | 6 | Western Head. |
| No. | 29. . . . . . . Deep Cove. | No. | 7 | Moose Harbor. |
|  |  | No. | 11 | Beach Meadows. |
|  | SOUTH QUEENS. | No. | 12 | Fagle Head. |
| No. |  | No. | 13 | West Berlin. |
| No. | S. Catherine River. | No. | 15 | East Port Medwa |
| No. | 2........ Port Jon. | No. | 18. | Gull Island. |
| No. | 3..........Cent Port Mouton. <br> 4......... Port Mouton, N | No. | 19. | White Point. |

Inspectorial Division, No. z.

## SHELBURNE.

| No. |  | Wast Sable. |
| :---: | :---: | :---: |
| No. | 5 | West Sable. |
| No. | 6 | . Louis Itead. |
| No. | 7 | Little Harbor. |
| No. | 8. | Matthew's Point. |
| No. | 9 | Rockland. |
| -No. | 1 I . | Oshorne. |
| No. | 15. | East Green Harbor. |
| No. | 16. | West Green Harbor. |
| No. | 19. | Upper West Jordan. |
| No. | 20. | West Jordan Ferry. |
| No. | 22. | Lower Sand Point. |
| No. | 23. | Sand Point. |
| No. | 30. | Port Saxon. |
| No. | 32. | Black Point. |
| No. | 33. | Roseway. |
| No. | 35. | Churchover. |
| No. | 36. | Birchtown. |
| No. |  | McNutt's Island. |

## BARRINGTON.

| No. |  | Port Clyde. |
| :---: | :---: | :---: |
| No. | $4$ | . Cape Negro. |
| No. | 6 | Cape Negro Island. |
| No. | 16. | . Bear Point. |
| No. |  | .Shag Ifarbor. |

No. 19........ Up. Wood's Harbor.
No. $20 . . . . .$. . Forbes Point.
No. 21 . ......... Charlesville.
ARGYLE.
No. I . . . . . . . Lower East Pubnico.
No. 2..........Mid. East Pubnico.
No. 3......... East Pubnico.
No. $\quad$ 5.........Up. West Pubnico.
No. $\quad 6$........... Middle W. Pubnico.
No. $\quad 7 \ldots$.....Lr. W. Pubnico.
No. S..........Argyle Sound.
No. 11............Central Argyle.
No. $14 \ldots .$. . West Glenwood.
No. $\quad 15 \ldots . .$. Lower Eel Brook.
No. $16 \ldots .$. . . . . El Brook.
No. 17........ Abram's River.
No. r8......... Morris Island.
No. 19.............. Surrette's Island.
No. 20. . . . . . . Sluice Point.
No. 21 . . . . . . . Amirault's Hill.
No. 22............ Hubbard's Point.
No. $25 . . . . .$. . North Belleville.
No. $27 . . .$. . . . South Belleville.
No. 28........ . Bell Neck.
No. $30 . . . . .$. . West Quinan.
No. 31.........East Quinan.

Inspectortal Division, No. 4.

## DIGBY.

| No. | $14 \ldots \ldots \ldots$ Port Gilbert. |
| :--- | :--- |
| No. | $41 \ldots \ldots \ldots$ East Ferry. |
| No. | $42 \ldots \ldots \ldots$ Tiverton. |
| No. | $43 \ldots \ldots$ Central Grove. |

CLARE.
No.

## ANNAPOLIS WEST.

No. 3........ Parker's Cove.

Inspectorial Division, No. 6.

## ANTIGONISH.

$\begin{array}{ll}\text { No. } & 32 \ldots \ldots . \text { Harbor Bouchie } \\ \text { No. } & 33 \ldots \ldots . \text { E. Harbor }\end{array}$
No.
No.
No.
No.
$33 . .$. ...... A. Harbor Bouchie.
70.......... Auld's Cove.
76.......... Frankville.
77............Cape Jack.

GUYSBORO.
No.
Riverside.

No. 13.............New Harbor, Upper.
No. $14 \ldots . .$. . Sandy Cove.
No. $15 \ldots \ldots$. .


Inspectorial Division, No. 7.


Ingpectorial Division, No. 8


## VICTORIA.

No. 18....... Upper Washabuck.
No. $21 . . . .$. . Gillis Point.
No. 25........ Estmere.
No. $32 \ldots .$. Indian Brook.
No. $37 \ldots .$. . South Ingonish.
No. $38 \ldots .$. Clyburn Brook.

| No. | $39 \ldots \ldots \ldots$ West Ingonish. |
| :--- | :--- |
| No. | $41 \ldots \ldots \ldots$ Neil's Harbor. |
| No. | $42 \ldots \ldots \ldots$ Middle Ridge. |
| No. | $43 \ldots \ldots \ldots$ Big Intervale. |
| No. | $44 \ldots \ldots \ldots$ Sugar Loaf. |
| No. | $47 \ldots \ldots \ldots$ Tarbot. |

No. $39 \ldots .$. . West Ingonish.
No. $\quad 41 \ldots \ldots$. North Harbor.
No. $\quad 43 . . . . .$. Middle Ridge.
No. $\quad 44 \ldots \ldots .$. Big Intervale.
No. 49........ Tarbot.

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

No. $\quad 77 \ldots .$. ....Trout Brook.
No. $\quad 78 . . . . .$. . Big Ridge.
No. $\quad 79 \ldots . .$. . French Road.
No. 8o......... Ocean View.
No. 81..........Gabarus Bay.
No. 82......... Gabarus.
No. 83........ Gull Cove.
No. $84 \ldots$. . . Gabarus Lake.
No. $85 \ldots . .$. . Belfry.
No. $86 \ldots . .$. . . . Canoe Lake.
No. 87....... . Upper Grand Mira.
No. $88 \ldots . .$. . . Grand Mira.
No. $89 \ldots . .$. . Victoria Bridge.
No. $\quad 90 . \ldots . .$. . Grand Mira, $N$.
No. 91......... Caledonia.
No. $\quad 97 . . . .$. . . Big Pond.
No. $98 \ldots . .$. . Irish Vale.

# (To vs 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
$0_{\text {serving the times of the regular procession of natural phenomena each season. First, it }}$ Tay help the teacher in doing some of the "Nature" lesson work of the Course of Study
copies are it may aid in procuring valuable information for the locality and province. Two
preser are provided for each teacher who wishes to conduct such observations, one to be
bent in as the property of the section for reference from year to year; the other to be
examin with the Return to the Inspector, who will transmit it to the Superintendent for
mination and compliation.
$\mathrm{O}_{0}$ What is desired is to have recorded in these forms, the dates of the first leafing,
grating and fruiting of plants and trees; the first appearance in the locality of birds mi-
jiven gorth in spring or south in autumn, etc. While the objects specified here are
ince, so as to enable comparison to be made between the different sections of the Pro-
locality is very desirable that other local phenomena of a similar kind be recorded. Every
common has a flora, fauma, climate, etc., more or less distinctly its own; and the more
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
$i_{0}$ observing all natural phenomena when going to and from the sehool, and some pupils
ditiote as far as two miles from the school room. The "nature study" under these con-
ing ons would thus be mainly undertaken at the most convenient time, without encroach-
achool school time; while on the other hand it will tend to break up the monotony of
able travel, fill an idle and wearisome hour with interest, and be one of the most valu-
Wholerns of educational discipline. The eyes of a whole school daily passing over a
each school section will let very little escape notice, especially if the first observer of
Par. annually recurring phenomenon receives credit as the first observer of it for the
most The observations will be accurate, as the facts must be demonstrated by the
Possibibudoubted evidence, such as the bringing of the specimens to the school when Te or necessary.
are lo all observers the following most important, most essential principles of recording Sortshasized: Better no date, no record, than a wrong one or a doubtrul one.
hould out of season due to very local conditions not common to at least a small field, poses not be recorded except parenthetically. The date to be recorded for the purtind formpilation with those of other localities a butterfly emerging from its chrys alis in a shing immediately after it. For instance, a anuary would not be an indication of the gheltered cranny by a southe peculiarly heated nook in which the chrysalis was Whered; nor would a flower in a semi-artificial, warm shelter, give the date required. enth these sports out of season occur, they might also be recorded, but within a parpearance. indicate the peculiarity of some of the conditions affecting their early ap-
and These schedules should be sent in to the Inspector with the sebool returns in July
ad the ebruary, containing the observations made during the Spring (January to June) The Fall (June to December respectively.)
the Remem register has a page for a duplicate of such records.
a mead of the schedule on the next pase: for if either the date, and other blanks at
${ }^{\text {cmat }}$ of the responsible compiler should be omitted the whole paper is worthless and
be bound up for preservation in the volume of The Phenological Observations.

[^5]
# PHENOLOGICAL OBSERVATIONS, CANADA. (1909 Schedule.) 

(For the months July to December, 19 ; or the months January to June 19 .) Province..................County...................... . . District. Locality or School Section No
[The estimated length and breadth of the locality within which the following observations were made. . . . . . . . . . . X. . . . . . . . . miles. Estimated distance from the coast. . . . . . . . . miles. Estimated altitude above the sea level feet.
Sliope or generalyexposure of the region
General character of the soil and surface
Proportiondofforest and its character.
Does the regionlinclude lowlands or intervales? ..................................... and river
or stream. . . . . . . . . . . . . . . . Or is it itall substantially highlands?
Any other peculiarity tending to affect vegetation?
The most"central Post Office of the locality or region
Name and Address of the Teacher or other compiler of the observations responsible for their accuracy
(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 Ivy (Nepeta Glechoma), flowering
17. Indian Pear (Amelanchier Canadensis), flowering
" " ${ }^{\prime}$. fruit ripe
18. Wild Red Cherry Prunus Pennsylvanica,) flowering
19. "
20. Blueberry (Yaccinium Can. and Penn.), flower ng.
21. Tall Buttercup (Ranunculus acris), flowering. ................
22. Creeping Buttercup ( R , repens) flowering.
23. Painted Trillium (T. erythrocarpum), flowering
24. Rhodora (Rhododendron Rhodora), flowering
25. Pigeon Berry (Cornus Canadensis) florets opening


## PHENOLOGICAL OBSERVATIONS-(Continued).


[Day of year corresponding to the last day of each month.] Jan. 3r. April 120. July 212. Oct. 304. Fel. 49. May 151. Aug. 243 . Nov. 334. March 90. June 181. Sept. 273. Dec. 365.
(For Leap years increase cach number except that for January by i
(Mightion of Bieds, met.)
8ı. Wild Duck migrating
82. Wild Geese migrating
83. Song Sparrow (Melospiza fasciata)
84. American Robin (Turdus migratorius)
85. Slate coloured Snow Bird (Junco hiemalis)
86. Spotted Sand Piper (Actitis macularia)
87. Meadow Lark (Sturnella magna)
88. Kingfisher (Ceryle Alcyon)
89. Yellow Crowned Warbler (Dendrceca coronata)
90. Summer Yellow Bird (Dendrieca aestiva)
91. White Throated Sparrow (Zonotrichia alba)
92. Humming Bird (Trochilus Colubris)
93. King Bird (Tyrannus Carolinensis)
94. Bobolink (Dolchonyx oryzivorous)
95. Americun Gold Finch (Spinus tristuis)
96. American Redstart (Steophaga ruticilla)
97. Cedar Waxwing (Ampelis cedrorum)
98. Night Hawk (Chordeiles Virginiansus
99. Piping of Frogs
roo. Appearance of Snakes
ior. Senecio Jacobaee (St. James Ragwort); Is it found within the school sect ${ }^{\text {ob }}$ If so, to what extent? etc.
102. The Brown Tail Moth, ete.

## REPORTS ON PHENOLOGICAL OBSERVATIONS.

(Year Ended June 30th, 1909.)

Nova Scotia.

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

The Province is divided into its main climatic slopes or reSions not always coterminous with the boundaries of counties. such es, especially those to the coast, are sub-divided into belts, indand (a) the coast belt, (b) the low inland belt, and (c) the high
and belt, as below :-
$N_{0}$
Regions or Slopes.
I. Yarmouth and Digby Counties (a) Coast. (b) Low Inlanls. (c) Il igh Inlands.
II. Shelburne, Queens \& Lunen'g Co's Annapolis and Kings Counties
VI. B Chequid Slope (to the south),
VII. Northecto Slope (to the northw't),
II. North'rland Sts Slopes (to the N'h)

1X. Richmond \& Cape Breton Co's
X. Bras d'Or Slope (to the southeast)

Inverness Slope (to Gulf, N. W.),
These observations are especially valuable as furnishing a 8timuluse observations are especially valuable as furnishing a
sch portion of the Nature Study work in the public Dupols of the Province. It is, no doubt, starting very many young them on the beginning of an observant course which will make specially useful citizens; while it substitutes an enjoyable cupation for otherwise monotonous hours spent on the road to and from for otherwise monotonous hours spent on the road to schedules are bound up in annual volumes to be preserved in archives of the Province for future students of our climate

# CRITICAL NOTES BY THE STAFF OF PHENOLOGISTS. 

## Region I.-Yarmouth and Digby Codnties.

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

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

Miss Wetmore of Cedar Lake sent me a specimen of Andromeda polifolia and her schedule has some very interesting notes; c. g. "A flock of birds, about 100 in number" consisting of bobolinks, warblers, song sparrows and other varicties, was seen, Sept ${ }^{9}$, when on my way to school. Every bush seemed alive with them. I never have sen a more splendid sight."

Bobolinks were very rarely seen in Yarmouth County previous to 1907, now they are nesting here.

A boy, eight years old, brought me a buttercup with the petal of a Forget-me - ${ }^{2}$. growing on it. The most of the schedules show that the few teachers who are mainb the observations, are doing it very accurately.

Thirty three schedules were received from this region; fifteen from the coasti thirteen from the Low Inland; and five from the High Inland.

The following are errors in the dates given.

|  | Too Early. | Too Late. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Schedule No. of Plant or Bird. | $\begin{aligned} & \text { When First } \\ & \text { Seen } \end{aligned}$ | Schedule No. of Plant or Bird. | When First Seen | Schedule No. of Plant or Bir, | $\begin{aligned} & \text { When First } \\ & \text { Seen } \end{aligned}$ |
| 1 | 88 | 40 | 162 | 1 | 137, 142 |
| 4 | 106 | 86 | 100 | 6 |  |
| 6 | 112 | 87 | 116 | 16 | 178, 175 |
| 10 | 91, 113 | 89 | 106 | 23 | 108 |
| 19 | 110 | 90 | 113 | 88 | 168 |
| 20 | 120 | 92 | 112, 113 | 90 |  |
| 23 | 139 | 98 | 1ss | 92 | 171, 173 |
| 28 | 138 |  |  | 94 | $19{ }^{1}$ |
| 35 | 125, 146 |  |  | 97 | 268 |
| 36 38 | 144, 158,159 |  |  |  |  |
| 39 | 162 |  |  |  |  |

REGION IT.-SHELBURNE COUNTY.

## E. Chesley Allen, The Academy, Yarmouth

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

The sheets contained a grand total of 1979 observations, of which 1473 were foul ${ }^{1}{ }^{d}$ mits making a vations, of which onable accuracy of nearly 75. This percenable limits. making a percentage of reasonable from $56{ }^{\text {to }}$ 93, the latter being that of the schedule sent in from Middle Ohio, by Elizabeth sent from Upper Ohio by Flinor A. Kavanagh.

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

Many dates for flowers becoming common are only from two to four days later than when reported as first seen. I would like to have sone ideas as to what standard
"abundance should be considered as "common" for flowers, etc., though one can difficulties in the way of fixing such a standard.
One observer evidently gave dates when alder and maple flowers showed themWithout waiting for them to shed their pollen.
*ill Wexists is all weary of the Rhodora and Kalmia confusion, but that such confusion too evident.
Some observers are taking "gold thread" for "star flower".
Sanguinaria Canadensis was reported as first seen at Doctor's Cove, May 7, and
hen idenay 12 At present I am inclined to believe this to be another case of misentity, but I should like to receive proof to the contrary.
${ }^{4} \mathrm{H}_{0}$ Itrust that the teacher who observed shearing of sheep early in March persuaded Anor to keep them housed.
${ }^{0}$ say ther observer had potatoes planted before ploughing begun, but had the cour-- hat $J$ uncos remained all winter.

Wul ${ }^{0}$ some sheets many dates were found for robins, jumeos, and song sparrows thow too early for arrivals from the south. Doubtless winter residents were observed. onax-coaned, or myrtle warblers also frequently remain over winter feeding on ${ }^{4}$ ni $h$, , So thed bay-berries. Flickers, too, may occasionally be seen during the winter
gration from early dates for these birds, while they do not indicate the beginnning
 geese are reported as going south or leaving in the fall near the last $u$ Thiden common "black duck", (Anas obscura) and severai other ducks are winter in Nova Scotia. I believe that in the southern part some geese remain over
Thing This suggests what may be another sounce of error. I suspect that if birds are seen in, they are put down as migratiny south. The chances are that this is true in the fall, but small birds, since they migrate almost entirely by night, are ten migrating, but may be heard almost any quiet night in the fall.
bian The only way to find the fall migration dates for birds, is to keep a record of the Hopa $_{\text {A meadow lay }}$ day last date seeu being the close of the migration for each species The. One was taken at Comeau's Hill. Yarmouth County, in the fall of 1908. Ton as second column is still being filled in for snakes. Perhaps this is not altogether * Luthrge nu
numbers of additional observations were given by Jennie A. Doane, Bessie Kathryn Thorburn and Elinor A. Kavanagh.

## Region II.-Queens County.

[^6](1). Do not be too modest to give your name and address. None of the gchad ${ }^{\text {D }}$ from your county are such that any teacher need be ashamed of them.
(2). Give the name and number of the school section. Often it is very inom net ient for the compiler to ascertain these when omitted.
(3). In reporting additional observations, give the scientific name in preferif to some local name, such as "Bird's Eye Primrose."
(4). Look for the White-throated Sparrow, the King Bird and the Gold Fiod These birds must be fairly. common in your sections.

As the Summer School of Science will meet at Liverpool, this year, the of Queens County will have an excellent opportunity to settle any doubts have in regard to the Rora and fauna of their districts and, by mecting others interet in Nature Work, to add to their own zeal and interest, and thus make the observing an ever-increasing pleasure.

## Region II.-Lunenburg County

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

Forty-two "Local Nature" Observation sheets were received from the teeach hefich Lunenburg County. Of these fourteen were from Coast (a) and twenty-eight High Inlands (c). Nine were received from Low Inlands (b).

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

The only plants not reported are;
5. Blood-root (Sanguinaria Canadensis).
6. Adder's Tongue Lily (Erythronium Americanum).

Senecio Jacobaea has not yet been found in this County.

> Region III.--Kings and Anvipolis Counties.
> Ernest Robinson, B. A., Principal Horton Academy.

The reports from this region were up to the average of previous year, and of the month instend of the day o *
*: One observer gave Rhodora, first seen, 17s. A number of such errors leads ${ }^{\text {d }}$ a ask what the observer means by "first seen?" It certainly does not meat, they first see it, unless they have been looking for it. What is meant when columns are filled in with same date? Is this the same error? They probably that when they first see it, it is becoming common.

Errors:
Fi "Spring Beauty" was reported from one place only, and that was wrong. t. "Pigeon Berry", opening, 180. Fruit ripe 212.
"\#ena, "Star Flower" is usually reported too carly. I doubt if it is the star flower that
"Lambkill' reported too early on a number of sheets.
One report was thirty days too late on all observations. This was due to mis-
culation.
"Spring plowing" 82 would be unusual.
Quggestion: Be careful in filling in blanks at head of the report sheet. The 8 are valuable to the compilers, often explaining inconsistencies.
$I_{8} D_{\text {alh }}$ ousie only fifteen miles from the sea coast?
The compiler wishes to thank Miss Bertha Oxuer of Kentville Academy for valuable

## Region IV.-Hants and Colchester, South of Cobequid Bay.

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

Nineteen schedules were received from this region. Two were rejected because ere recorded in day of month instead of day of year. Another was rejected ${ }^{6}$ a of dates were about one month too early. Evidently the compiler made the of thaking the day of the year given in the table as the first day of the month e. The last. The other sixteen schedules were neatly done, fairly full and pretty Worn ${ }^{\text {Some }}$ fare are still in error about the Lambkill as it was reported in bloom during
tident days of May, whereas it is never found till a month later. These persons are reporting Rhodora as Lambkill.
The The report on the birds is hardly satisfactory, there being too great a difference
"t " dates "when first seen", Several are too carly, while many others are much too
Study, when first seen'. Several are too early, while many othe observation, will easily remedy these defects.

## Region V.-Halifax and Guysboro Counties.

Geo. R. Bancroft, B. A., Science Master, Halifax Academy.
Whioh is enty-eight schedules for year ending July, 1909, were received from this region, teen less than the number of last year.
400 We are sorry to note the decrease, as it shows a lack. of interest in nature-study (D). Nin
of The best schedules were those received from the school districts of North Interval, ${ }^{\circ}{ }^{\circ}$ meervations Town, Ecum Secum West, Smith's Cove, and Sibley's. These lists Th Three observers used the day of the month instead of the day of the year, in report their obsers used the day of the month instead of the day of the year, in reabsence of Senecio Jacobaea, while Miss Ferguson reports it as abundant in

North Interval, Guysboro County. In compiling many irregularities and errors wers found, which have been pointed out so often in the Journal, that it seems useless ${ }^{\text {o }}$ enumerate these same errors from year to year.

I should be pleased to aid any beginners, who may find difticulty in the work ol classification.

Regions Via, Vib \& ViI. Cumberland and N Colchester Countifes.

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

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

The total number of schedules received from this section was 76, region furnishing 37, VI B., 13 and VII. 26. The schedules were all fairly ueat, and abst vations in most cases seem to have been carefully made, altho' some "old time profession. still exist. These must be made by teachers who have recently entered the prot jot $\mathbb{R}^{\mathbb{N}} \mathrm{A}^{\mathrm{D}}$ or by those who do not read the reports upon these schedules published in the onaging of Educatrov each year. It is quite evident that some errors are made in Candennd from the day of the month to the year day. One olserver gives Cornus con this kid "fruit ripe" two days after flowers were "becoming common." An error of this can only be ascribed to such a mistake.

The farm and weather phenomena should receive more attention. No schedul gave a full list and a great many did not show even a partial one. The bird obserrect tions are very few, and of those that were recorded fully fifty per cent were incorre

Many teachers still need to be cautioned in regard to filling in the "when beconing common" column. It would appear that some teachers followed a mathernation formula rather than the results of careful observations.

The following notes may be of interest:-
(a) Alnus incana, Populus tremuloides and Equisetum arvense were seldom ${ }^{\text {ar }}$ rectly reported.
(b) Hepatica triloba has one observation which has been recorded. This pitaly is not widely distributed in the province and the compiler is not suffic ther it acquainted with the locality from which it was reported to know whe actually occurs in the vicinity.
(c) Trillium Erythrocarpum should receive many more observations. The fact which that it is to be found in the woods should not prevent a record as it is a plant which will readily interest any pupil.
(d) Rhododenilron Rhodora and Kalmia angustifolitom are still confused, buit already said, the teachers who make these blunders after all that has been wh report on this subject cannot be interested enough in this work to read the rep yio that appear from time to time. Teachers should look for No. 26 about toria Day" and No 36 about the last week in June.
(e) Cornus Canadensis is fairly well reported, but from the early dates of in many cases it would appear that several teachers mistake the opening involucre for the actual flowering.
(f) Clintonia bor ealis is a common plant in all our woods and should have may more observers. The same may be said of Brunella vulgaris, a plant found by most all roadsides.
(g) Many of the records given for Phleum pratense are early. This probibly arises from taking the heading out for blossoming.
(h) Many of the weather observations have to be omitted. One obserper "First autumn frost" 180. Records of this nature are worthless.

## Regron Vil.--Pictou and Antigonish Counties.

## W. P. Fraser, M. A., S'cience Master, Pictou Academy.

Counthere were about the usual number of schedules from Pictou and Antigonish
improve, 44 in all. Six of these were from Antigonish County. There was a decided
accuracy of in many of the schedules both in the number of observations and in the cy of the records. Some deserve special mention.
Sch The schedule showing the largest number of observations came from Hopewell And ab, Miss Ada S. MacDonald, teacher. The regular schedule was nearly complete ${ }^{\text {carefulnout }} 200$ additional observations were recorded. Moreover, the records indicated 4tudy. And accuracy of observation and a rare enthusiasm and interest in nature Maxwell, Another full and accurate schedule came from W. Br. River John, Miss Lola
though, teacher, and one from Clencoe school, Miss Mary A. Thompson, teacher,
 and Jean V. Ballantyne, Pine Tree school; Miss W. Irene Thomps them were, Countss Mary M. Cameron, Sutherland's River. The best schedule from, Blanchard,
Other sch was sent in by Miss Mary C. Macdonald, Hallowell Grant School. Thtigonish
ofser schedules though accurately and carefully filled out, yet did not contain enere
vations to rank them with these mentioned.
lioned. Seral of the schedules showed the usual mistakes, some of which may be men4fe. The dates for the Field Horsetail and the Ground Ivy are in many cases too hiodora servers should make sure of the correct species in the former as well as in the of the Coumbaill and Pale Laurel. The latter species seems to lje rare in this part Cunty at least, the others are very common.
in hin the case of the Hawthorns it might be well for observers to record the one grown Owas ges as the English Hawthorn. It may be recognized by its deeply 3-5-lobed
place, ind its small dark-red fruit with one nutlet. The others, which usually have
may unded-serrate leaves and bright-red fruit with more than one nutlet, may be
dy beloner the Scarlet Fruited Thorn (Cratuegus coccinta). None of our hawthorns
Eecies. Thy to the latter, but the beginner need not expect to recognize the different
${ }^{2}$ Id in $_{8}$ There should be more records of the Yellow Rattle. It is very common in fields,
is in bloom about Pictou before the close of the term.
Mond Many of the dates of the bird migration are too late and have to be rejected, but
"port the as 106 and 107 for the Night Hawk are about a month too early. A few Meadow Lark which is probably not found in these counties.
The The dates of the thunderstorms should be entered as the day of the year rather
h the day of the month.

Regions Viif, IX and X.--Cape Breton Island. M. D. Davidson, B. A., Principal Public Schools, North Sydney.
new ${ }^{7}$ singedules were sent in-48 from Cape Breton and Richmond and 27 from Inver-
(with
and Victoria.
$w_{\text {ith }} 259$ ictoria. Many of these were prepared with care, notably, Bay St. Lawrence observations), Sky Glen and French Road.
Tear Three teachers failed to sign their names. Some used day of month instead of
ay. Several filled in column for "first seen" but left "becoming common" blank.
Teachers should be careful to place all dates directly at end of dotted line.
Some errors noted:-

1-98 too early for Alder catkin shedding pollen.
2-102 too early for Aspen.
130, 136, 130 for 6 , and $128,130,119$, for 7, reported from Nyanza, Mabou and Gairloch are very obvious mistakes as the white violet flowers several days before the blue.
9. 118 too early for red maple flowers shedding pollen.
12. 160 late for dandelion.
14. 172 too late for gold thread and 119 too early.
16. 180 late for ground ivy.
29. 130 early for star flower, probably gold thread; the latter should be about 1st May, the former, 1st June. The plants are casily distinguished by the roots.
35. Seven observers called. Rhodora, Pale Laurel.
36. In two cases 36 was reported 14 days before 35. Pale Laurel should be from 15 to 20 days before Lambkill.
50. 220 and 248 too late for Fall Dandelion.
63. 210 late for first seen.
85. Bay St. Lawrence gives 114 for first seen, while in extra observation alo colored Junco is reported 98, which is correct date for 85.
90. 98 too early for summer yellow bird, probably mistake for yellow palm warbler
98. 118 too early for night hawk. One observer reports it 14 th Jan.

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

Meadow Lark reported from St. Patrick's Channel.
Grand Mira North, Valley Mills and Horne's Road. It does not come to ${ }^{\text {Cbp }}$ Breton, as far as I can ascertain.

One observer omits 40 and reports common white daisy among extra obser $\mathrm{ra}^{\text {tio }}$ The common white daisy is "Ox-eye daisy."

Another omits 49, and reports "Rose flower" among extras.
Several teachers reported frogs and snakes going south a few days after their firt appearance.

Another reports lastsnow whitening the ground 10 days after last snow dying ${ }^{\text {if }}$ the air.

## Notice.

Change of Dates for the Phenological Schedules.
It is proposed to have the schedules of observations hencemard sent in twice a year (with the semi-annual returns). This to angement will enable the Education Department more easily to compile the information in periods of the Calendar year, so as in be more readily comparable with phenological observations other countries, and with the voluminous meteorological stacollected, compiled and published by the Dominion.
The schedule sent in at the end of the first half of the school of is intended to cover the time from the ist of July to the end December-thus completing the Calendar year.
The schedule sent in at the end of the school year is intended June. Whe Where the same teacher is employed in the section during of Febole calendar year, the schedule sent in during the first week ruary, is recommended to cover the whole calendar year, mill the ist of January to the 3 ist of December. Such a schedule of $\mathrm{its}_{\text {s }}$ complete in itself for the whole calendar year, and the fact repeating the contents of the June schedule will be no inconWener to the compilers, while it will reflect favorably on the This course may be followed by a teacher new to the section, ${ }^{\text {Provided }}$ the previous teacher left the record on file or in the

Whenever the observations for the Calendar year can be ent complete, there is an advantage in giving it in the schedule in with the February returns.

 TO THE P. E. A. 1gos ANi) AMENDED.

[For further diseassion curl :mmentment at the meeting of the Provincial Edacations Assueiation, 1910.]

The Committee appointed by the Provincial lducational Association "to af the with the Superintendent of Education in defining and determining the amounts of $\mathrm{sch}^{\mathrm{h} 00}$ subjects of the newly adopted High School program, in revising the Common follows Course, and in effecting the best articulation between the two," beg to report as follo

Your Committer held its first meeting during the Christmas vacation of $190600^{7}$.
After a somewhat extended discussion of the general features of the existing courfed of study, sub-committees were appointed each to prepare a course of study in a spe band department of the school promram. These reports it was hoped to have in the of the general committee for consideration at New Year, 1908 . Failing this, the prese committee was obliged to postpone its second meeting until shortly before the pry the meeting of the Provincial Educational Association. A resolution, empowering bublid various sul)-committees to add to their personnel representative teachers of the pitte schools, has throughont been acted upon, and the hereto attached sub-com in pur reports are presentod as the findings of sub-committees considerably enlarged in pas stance of this resolution. It is in place here to mention that your Committec didg experienced no little embarrassment through the circumstance of members res ${ }^{\circ}{ }^{\circ}$ far apart and being unable to confer, except by mail, and through a general reluctaing ${ }^{9 \mathbb{1 0}}$ its part to commit the Education Department to:any considerable expense in print pro exhaustive report and fully detailed courses of stady which would probably not pr final and definite without much alteration.

After a careful survey of existing conditions in our public schools and a critical reviow of the present, common school program, your Committee has to report dure in its opinion, the present program is, on the whole, well balanced, correct in ed un ${ }^{\text {p }}$ tional principles and judicions in detail. The general preseriptions are founded duces an acceptable educational philsonphy; they set forth distinctively and clearly ${ }^{\text {ed }}$ the tional aims universally admitted to be true; and they briefly but skilfully sugge specis) pedagogic procedure appropriate to a great variety of school activities. The $\mathrm{sp}^{10} \mathrm{a}^{10}$ prescriptions for the various grades are also admirable, the whole standing as a ${ }^{\text {anding }}{ }^{8}$ ment to the intelligence of our educational administration, not merely illustrat time close touch with the educational progress of the world but revealing from tithe the tion. a prophetic insight into movements hitherto discernible only to the seers of edran our con $n^{10^{10}}$ As instances of educational foresight we would point to the treatment in our $\mathrm{col}_{\mathrm{phsich}}$ school program of manual-traning, household science, nature-study, and phy training.

Had we but a corns of teachers trained to interpret and to administer the existing it program, little would intoed, be wanting to progressive public education. be distincily understood, however, and constantly borne in mind that we have no $\mathrm{gin}^{\mathrm{su}} \mathrm{d}$ corps d'clite except for a limited proportion of the fifty per cent. of our teachers trad ped at the Normal College and a limiter proportion of the remainder blest with good popper gogical antecedents and special aptitudes. This condition admitted, it would ap ether that some particular consideration is due those large numbers of our teachers who er from from youth and inexperience, or from want of training and of special aptitudes, or ${ }^{n} n^{\text {nt, }}$ lack of extensive knowledge, of sense of educational values, and of sclective judgescrip are incapable of interpreting and of utilizing except meagerly the close-packed prest tions for the various courses of study in the eight grades.

In short, your Committee would state with all possible emphasis that the ultimate
revision of the existing program of studies must consist, in the main of a fuller-
indeed an indica a very full-detailing of the content of each of the subjects and and indicated treatment of those details calculated to reveal their educational the Engomic values and the appropriate pedagogic method. Everywhere throughout of Etudy hash speaking world, educational administrators and framers of courses programs have until lately overlooked the necessity of providing the teacher with faithrams such as here described. They have proceeded, as it were, on the by leaving the average teacher is little short of a creative and executive genius, and that, individug as much as possible in the program of studies to the judgment of the beneficial, there would result a stimulation of initiative which would diffuse itself to protest among the entire body of teachers. The time has now fully come for us chafe und that we teachers have been overestimated. We are, in fact, beginning to Judyment. The irony of circumstances which leave so very much to our individual ome one else'te responsibility is greater than we care to assume. Surely, there is - judgment to which we may authoritatively refer when our own fails us.

And so it is that time and experience have not borne out the faith in which the
Wefind the brief and pregnant courses of study were framed. On every hand, of studies throws upon the common-selion tury interpreted and detailed program Workt and the best-trained teachons faint under an intolerable burden. Even the in king out fresh lessons in half a dozen subjects, the effort of daily forecasting and the subject-matter lessons in half a dozen subjects, lessons expected to be consecutive and teacher's burder and progressive in treatment. In the rural miscellaneous school
fid three teachen is at a maximum, decining as we pass through the schools of two
that it is theachers until the fully statfed departments of town schools are reached.
at can least rural school teacher, so often untrained, inexperienced, and ill-schooled
A further elaboration of the evils attendant upon courses of study sketched merely if outline is perhaps unnecessary here and may best be left to sul)sequent discussion ${ }^{v}{ }^{\text {olvis }}$ be invited. Should a parallel be desired to the enormous labor in which it in-
Upon the conscientious teacher, let our readers imagine the high-school teacher called of trature, work out his plan of daily lessons in language, mathematics, the sciences, and
treatment unaided by the customary text-books which ensure to him consecutiveness - and daily allotments of work.
$\mathrm{detan}_{\text {ail }}$ Before proceeding to illustrate in the concrete the courses of study as we would onr them, let us here anticipate an objection which may possibly be urged against mr mechanmendation. It may be thought that an exhaustive prescription would result ${ }^{\text {Prepech}} \mathrm{Ch}$ anizing instruction. In reply we would urge that the more exhaustive the ${ }^{\prime}$ in instruetion the clearer will stand revealed both the educational aims and the methods Wilh wing a course Even the feebler teachers will derive confidence and effectiveness by of its a compse of study which ensures correctness in subject matter, consecutiveness,
thatm. Mechaning economy of resources both of pupill follow rather, from vartainty
ir, from definitention of the function of the teacher wad the poorly woh vagueness
bratimid, wavering, and tescription; for the untrained and the poorly schooled teachFond to a minimg, and fearfal of doing wrong, speedily reduces instruction in every mind the three R's, she is content and to a routine of imparting tormal facilities. Be-
 the knowledge and less experience.
Tro those who may fancy that, in prescribing courses of study, the ideal condition
ex $\mathrm{k}_{8,}$, we at where the prescriptions are made by reference to pages of certain text
boorience would reepectfully submit that, except for those teachers whom intelligent
${ }^{\text {a }}$ K Prescriptions are dangerous; and this observation we would exted syllabus, text-
be mald as to the common school. Prescription of the content of instruction should
of to terap terms absolute and not relative to books. To prescribe from books alone the mernorizine idle teacher into substituting for instruction more or less mindless tasks jugtifformatig. The teacher who lacks initiative and the ability easily to organize 4udy ${ }^{\text {cation }}$ for contained in the text finds the mere text-book prescription a partial Proil is phenomena is supplanted by the study of books. The intelligence of the is stifled by shutting out from him original sources of knowledge and leaving
him ignorant and unpractised in the art of acquiring knowledge except at second-hand, a condition of things still deplorably common in our schools and one toward the oor rection of which the framer of courses of study should bend all his energies. For, while your Committee would, in no sense, be held to underrate the ability to procure knowledge through reading, or to advocate the dispensing with text-books, it clam in that the highest efficiency, intellectual and economic, will never be approached if schools which fail to recognize the superior value of the ability to gather knowledge and experience at first-hand. We live in a world of great opportunities, in a new lath and amid economic and social resources comparatively unexploited and unexplored Our economic progress and the vitality of our civilization depend largely upon thd capacity of our people to recognize phenomena and to deal with actual conditions aned ooncrete realities. The methods of childhood and of school days should be fashild will in view of the necessities, the opportunities, and the conditions which the child meet with in manhood and womanhood years; and these methods will be sufficien the complied with where the necessities, opportunities, and conditions amid which aijel child now lives and moves are made the chief medium of instruction and the ofto means of education. Accepting this principle in education, the text-book falls int gudde proper and useful place in the well-conducted school as labor-saver and partial gust to the teacher, as home-companion and montor to the pupil. Often, too, it must main the one and only source of information to both teacher and pupil.

A word may be spoken here to allay the fears of those who suppose that in de ${ }^{-}$ tailing at great length the various courses of study and indicating both aim and topice ment, we should be removing the opportunity for initiative in the selection of to and illustrations, or in the choice of methods of approach and of treatment.

So far as topics and illustrations of principles are concerned we protest that the ${ }^{86}$ are of infinite number and variety. Each field of knowledge as represented in ang the subjects of the common school is boundless; and the teacher who is original of top and ambitious enough to desire to improve upon or to modify the selection of trusted to and illustrations offered in any or all of the courses of study may safely be truthroug do so. Indeed, such an one is the sort of experimenter that is desired-the sort thro whom the gradual perfection of tentative courses of study will be accomplished.

As to limiting the teacher in methods of treatment, that is not the result we 100 for in associating with the content of instruction suggestions as to its uses and its meal toward the achievement of educational ends. Far from it. We would remind and objector, however, that presumably, the teachers who are to administer the progr and of studies and the authorities who framed it are of one mind on educational aims no values and in harmony upon matters of general method, and that, therefore, no and hardship would be felt if, in respect to aims and general method, the program of prido courses were coercive. As to particular methods, these, like illustrations of rearch oiples, should remain a field for the individual experimenter, whose study and reand to will afford perennially welcome contributions to the Education Department and pedagogic progress.

A word to those who fear that the present program and courses are overloaded How does it come to pass, may we ask, that teachers of equal opportunity but of differing aptitude disagree upon this matter? The question has been threshed out at wo th times and in sundry places, and some years ago the attention of the educational wherb was seriously directed toward inquiry into the merits of the complaint. Everyliding overoding candid inquiry arrived at virtually the same conclusion, namely, that overt to the of programs and overpressure do exist but that these are essentially due not ficien presence of too many subjects in the common-school program but to the deforily interpretation of the purpose of the various subjects of the program and to vageh and imperfectly defined courses of study. Common-school as well as high-scmert courses were defined sometimes simply by naming the subjects, sometimes in a sketcho sentence or two, and frequently by indicating pages in specified text-books, the sincipal. ing-in of the detail in proper perspective being left to the teacher or to the princigist In many cases, the principal, whose profession was that of a high-school speciam was less capable of interpreting and detailing than were his subordinates in the ${ }^{\text {co }}$ mon-school grades.

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

R's.
their Wery often, as is still the case in many of our own schools, worthless topics found Wentiay into the various courses, or unimportant orles were set forth in detail while soutials in received scant treatment. The arithmetic of such schools was likely to litele provision in probs of alligation, of grindstone partnerships, or curious puzzles, while ${ }^{8}$ truse provision was made for practising pupils in common and useful calculation. Abbelonging toms of grammar and analysis and formulas of parsing usurped the place of expressio the correction of common errors and the enlargement of the pupil's powers ony pression. Geography was as likely to deal largely in inapposite problems of astronoby or lists of unimportant capes, bays and counties in strange lands as to deal in the pretation of the phenomena exhibited in our immediate surroundings and the interearth in its relations with man as an industrial and social factor.
intereven worse, perhaps, was the failure to adapt the exercises of pupils to the varying minjects and developing capacities of succeeding grades and ages. Since the same ollowed Were, in a general way, prescribed for grades three, four, five and six, it often thesed that the same topics, sub-topics and illustrations were repeated throughout lumpruction bith virtually the same treatment, until the substance and form of the When this hapame a sing-song in the pupil's ears and came trippingly from his tongue. omothing happy end was compassed, it was fondly believed that the pupil had achieved chaticing worth while. III organized as was such a condition of affairs, an even more of the state was reached, where, as in country schools, none except the vaguest reeord the farmer teacher's work remained to guide the incoming teacher in his treatment courses in the different grades.
Legrt it may be presumed that in the upper grades of the common school, where Well grade used in various subjects of instruction, the teaching must of necessity a the fraded, we now proceed to affirm the unwarrantableness of such a conclusion. Wed first place, text books are not used in nearly all of the subjects. A reading-book Tay remotest waice selections of literature is not a text-book in reading; it does not in be said way touch upon the pedagogic principles or the art of reading. The same of a writing-book.
To particularize further, there is no text-book prescribed to indicate to the teacher 4xt fore and treatment of the history set down for grades five and six; no geography grades four and five; no nature-study text for any of the grades. True, the and intelligent teacher has accepted the recommendations of the Journal or or notice found light and leading in the reference books from time to time brought upon them, they have sought none, wand and less intelligent? Having no book and to memory facts within the range neither of their interests nor of their comding.
In the second place let us point out that the orthodox text-book in geography, istory, natural science, or in mathematics is no safeguard of methodical, graded instruction. Though consecutive and logical in its treatment of a subject, not aim at being a treatise on method. It must, in order to sell well, be cheap. the eaply, it must be brief. To be brief, it has to depend for emphasis chiefly lanation manical devices of the printer. It can afford neither repetition, lengthy the trained, nor varied illustration. It presumes a well-informed teacher or a very oribubject pupil. In short, it confines itself to the strictly scientific treatment of arder.
hold Now the logical order is not by any means the order which is always calculated to of chere, attention of the child. There is a pedagogical order, recognized by all good not echild, neglectins, when expedient, the order suggested by the present interests Nise ways, in thecting for the time being the strictly logical sequence. Chilaren are lion the fact. Ine adult sense of the term, logical, and it is a wise teacher that recoghus in accordan her wisdom, she reorganizes from day to day the material of instrucread the canned goods of the text-book maker are through apereeption-masses. And red not merely innocuous but nutritious.

[^7]that the multiplicity of subjects in the school program, by reducing the time ${ }^{\text {and }}$ effort bestowed upon these instruments of education has often misled teachers into minimizing the value of these instruments. Spelling and penmanship are the subjectbin which it is claimed there has been and still is constant danger of retrogression. Arital metic, it is admitted, has been cultivated with assiduity, if not always with practical results commensurate with the energy expended upon it.

The sul)-committees that have had in hand the various subjects of the prograb are unanimous in insisting upon it that the best results in reading, writing, and aritb metic are attainable only through a rich and varied program of studies. Paradox wric as this may first appear, it involves nothing unreasonable. Neither reading, nor wachi ting, nor arithmetic is a process per se. There must be an intellectual content to ed bul and the content should not be circumseribed by cither text-book or tradition, ${ }^{\text {a }}$ ler should be drawn from the whole realm of the chill's activities and, whenever poss ${ }_{[1 m}$
 to the days of rule-of-thumb arithmetic, of counting one at the comma, tw semi-colon, and three at the full-stop.

Economy of effort and effectiveness in the teaching of the three R's are to ${ }^{\text {be }}$
 ciation, or in calculation, or in penmanship. Such exercises are in no sense to be in be couraged. Quite the contrary. But the school will fall far short of efficiency in ${ }^{\text {ad }}$ three R's unless the teacher is watchful to note the errors of pronunciation, spelling clased: expression of the pupil outside as well as inside the special reading and spelling clas ver unless she sees to it that every written exercise in arithmetic or composition or whate ${ }^{\text {te }}$ it may be is a neat and legible effort; unless the studies of the earth and man, are merwis to furnish problems to corroborate and illustrate arithmetical principles likely other to remain abstractions. In brief, to guarantee a creditable output in the forma cilities of reading, writing, and arithmetic, the teacher must correlate these wit igsed various other activities of the school. To quote the "Instructions to Teachers" by the English Board of Education:

[^8]Our program of studies, accordingly, before it can at all fully meet the nef but of the child must be made up of courses of study not separate and self-contained inter-related and coherent, indicating a unified process and a unified subject ma piab The principle of correlation of studies is, in fact, one of the basal principles upon a program and courses must rest. We have placed it first. Certain other importal considerations which should guide the makers of common school programs arif courses and some of which have already been referred to in this report may conver ently be recapitulated here:

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

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

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

1th. That while utility largely determines for us the subjects of the prognamin the topics, sub-topics, illustrations and applications should spring from the proprot needs, interests and environment of the pupils as well as from considerations of pr pective utility.

5 th. That the courses of study should be outlined and detailed in accordance grades: iacreasing capacity and the changing and developing interests of the succeeding bades; that is to say, of the increasing age and experience of the pupil.
${ }^{6}$ th. That in all instruction it should be aimed at to provide the pupil with abun-
${ }^{10}$ proceedtacts with material things and with society, and from his concrete experiences
roced to an interpretation of the material, social and moral order in which he fives.
the 7 th. That it is not prudent that a course of study should comprise only what
throughoge child can fully retain in his memory throughout the school period or even ghout the year.
And ${ }^{8 t h}$. That the program and courses of study should be such, in point of content point of treat, as to ensure not merely the instruction but the education of the child of character, culture and efficiency.
it Adverting to the principle which we have put in the seventh place, we would have
${ }^{\text {ex erceisestood that we in no sense underrate the value either of a good memory or of }}$
pharcises calculated to render the memory efficient. Our purpose is, rather, to em-
clase, the well known fact that much that is taught in the history and the literature
Telae power forgotten in substance or in setting, may accomplish the very best results
gottens. Much thatiate what is worthy in human conduct or important in our social
fay resulut nothing is surer than that, if the method of stady has been sound, there
this is thed to the pupil a greater readiness to deal with similar or allied matters; and
and are the end sought. The facts peculiar to the problem are incidental and acecssory,
Problems more necessary to remember than are the numerical facts in those arithmetic
${ }^{\text {of }}$ the principles the study and solution of which the learner acquires a comprehension principles involved and disposes his mind to mathematical habits.
there ${ }^{\mathrm{e}}$ feel called upon here to dilate upon this principle for two reasons; first, because Ad Prae Well-meaning people who suppose that, since the youthful mind is permitted Judice practised to range over a fairly wide field of knowledge, this is done to the preradiness thoroughness; secondly, because there are teachers who, discouraged by the the wing instruction to the meager dimensions that will ensure a specious facility at Pridenitten or oral examinations. But a pat statement of principle by a pupil is no Phaciple of thoroughness of comprehension. To be thoroughly comprehended, the iny be must be experienced in its application to real conditions. These conditions Tithe manifold and various; and, besides, while they may appear the simplest thing Thd of the material world-an experience familiar especially to the teacher of nature ${ }^{\text {to }}$ teachence. Hence it is that today it is recognized as the soundest procedure for $Y_{\mathrm{ef}}$ fomprehensive and lucid statement of principle. The business of gathering knowet for use in later life is in reality, but a comparatively small part of education egatere are tater life is, who have not progressed beyond the ancient fallacy of made ${ }^{\text {ming }}$ the chief business of the school that of furnishing the memory with readyPractise thowledge. To ensure the retention of so-called "useful knowledge," they o ${ }^{\text {secelure }}$ a ir pupils in conning and repeating individually and simultaneously. Or, Point, they showy output of verbal reproduction of potentially valuable facts and proun reached. Rompel attention to the task long after interest is exhausted and fatigueWhild willen periods of from one to one and a half hours, in the false hope that the retain better what is taught him.

[^9]
## Reading: Grades I, II, III.

The initial effort of the teacher is to awaken an interest in stories hidden in boolding and, through this interest, to command the child's attention to the process of recog words as wholes, of making words out of separatesounds or letters (phonic synthesil) and of finding out new words by phonic analysis.

Children often learn to read quite a little without knowing the letters of the alphs ${ }^{\text {h }}$ bet: they learn whole sentences, or thought-units, from the book, and, incidentaly they perceive word-elements. This fact furnishes the teacher with a hint as to ho to begin; i. e., with whole sentences learned as wholes; or, at least, with words learme as wholes. Most of the words that the child will learn during the first year will 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 readis saving the exercise of primary reading from degenerating into a mere naming of pord in their order without coherence or meaning.

Word-making should, later, accompany this exercise. The teacher may begin analytically, thus: Let her write or print short and regularly spelt words on the bords. pronouncing each word slowly and repeatedly, so as to bring out the component sound For example, the words net, pet, pen, pronounced slowly; then pronounced daty p-e-t, p-e-n. The children should join in this exercise, which may be resorted to dal 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 agso iated with the letters that represent them. The letter thus acquires a meaning.

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

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 read time lesson being devoted to word-analysis and word-making, until, in process of wes the whole gamut of vowels and consonants shall have been practised. Excessive ubsuld this exercise may produce a tendency to stammer. At first, only those words be studied whose spelling perfectly agrees with their pronunciation.

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

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

In analyzing words and in sounding the consonants for word-making, the teacher should be careful to make the sounds of $\mathrm{f}, \mathrm{k}, \mathrm{h}, \mathrm{p}, \mathrm{s}, \mathrm{t}, \mathrm{x}$, ch, sh, th (as in think) mere friction-sounds with no aid or accompaniment from the throat. The gafest wis is for her to get a trained teacher to give her the correct sounds. She should learn, very carefully, the respective counterparts of $\mathrm{f}, \mathrm{k}, \mathrm{p}, \mathrm{s}, \mathrm{t}, \mathrm{ch}$, sh , th (as in think), v. g, b, z, d, j, p (as in measure) and th (as in this), and should produce the lattor the same friction-sounds accompanied by the throat or vocal chords.

Nome names of the letters of the alphabet in their regular order ought to be given at not greatly during the first or second year, it being remembered that these names do unoful; so are st the child in learning new words. The letter-cards with pictures are the letters are song-rimes and rhythmical divisions of the alphabet. Once the names of mind that are known, the teacher can resort to the exereise of spelling, keeping in The learns to spell word anly in order that he may be able to write words.
The literary faculty, it should be remembered, is capable of some development,
Thug the primary grades. The literary element is not wanting in the Second Reader. artully Pleasing concealed. There is humor in Bell the Cat, The Dandelion, The Rainbow; $\theta$ impery in moral in each of the several fables found in this book; a frank and charming ${ }^{9}$, thery in The Wind, page 22, and The Daisies, page 55. In the jingles, pages 1 and ${ }^{4}$ Thesue. are at least melody, rime and rhythm, so captivating to the juvenile ear and leacher lessons are not mere pages to be monotonously spelled out in sunshine and play. proper must in each one strive to catch the sentiment and to awakd droned out. The If per response to her own feelings and, thus, to the feeling and melody of thild the question find nothing in the reader but words, material for spellinges of the piece. Pell that or for dull queries as to Who said so and so? Who did that?, Hor grammar thotionat word? etc., etc., the higher purpos of reading is unknown to hor, and you ional life of the child is left to starve.

## Reading: The Higher Grades.

Englishing the first three or four years, so irregular and perplexing is the spelling of Worgh, the efforts of the child are of necessity mainly directed toward finding out hot be word-naming. Word-naming is, however, not reading; and the pupil must Ti the permitted to leave a passage until he has expressed the thought of it fluently and thes, and the pupe of one talking. As time goes on, the word-naming effort dimin-
ext, and pupil's effort becomes more and more that of uttering the thoughts of of seizing and conveying the emotional element that may inhere.
how Subsequent grades of reading call for no new development in method. Nothing, ver, that has been emphasized in the treatment of the lower-grade reading should , the in the higher grades. The easy and erect posture, the natural poise of the
frank distinct enunciation of consonants, the full and sonorous utterance of vowels,
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 ately of the vowels free from nasality and free from throatiness. Practise the vowels or tha as found in words, and one will find he has three voices, a nasal, a guthroaty, and a clear, bell-like one. (Cultivate this last one.) Next in imHe value the preservation of the time-length of vowels. Ignorance or neglect of the vo the ge vowels is largely responsible for the inaudibleness, the undue rapidity, $N_{\text {eglo }}$ general meanness of school-reading, recitation, and conversation. English poglect tored in speech have each a time-value which can be measured by the watch. $8^{\prime \prime} \mathrm{n}^{\prime}$, eonsonant vowel tone destroys its carrying power and obscures the accom"ter ' ${ }^{\prime}$ ' dow' th' street", or "I w's go'n' dow' th' street," or "H person says "I the ap 'v th, ol' boat," ar "Imost annihilating the street;" or, "He w's empt'ng th' ostrophes.
${ }^{0} \mathrm{o}_{\text {wel }}$ In the reading of poetry, capital opportunity is afforded for giving due value to Horer to susell as for distinct utterance of consonantal sounds and syllables. The ation of suain the voice at the end of a line or throughout the line is identical with the of the long vowels. 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."
and contemptible. His rate of reading is, consequently, lit to rapid; and the general effect is wretched. No wonder such pupils with such teaching never get to enjoy poetry.

If a pupil be practised to note the identity in sound and the great difference is length of the vowels in the following pairs, the lesson will come home to him: taste, tame; pot, pod; note, old; not, loll; yet, yell; pert, herd; er, ell; it, ill; week, ring; folk fold. Worth while will it be, too, to practise him on words containing very shorth unaccented yowels; e. r., notice, spirit, immense, mountain, orange, obey, wind ${ }^{2}$ wi tomorrow, pudding, goung. In caroless speech all of these vowels are sounded alibo obscure, the effect on the critical ear being that of illiteracy and vulgarity. Then there is the frequently mispronounced vowel in the first syllable of carriage, marriage, and the last syllable of prepare; in pass, glass, path, which should be the same as in mar is in food, foolish, which should be the same as in too; in again, which in conversation ${ }^{\text {th }}$ often sounded like again; in mas, which too of ten sounds like muz; in get, forget, whice are corrupted into git, feryit,; in can go, often sounded kin go; scared, pronounc skeerd.

Teachers who consider themselves stickiers for pronunciation often slight thest familiar and semingly easy words, devoting their attention solely to the correct phand of the accent of unfamiliar words. Far better to begin by cultivating an car for onot values, accurate enunciation of consonants, aud well-placed, sonorous speech. (wily a speaker has learned to read slowly, to listen to his own voice, to criticize narro own speech, he will not fail of effectiveness in improving his pupils and in develop in them an ambition to excel in purity of utterance. Besides, nothing will do that to heighten the self-respect of teacher or pupil than will the consciousness tha persol utterance is correct and refined. It is a most important fact that when a young perged leaves the kindly and uncritical environment of his native village to go among stran upol the social position accorded him depends more upon his speech and manners than the academic or technical seholarship he may possess.

There are thus two main reasons why reading aloud holds so important a place apd the school program; viz., its correcting and refining influence upon the speech, the its stimulus to emotional expression. The latter is even more important than pip former. The reading period is the one, par excellence, where the tacher and $p_{d}$ py are oftenest lifted into the realm of emotion; where the purer passions are stirred ${ }^{\text {es }}$ y. tales of kindness, heroism, sacrifice, and suffering, or by the genial touch of pid ${ }^{0} \mathrm{~m}^{n_{1}}$ The human element in literature being the most powerful in its appeal to $\mathrm{ch}^{\mathrm{c}}$ as to older persons, will require less effort to interpret than the nature element. however, a large part of our literature, both prose and poetry, is concernd with the inte pretation of nature in its cmotional aspects, or, rather, as awaking emotion in mans there is an additional incentive to the teacher to stimulate in children an emon attitude towards nature, towards sky and sea, mountain and stream, sun, mon ${ }^{\text {an }}$, ${ }^{\text {be }}$ stars, night and day, plant and animal life, color, form and sound in nature. nature lesson, the lesson in plant and animal life, in elementary astronomy or phy geography, the lesson in drawing, --each affords opportunity for this. And this when factor in nature-teaching should never be forgotten or neglected; so that, whert school $\boldsymbol{r}$ piece of natural description constitutes the reading-lesson, it may be infor ingly and profitably dealt with as picturing aspects of nature by us only imp tac observed, and as throlbing with a feelink native to all humankind. Let the ceal who has not yet developed this feeling for nature be not discouraged. Increased deficie ance with nature and with poetic interpretation of nature will supply the de will
 a miracle with the spiritual vision. For this purpose the most familar pie likely ${ }^{0}$ prove the most effective, even as by reason of this very familiarity they are in Tean ${ }^{(n)}$ be the ones least regarded. The prescribed readers have excellent examples, in son's "Brook" and Bryant's "Lines to a Waterfowl."

Once a teacher has come to take delight in emotional expression and well English, she will easily be tempted to follow the practice of all judicious teachers ing aloul from time to time to her pupils. This will occur not only on the o of the regular reading-lesson, where it may be desirable for the teacher to set the and sentiment of the prescribed passage, but at other times, and, indeed, whe ${ }^{\text {are }}$ rb she may have come across something s:itable or entertaining to the pupils. further she can admit her pupils into her own intellectual life, the more pleasing ${ }^{\text {sin }}$, ${ }^{\text {s }}$ purposeful the relations extablished in school. The practice of reading to pupilshas ${ }^{\text {as }}$ vel economic value, too, in its presenting to the latter material which they may wor and reproduce either grally or in writing!

Set Lastly, let the teacher stimulate among her pupils all the private reading possible.
recommend pupils reading. Aid them in their choice, letting interest be the chief ground of bommendation. Question them as to what they are reading, what book they like the "hild the book deals with, who the characters, ete Do not insist too much upon be reads is not reang "to improve his mind." Be content that he reads, so long as what not unwholesome.

## ENGLISH IN THE COMMON SCHOOL GRADES.

the It is with somewhat of diffidence that we address the teachers of Nova Scotia on Per cubject of "English in the Common School grades," because we believe that ninety of cent of the success depends on the intelligent industry and influential personnel yet a listless one An energetic instructor is able to do better with hardly any plan ob ow patient with any of the little ones, and she will se the ther be ever so energetic ${ }^{\text {to }}$ an ${ }^{\text {a }}$ inhrinking reserve, that, like a wall will be hard to scale; embryonic scholars tents instructor. She needs a patience of an active nature, that a wall most baffling
Way to in the scorner's chair, but a kind that reaches out in that encouraging loving to which little folks quickly respond.
Putting Although we address you teachers diffidently, we can say that we are not Treful thofore you anything carelessly thought out, we are giving you the result of Wheationists. the on our part and, more important, the maturest opinions of advanced Berform with all that, you must not expect to hear of, or afterwards yourselves to Ouring thiracles; for we must all admit that our English course can only aim at see ability to speak, read and write plain English with moderate fluency, innce and accuracy.
Pre Before presenting to you, therefore, the curriculum on English, we think some in the advisory nature may not be out of place here, as to the "how" and in the teaching of English to very young pupils. Therefore we would say:-
Let the children be encouraged to talk individually; collective answering and will simply afford the timid beginner a chance to run to cover under the
reply, and will thus be a hindrance to genuine thought. and will thus be a hindrance
Remember that a talkative child. untrained, is the unpopular brat whose questions
bo mearass; but the talkative child, intelligently trained, is the one whose ques-
of thay of delighted to answer. There is no doubt that the absence of free expression
of our common schools accentuates that reserve aforementioned. Repression
speech means repression of clear thinking.
To remedy this and to bring out the latent speech power in the individual pupil,
should have every aid and instruction possible. They should be confronted ied thestructions to the last possible detail, either in the register or in circulars details, of all the branches dealt with in every grade, together with clear and hich the the order of procedure. They should be supplied with proper books mought iney can obtain the proper subjects and stories, and the school library should ${ }^{0}$ Hot cases cans a part of the daily instruction and made a real force. Teachers in pay for know what be left to themselves to supply the needed aids. They sometimes For the what to procure nor where to procure, and hally they cannot afford to dent by the usual way of a school concert. Lists suitable to every grade could to every school. If the journals from time to time publish such, not half the to thee them. This is not the fault perhaps of the Journal. But if a list is proen, prices and publishing houses plainly stated, they should have no excuse e, are foring them, which a vigilant inspector cannot argue aside. Libraries, it 4sed? orming all over our provinces, and this is a most encouraging sign; but are forage this ide if used, are the readers controlled and guided by the teacher? To enLibris idea, the introduction of silent reading for a part of the school desk work
er recommooks is recommended especially in Miscellaneous Schools; and it is the readers on what they have read at school and later at home.

As to suitable reference books for teachers of the lower grades on the subject of English, we would recommend "The Mother Tongue" Books 1 and II by Arnold and Kittredge" Published by Ginn and Company., Boston Mass. Book I is splendidy adapted for the first three grades on the lines of the curriculum presented here.

Another good work is "Steps in English" Books One and Two, by Morrow Mct ${ }^{\text {Lesp }}$ and Blaisdell. Published by the American Book Company, N. Y., prices between ${ }^{\text {a }}$ and 50 c . per volume.

Now as regards the introduction of the text book in Grammar, we will quin is from "Suggestions for the Consideration of Teachers of the Elementary Schools England," for 1905. Here we read:-
"Until a child has learnt to think consecutively and to express his thoughts oleady he has no basis for that more formal study of language which is called Grammar. is impossible for a child to learn a language through its Grammar, and this is mod true of English than of most languages, for in English the meaning is for the gaf part determined by the relation of words to each other in the sentence, not by change in their forms. Not that grammatical distinctions are altogether beyond comprehension of scholars in the lower classes, or that they may not be employed some advantage even there by a skilful teacher. But the use of grammatical all distracts the attention of teachers, and pupils alike from what at this stage is all portant, viz, practice in the "use" of good English, and the comparatively eany
meahanical character of a grammar lesson is a temptation to the weaker teaches.
"The aim of Grammar is to make evident the conditions of clear expression; this end can never be reached by centering on the word. The attention must alw be fixed upon the word, the phrase, or the clause, not in itself, but as it occurs in sentence; in other words, it is the function of the word, the phrase, or the clause, is grammatically important. When, therefore, a scholar uses ambiguous expres deas in the composition lesson the fact should be pointed out and the conditions expression should be explained."

Further on, analysis is encouraged in connection with the reading lessons in then words:-
"Analysis in fact supplies a new set of formule under which the meaning of b language (and especially of the language of the higher poetry) can be concisely whes cussed." "The minuti of Parsing," it states, "should be completely omitted. the relation of a chief word, or of a phrase, or of a whole clause, to the rest of the sent has once been established, it is unnecessary to proceed further "

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

Speech conforms to natural laws which, when tabulated, comprise a They are the mere signs of proper thought expressions and are noted as the combin properties of apeech. The laws of environment and necessity are the powerful of speech; hence we must begin at the bottom and work upward with the gropil generations, guide and instruct them on the basis of natural grammatical laws, b cannot dictate or command them to speak by rules in accordance with any laws. endlletters such as "tion", "ment." "ing", e," " $y$ ", and " $s$." Pupils who are al to develop a faculty for rapid speaking abound in these errors. is also wanting with many, due to lack of training and timidity. Constant praction also the remedy here. I was informed a few weeks ago by one of our most experian kindergarten teachers that she had accomplished excellent results in the clear enur
lion of end syllables and letters by devoting a special time every week to this one feature
ponibers aiso should be instructed, in meeting with a dialect, to compromise as far as uny want ofause this is due to lack of some muscular throat development and not to Want of intelligence.

To The instructions of the Education Department should be strictly carried out as memorizing of prose and poetical selections.
of Poetry reveals the emotional side of life. In many cases it is the great vehicle mandional and imaginative expression. There is a something in our spiritual or When it will natures that responds immediately to the magic sound of metre and rhythm poetic recitation on the ground that the child cannot or thore ever forgo exercises 4t me very "not understanding" often means an or does not understand the added attraction. Understanding will come later and mystery and therefore mory enriched with a store of beautiful thoughts.

## LANGUAGE WORK.

## Grade I

$\mathrm{T}_{\text {mon }} \mathrm{Ta}_{\mathrm{al}} \mathrm{k}_{8}$ on familiar objects between Teacher and Pupil. Picture stories orally. molng of alphabetical sounds by imitation and the introduction of the corresponding Onunciatio special emphasis on such letters as $b, d, f, q, k$, th and $v$. Practice in the Thof speech on syllables. Forming sentences from words in Reading lessons. Freealables but a cleouraged in all oral lessons by daily practice, not only on accented Prades. Reader enunciation of the unaccented syllables. This to be followed in Reader No. I. Spelling, oral and written.

## Grade II.

Pieture stories orally. Faulty pronunciation corrected by practice in free exOten in. Sentences to be carefully selected containing several examples of sounds of daily dinctly or improperly pronounced. Teacher to practice reserved and timid of re the th in free expression, accustoming them to the sound of their own voices unfage class, before this habit of shrinking reserve becomes fixed. Introduction of repetitiar subjects in a series of talks prepared by the teacher, who shall insist on Poetry suitable to the age of pupils. Reader No. II. Spelling, oral and written.

## GRADE III.

Poupliar obiure stories more complex than in previous Grades. Sentences formed about houng jects introducing the noun-not parsing-distinguish common and proof ind The use of the period and interrogation point. The same daily correceven winct and improper pronunciation. Memorizing of a few passages of When not fully understood-its mystery often lending an added charm.

## GRADE IV.

## GRADE V.

Oral and written reproductions of narratives and descriptions, as, events of vious day, a holiday, a party or a concert. Nature stories of birds and anmals. ries filled in from outline prepared by teacher. Letters and bills. Noun, verb, ject, predicate, adverb and adjective pointed out, their uses explained simply as occur in writien work or in reading lessons,-parsing being thus a logical assistant ${ }^{\text {m }}$ the understanding of the uses of the various parts of speech. Comma and quotation marks. Written work examined and corrected by the pupils under the supervision ${ }^{\text {n }}$ the Teacher. As an aid to correcting of pronunciation and expression, the introductiod of the reader in the hands of one pupil, the rest with books turned down; after ind reading of each pupil, mistakes to be corrected by the listening pupils. Memorizn selections from prose and poetry. Select Reading as mentioned above; Robin ${ }^{\text {pod }}$ Crusoe, selections from Thompson-Seton. Reader Grade V. Spellings, oral written.

## GRADE VI.

Model narrations and descriptions reproduced and imitated in original work ${ }^{\text {and }}$ letters. Oral and written compositions based on outlines made by the pupils wad the direction of the teacher. Nature composition on plants. Drill on the above gear corrected. Rules for punctuation reviewed. Analysis and synthesis of simplu dide tences. Enlargements and extensions explained. Phrases and clauses stlo Transitive and intransitive verbs pointed out and their difference explained, follibh by a selection of the stme from Reader and suitable text as "Lessons on Englib Reader No. VI. Spelling, oral and written.

Silent reading from appropriate Library books-Alcott: Little Womer. pyle Some Merry Adventures of Robin Hood. Introduction of the Dictionary for referen Memorizing passages of prose and poetry. Recitation of poetical passages. and natural expression and manner encouraged. Declamation and posturing diso aged.

## GRADE VII.

Written, followed by oral, descriptions. Narrations"and characterizations. ters based on reading and experience. Written invitations and business appliciat in in Special emphasis on correction of same. Nature composition on minerals. and analysis of simple sentences. Application of Rules of Syntax. Review tuation. Text book in Grammar introduced to aid review. Reader No. VIl. ling, oral and written. Silent reading from books in Library.- Haw thorne's Grap $^{\text {an }}$ father's Chair; Diekens' Christmas Carol. Dictionary for reference encoltrb Memorizing of selected passages in prose and poetry.

## GRADE VIII.

Written and oral descriptions, narrations, characterizations ${ }^{*}$ and exposit $p_{p r y}$ Written work to be examined by teacher and rewritten by pupil until correct. ${ }^{\text {and }}$ the digm of verb. Parsing and analysis of complex sentences. Parsing of words ${ }^{95}$ Ger occur in sentences-simply showing their relation to other words in sentence. eral review of parts of speech and punctuation and the encouragement of the book for reference and practice of examples. Practice in writing business form Sileut reading from Library books and the loaning of the same for home reading. ings to be encouraged by leading questions on the same by teacher on an averag once a week, from books such as Stevenson's Treasure Island, Irving's Tales of a tex ${ }^{\text {th }}$ eller. Reader No. VIII. Spelling, oral and written, or from some prescribed

The predominance of written or practice work as submitted by the Sub- $\mathrm{Sh}^{\mathrm{obl}}$ mittce in this plan may satisfy to some extent that general and true complaint, with boys leave the Common and High Schools indifferent or poor writers. Writing is most a matter of practice. We do not claim that anything very novel is reconmen here, or anything not already mentioned by the Education Department, but tha have recommended the putting forth of more strenuous efforts to see that all subj in the course aro placed prominently before the eyes of the teacher, so that none
$h_{\text {ave }}$
constant excuse for ignormee of the same. That the practice of tongue and pen be as library be time shall permit, and always under the guidance of the teacher; that the And we believe a living foree, not left to the whim or inclination of the young pupil.
leachers. will jut that such a course as outlined here, vigorously carried out by energetic
this impors. will justify itself by a general improvement anong our Nova Scotia pupils in mportant part of our school curriculum.

W. A. CREELMAN,

Chairman sub-Committee.

Collows:- The Sub-Committee on Drawing and Constructive Exercises, begs to report as
The aims of the school course in drawing are, briefly:-
(a) $T_{0}$ 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.
poets. The fashioning of artists is no more the function of the school than is the making of
Whe of But failure in efficiency in the school that does nothing to enlarge the child's
in the seheauty of form, color, and composition, is of the same kind as would result
I literary formande no effort to develop the child's sense of beauty in virtuous conduct, form and substance, or in music.
have hiere are considerations of pure uility, also. As an adult, the child will later cho his work to do in the real world. It is, indeed, possible that the vocation he certocation not call upon him for skill in drawing; but the chances are that either or coin that or his avocations will do so; and, whether or no, it is almost absolutely
color will at important junctures the ability to express himself through line, form, will prove of considerable value to him.
${ }^{\text {foch Thine }}$ school has, it must be acknowledged, a highly important duty in respect of to devel drawing; for neither the pictorial, decorative, or constructive power is likely dere elope in the child without the stimulus and the instruction of the school. True,
incerative be the stimulus and assistance of a home in which forms of graphic and
to 10 and constructive art are practised; but, as a rule, the home, in its efforts at
of profit and exterior decoration, furnishing, dress, and capacity for enjoyment stands
comin economically and esthetically by the modest but wil.tirected efforts

${ }^{4 i z e}$ Prom the first grades of the school it will be convenient for the teacher to recog(1) three forms of activity in drawing:

Pictorial drawing,
Decorative drawing and designing,
(3)

Constructive work,
rough the tioned growing more and more conspicuous in utility as the child advances To mean grades. Under pictorial drawing come all such exercises as are intended pict prising of free expression for the child's imaginative and reproductive powers, he re-st idy. The lessons in the reader, in geography, history and nature, prompt e hatur depict scene, incident, weapons, buildings, costumes, flowers, plants, anirned to accoures of the earth; and the interest of the moment may profitably account by having the pupils draw from memory, imagination, or from
the object that which has just passed under view. This form of drawing, too, associate itself with the environment and activities of the child; his games, sports, and recres tions,--playing ball, snowballing, fishing,--the occupations of the home, of the farth forest, mine and sea, all of which furnish subjects susceptible of pictorial treatment varying from the amazingly crude efforts of the infant class, to the thoughtful drawing of the upper grades.

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

Under constructive come the paper-cutting and folding, card-cutting, elay-modeling of the earlier grades, developing into the more purely mathematical drawing and ${ }^{000^{\circ}}$ struction-work of the upper four grades. It comprises plotting to scale, the solutiod of problems in constructive geometry, the drawing of plans of the school-house $\boldsymbol{a}^{\text {a }}$ d school-district; plans and elevations of objects convenient, to be worked out in cart paper, or wood; the drawing of maps, designing of patterns, pattern-cutting in pappt in association with the sewing lessons for girls.

In no school should it be permitted to neglect exercises in the construction of of jects appropriate to the interests and the ability of the pupil. To express form in termith tion comprises not merely a know contribute more to his understanding that in ilatit them.

It is important for teachers to recognize that children's early efforts in dranim are excessively crude. Not only is the eye unpractised in determination of form proportion, but the hand of the child is at first a mere fist, capable only of rudimention whole-arm movements. Accuracy, neatness, correct proportion are out of the questidio and the teacher must be content with maintaining the native interest of the child ad depicting things, utilizing this interest to encourage him to observe with more more accuracy. During this stage the pointed pencil is a discouraging medium, brush or the blunt erayons-preferably colored ones-offering a much more direct 9 ib effective medium of expression. Later, after the child has acquired some readines mass-drawing, the pencil becomes useful as a means of acquiring exactness and accurrd iv The flat color-washes and the colored crayons, moreover, permit experiment and ${ }^{\text {in }}$ struction in colors, tones, and their relations.

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

It remaing for us ind to the present course-additions, not to thare and extent of the additions we prop but to the definiteness of these requirements and the rements of the various grades for the teacher's convenience. First, we would detail thustrative material sug ${ }^{\text {each }}$ of the grades, or for each group of two grades. To many teachers the practices recoll mended for the earlier grades-stick-laying, clay-modeling, paper folding and cuttin are mere names, no opportunity having ever been enjoyed of seeing these occupal practised. The Syllabus for the elementary schools of New York State devotes pages (135 to 137) to a description of the materials and their manipulation in the frim four years of school, and three pages to a description of appropriate manual card, wood and iron, for the four higher grades; also, a page of pillustrations of work, (see page 139). We would recommend similar treatment in our printed courstil and would add a word to those teachers that find the time-table already pretty to the effect of procuring the execution of manual tasks at the pupil's home.

Constructive drawing, especially of the objects which are to be worked out in feration should be illustrated by a few diagrans showing the nature of plan and Nefation drawings, simple projecions, and the uses of conventional lines; (compare to be syllabus, pp. 123, $126,128,130$ ); and exercises in constructive drawing ought in the huggested, suitable to progressive stages of child life. Where sewing is taught Progressively grades, it may be made a sufficient manual exercise for girls, as outlined (vely in the English "Suggestions," pages 136-7.
In pictorial drawing, some explanation of "mass" drawing, of "Aat" colors and or aniline their uses in the earlier grades, of the use of the brush and the making of ink through thashes, of the introduction and development of principles of perspective to that the drawing of appropriate objects, should be given, unless, indeed, it is seen of add a page or two is provided with a proper instruction book. It might be beneficial comparise or two of typical primary and intermediate grade drawings, as a standard ch ed course in piet as inustrating the use of pencil, brush and crayon. The best doGrade t's public schools, which divides the work examined by us, is that of the Massaoupation each schedule of work proceeding largely in the order of the seasons, the Uper ons, their flowers, fruits, birds, animals, and varying landscape.
Decorative drawing and simple designing ought to form a separate and additional leachery of exercise in the upper four grades, and, umless it is intended to have the nattoin sugged with a teacher's hand book in drawing, the printed course should and soested exercises in decoration a
printed conclusion we have to say that everything reasonable should be done in the matuction course to provide the untrained teacher with self-helps. It is to her lack of construather than to disinclination that we ascribe the present neglect of drawing eyed by lett; and there are teachers in every district who need only a few hints to master its execution

## Geogiraliy.

h the first three grades the term geography need not be employed. During that With' the wever, the teacher should endeavor to bring the pupil into sensible contact cotailed most conspicuous phenomena of earth, sky, sea, plants, animals, and mankind, thise. Theatment of many of which phenomena is indicated in the Nature-Study mane ementary conse-experiences obtained by the child in these contacts with nature; Whtive an ind conceptions of position, form, size; of physical corces and changes; of Mediution; of color and social element; of soil and or the prope, forest, constith of orm th interpretation of what he la, hill, pond, brook, sook and elsewhenstitute a toding apperceiving masses into he later will read in text-book and elsewhere. They In seek to incorporate themselves.
Meriences her words, cluring the first three years, the teacher's task is to provide cx${ }^{\text {a }}$ etive exp for the child's mind to work upon. No special effort need be made to relate craplin upon thes to one another. It is enough that the child's sense-organs be kept reade ing things simplest earth phenomena, and that from tine to time his power of We by the teacher's recallig be exercised. This first step in this latter cxercise is oult as by heacher's recalling nature-experiences that have bupils may then shared by the pupils trat of whi her. The pupils may then be induced to join in the description, the net ned obscure be the sharpening of the mental image which otherwise might have e or become obliterated.
This This power of re-presenting mental images is a mental function of the highest ${ }^{\text {of }}$ Deithere. It is one of the forms of memory and is the basis of inagination. Without graphy nor history has mental content: they degenerate into a memorizing bete, In the 6e, accordingly year, some attempt may be made to relate earth-phenomena; and this bed by thly, the study of geography proper begins. Not that a text-book is to the pupil. That is neither necessary nor desirable. What is intended is 8
of, first, as typical of hills, brooks, ete., in general, and, secomdly, as related in position direction, size, and causal function. The relation between brook and brooklet or dith is to be thought of as typical of rivers and their tributaries. So of lakes and swamp and basins; of snow, rain, the clouds that discharge them; the slopes that shed thell the ditches and brooks that receive them.

The study of cansal relations ought not to be carried too far, especially in the realm of natural phenomena. Much more interesting to the child, and, consequently, more educative, is the observation of human activities in relation to the earth and sear aries their products. Home geography, indeed, may well begin with a view of the industries of the neighborhood. Everywhere in Nova Scotia either farming or gardening is practised. In it the teacher has available a type of human activity occasioned by the needs of mankind. Other industries are practised in the distriet, all of them directed to the end of supplying man's wants. Mankind must work, or perish. All men women do not pursue the same calling. Diversity of industry neccessitates excharg of products-trade or commerce. A detailed survey of the industrial activities of ereb the humblest school-section will provide matcrial for many thought-provoking lesso of surpassing interest to children-lessons to which each child can contribute. litule measure of the value will accrue, in fact, from this very participation of the child in the radiant, unrestrained conversation upon the farming, dairying, gardening, or charding, cider and vinegar-making, canning, preserving, fishing, curing, boat-huiddhen mining, quarrying, lumbering, sawing, wood-working, tanning, shoe-making. there are the transportation facilities by road, river, sail, sea; the means of conntimit cation by post, telegraph, telephone; the churches, schools, societies, the country-tom or nearest market-town and its relation to the surrounding country.

The mention of lowns, etc., that lie immediately beyond the borizon suggr in still another topic of the fourth year-the outer world and our relations to it, in $\mathrm{in}^{d r}$ race, language, custom. The importance of such a method of approach as thived $\mathfrak{a}^{\sharp}$ cated in the work of the first three grades will now be manifest. We have arrived ${ }^{\text {t }}$ be point where we must deal with places, people, and processes that lie for the most pated yond the vision and the actual experience of the child. Facts are to be present how facts relating to material things; not merely statements of fact, but images.

The presentation of distant places, people, institutions, industries calls for men $n^{n^{t a l}}$ pictures composed of simple elements-just such elements as those treated in the prion ceding grades. Through contact and experience and through the exercise of inaging ${ }^{\text {atid }}$ ol and recall, the child has already obtained a body of geographical notions capab ${ }^{2} 0$ combining to produce fairly definite and completemental pictures of other places ${ }^{\text {p }}$ ol unlike ours and even of far distant lands and peoples. To illustrate, the stud British Columbia calls for the visualizing of a large and varied panorana of lofty ${ }^{n 0}{ }^{\text {n }}$ ped tains, deep valleys, swift-flowing rivers; of forested slopes, and foot-hills overtop ${ }^{D^{2}}$ by bare, rocky summits; of lumber and mining camps; of lakes, of valley and upay farms, ranches, orchards; of widely seattered towns and villages; of sea coast, of $0^{11}$ harbors, promontories and islands; of industries and activities similar to those Ead own province; of people of our own race, language, customs and sentiments. nen $^{\text {na }}$ view of this varied scene is capable of being constructed by the child out of fundam of bot ideas obtained either at first-hand, or throuch pictures, or through the medium of when illumined by the imagination of the teacher.

No amount of text-book reading can be depended upon to effect this result. perb liance upon that agency is disappointing. From the book a child will easily en learn to say, for example, that lumbering is one of the chief industries of a certail Probably try, without his ever once considering what is implied by that statement. arm $^{\text {art }}$ he has seen logs floated down stream to the mill, or has witnessed some other pas sed the oparation of lumbering. But that does not ensure his associating what he the the the with what is implied in the brief text-book statement. It is necessary that the of whe shall have bidden him inquire into the inception, the purpose, and the outcome of on he has seen, and in this way to put him in possession of the fundamental notiactise of which to mentally picture the industry of lumbering and the people who pract ${ }^{(t)}$ whether in Norway, Austria, or Quebec.

The discarded method of first teaching definitions of lake, river, island, and procecding to the committing of text-book statements bears no fruit in the po wrid to mental imaging or in genuine interest of an intelligent kind. In permitting the chapit recite what he reads without giving mental content to it is to establish mental
${ }^{4}$ fachatal to intellectual growth as to true knowledge-getting. It is the office of good
according to practise the child in associating word-symbols with the things signified;
lext-bingly, it is imperative that the child should bring to the consideration of the
thaphical and of distant lands and peoples a mind stored with clear and definite geog-
of earth and man manifested in his own environment.
In In the geography of the upper four grades the general method will remain the same.
muerable are the teaching-devices to be resorted to; but, as the aim remains the
man's rela grade four,-that of extending the pupils' knowledge of the earth and of
macher can tons to it as an industrial and social factor,-it is only in details that the can vary the procedure.
the One more topic should be introduced in the fourth grade, or even carlier, viz., child's. Here, as elsewhere, the teacher must proceed through the avenues of the
tround experiences and evolve the idea of the map as a pictorial representation of the
map-man which we stand. The floor of the schoolroom affords a first problem in
thd the frong then the location, Gupon this plan, of the platform, the teacher's desk, tends to seats. Accurate drawing to scale ought not to be required at first, as paths, ${ }^{2}$ to complicate the problem. Next, the school grounds, the trees, fences, Wiy, with ites, may form material for a new and larger map. Later, the public highfind its branchings, houses, buildings. The brook, the pond, the groves or forest, y well represented there need bo So long as proportionate areas and distances are
Thon of the cosented, there need be no worry about drawing to scale. Direction, in
tented the floor. Tompass, is pertinent here. The first maps may be drawn with chalk
shed by blocks, trees may be modeled in sand in a shallow box, buildings being repreto the the railroad by two wires-the result being an approach to reality which appearchild's interest.
Scotia $^{\text {From }}$ this point to the regular wall-map is an easy step; and the map of Nova directiony be presented in its simpler implications of land, water, coastline, distances, Whed by localities, towns, industries, before the end of the fourth year. No point is he county proceeding from the map of the school district to the map of the county. he childy is a political, pot a geographical unit, and consequently means nothing to slob is to s, coming back later to the Province. Of course, the earliest study of the ocean, islands, seas, gulfs, and a few great countries and cities.
The the introduction of the text-book in the sixth grade necessitates care on the part huld ${ }^{\text {eacher }}$ to prevent geography from becoming a merely literary study. The text und or the relied on chiefly to provide statements of fact for interpretation by the pupil or ort being stimulus of the question, suggestion, or interpretation of the teacher, special tof teing made to set forth the facts in their causal or other relations to one another cifies in disconng within the experience of the pupil. The text-book may, for example, twes, and asconneeted fashion the facts of the size, surface, soil, climate, mountains, any or all of of Russia, without at all indicating the necessary connection betivers, statements a picture of Russia as a large country of plains, forests, slow-fowing those farms, grain-ficlds, villages and towns of a climate and of seasons much ling tod the the same latitudes, villages America, and, therefore with much the same much like mare same agricultural operations and industries; with villages and town satation解t; With and distributing-centers, as manufacturing centers and as seats of serverng it a ${ }^{\text {a }}$ ith rivers and lakes frozen in winter and closed to navigation, as with us; tomb appuern seaboard shut in by ice in winter like our own Northumberland Strait; ering, and mingaged chiefly in tilling the soil, raising cattle and horses, dairying, eals like our own.
 dober in text; and it serves as a type of the mental imagery to be sought by the colds be studying a country. Current events as recorded in the newspaper should dealions. Min, and given their proper setting in place, politics, social or industrial advantages of problems will continually present themselves, such as, for instance,
of a community, either of which problems is best understood when paralleled by the study of similar problems in Nova Scotia. Thus, Halifax, Sydney, Springhill, chace Bay and Yarmouth are illustrative of the conditions presented in the general problems ${ }^{0}$ location and rapid growth.

Then there are the numerous physiographic problems which, out of place in the lower grades except in their most obvious aspects, are capable of being understod 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 astro ${ }^{\mathrm{T}^{-}}$ omical ${ }_{3}$ phenomena. Further, the events of Canadian and British history, whose geo graphical setting may at times properly absorb the periods set apart for geograp pical 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 phys cal forces, of trade, of society and government, of the races of mankind, of the worles events, it is fitting that the interpretation of home and foreign lands, of distant peop the should be conducted with a view to developing in the pupils a human interest in in people of strange lands and alien races. The effort to appreciate what is worthy pople men of other race and language and to promote a human sympathy between our ${ }^{e 6}{ }^{8}{ }^{86}$ and those of other lands can hardly fail to bear fruit in temperance and tolerancian. home, in a more intelligent Canadian patriotism, and in a saner and safer Imperia 1 as ${ }^{8,}$ The annual recurrence of the festivals of July the First, Empire and Victoria will afford in every grade occasion for Empire lessons, geographical and historich appropriate to the age and intelligence of the pupils.
(Note on school Excursions. Plan beforehand and inform the children you want them particularly to make observation upon. Don't overlook the fact tha winter has much to teach us, and that the same place may well be visited in each in $\mathrm{c}^{\mathrm{d}}$ 堅 While on the excursion, halt the class now and then and have them consider, in schor room fashion, anything worthy of observation or discussion. On the return to sa or on the following day, review the event and the things seen and discussed. miscellaneous school, the teacher might utilize as assistants in conducting the youlb children older pupils or outsiders.)

## Geography: Grades I, II, III.

Talks with pupils about the seasons as they pass, with no attempt to explain the older people's occupations appropriate to each; the summer and winter pastimp
 light; the high June sun at noon, and the long day; the trees, their changes; day by day; color changes in forrest, field, meadow, and sky, as days and seas adsi pass; changed condition of ground, brook, pond, plants; our summer and winter to and housing and feeding of farm animals, and storing of winter supplies for nan and ir ${ }^{r^{l 5}}$ mal; the arrival and the departure of birds; preparation for winter made by bees, bears, caterpillars and other insects. artizan must buy. The things he sells.

The mill, the quarry, the mine, the coke-oven, the factory, the blacksmith's sh ${ }^{\text {bof }}$ the the fishing-boat, and the catching and curing of fish, the shoemaker, the tanner, post-office, the church, the school, -all and each will afford material for obser is ${ }^{10}$ and explanation, the pupil taking the initiative in the conversation. The aim dever provide contacts and sense-experiences, to quicken a habit of inquiry and to language.

Visits should be made after school or at other times to some convenient hilltop the brook, brooklets, ditches, to a valley, a forest, river, harbor, beach, or whic to $\operatorname{ma}^{a^{10}}$ of these may be accessible, especial attention being paid to these as serviceable to

## Geography: Grade iv.

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

Earth forms as related to one another; hill and valley; pond, lake, swamp, brook,
the the surface contour determining each; soil and its formation by various agencies;
Watershed of running water, of frost, of melting snow; mountain and valley; slope and Watershed; (in maritime districts, coast, beach, bay, harbor, cape).
building Man's direction of natural forces: draining swamps, clearing and tilling land seasing bridges, breakwaters, mill-dams for water power; navigating lakes, rivers, dictions, ete. steam and other agencies, guided by light-houses, signals, weather-pre-
to deepen of the foregoing the aim is to quicken the pupil's power of observation and
Insight.
Plans of schoolroom and grounds; plan or map of district showing roads and build-
paper or bok, pond, forest, etc. The sand-map as counterpart of the plan drawn on or blackboard.
in The world that lies beyond our horizon: Nova Scotia; ideas of distance expressed
tion lof theriods by rail, on foot, etc. Map of Nova Scotia explained as the continua-
Vur's the plan of the district already made. Ideas of direction derived from the
on the nosition; the four points of the compass and their application to the map hung
Found in inth wall or laid on the floor with the top to the north. Surface forms not
Mature and neighborhood comprehended through the medium of miniature forms in
chief tow on the sand-map. The surface and coastal features of Nova Scotia, its
mulicatios and the means of access to them, its rivers, mountains, means of com-
may be omitt transportation. (County lines and names mean little to children and
"prehended). The province, on the contrary, as a geographical unit will easily be
${ }^{0}$ Theaption Thorld as a whole, from glove and hemispheres, merely to permit the general of its form, its great land and water surfaces and our position thereon.

Geography: Grade v.
Datural, North America as a land form on the earth's surface. Its larger features, political, climatic; its countries, cities, bays, gulfs, rivers, mountains, islands.
Thlan The ${ }^{\text {Theminion of }}$ Canada in slight-detail; its greatest river, mountain range, ${ }^{4} d_{d y} y_{8}$, its provinces, chief cities, chief routes of travel and trade, distances measured journeys, products of soil, forest, sea, mine.
${ }^{4} \mathrm{ution}^{\text {Nova }} \mathrm{S}$. Scotia in considerable detail, not only its natural features but these in re${ }^{e v} \mathrm{ents}_{s}$ in its industries, its population, the location of its chief towns and to a few leading in its history. Drawing of local maps, maps of Nova Scotia and Canada.
Way and night a turning of the globe or carth towards the never-moving sun;
diy journey coldness as determined by sun and winds; the overhead sun and its long
lowate and in summer, the low noon-sun in winter and the short day, as alfecting
and high vegetation. The polar and the equatorial regions contrasted, with their
The equator on map and globe; parallels north and south.

## Geography: Grade VI.

$\mathrm{moun}_{\text {ontain }}$ The continents, oceans; European countries and their capitals, their great rivers, ind ${ }^{\text {ches as arious countries. Approximate latitudes of various countries, with }}$ Con $_{\text {ceivada, }}^{\text {Completed, with the aid of the text-book, the purpose having been to }}$
provive of our country not as a place on a map divided into colored portions called The airly unceived in terms of miles, of days' journeys, and of greater units of distance; ern and unsettled regions The coastal, mountain, and valley districts of -

British Columbia; their people, villages, towns, industries; the rapidly peopling pro vinces of the Middle West, their inducements to settlers; the immense prairie, , fertility, its loneliness and its monotony; the advantages of life in our Maritime Pro ces with their varied scenery, milder seasons, invigorating sea-air, productive ${ }_{\text {The }}$ abundance of fuel, fish and fruits, variety of occupation and of outdoor pastimes. ${ }^{2}$ and Saint Lawrence provinces and their place in the agricultural, lumbering ${ }^{n}$, mining attivities of Canada; their great size and population; their chief cities facturing and distributing centers. The Maritime Provinces similarly studied.

The great rivers and lakes of Canada as avenues of communication,--the $\mathrm{can}^{\mathrm{an}^{\text {l }}}$ fed by them; the great railroads built and building; the postal, telegraph and tele phone services; the location of towns as determined by trade advantages; the various means of transportation and travel.

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

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

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

Map-drawing, not so much as a drawing lesson, as to clarify and fix ideas of ${ }^{\text {arefil }}$ distance, latitude, and means of communication. Longitude, meridians and paral The seasons and unequal day and night presented in an elementary fashion throb medium of globe and diagram.

Map-interpretation: the map as showing elevation of land, coast line, coursel of rivers and consequently the slopes and drainage basins of a country; as showing ele tion, latitude, maritime or inland position and therefore permitting inferences ${ }^{8}{ }^{8} \mathrm{an}^{8}$ temperature, rainfall, prevailing winds, approximate length of day in summer and winter, vegetable and animal products; as showing location of towns and cities therefore the general distribution of population and the trade routes.

## Geography: Grade VII.

Whatever physical features the particular district presents, to be studied b direct observation. For example, the natural and artificial drainage. may be mapped in detail, not only its course, tributaries, levels, widths and deftheal but the plants and trees along its margin, its aquatic plants and animal life. there are to be noticed the wearing-down and building-up processes carried on $5 y$ the movement of stones by ice; the effects of rain and melting snows; its source ${ }^{\text {ap }}$ tributaries and the springs that feed it. So, in maritime districts, the effects of wiod frost, waves, and tides upon the edge of the land.

The map of Europe studied for great drainage slopes, highlands, lowlands, plains, coastal indentations, natural highways of commerce like the Meditertap the Rhine, the Danube, the Elbe; great ocean ports and ocean routes; the chief cow modities for export and import and their destination, especially those sent to o try; imports, and especially those from Canada; names of countries and their posity on the map; great cities; languages and races, especially those that have beed ${ }^{\text {fiol }}$
 as determining climate and vegetable products; the chief colonies of Britain and the religions of Europe; Europe as the chief seat of Christian culture.

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

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

## Ghography: Grame Vili.

and The seasons, long days and short nights, etc., observed and recorded. The direction throughth of shadow of an upright stick at noon each day, recorded at least monthly
stick'shout year. Latitude of a place as determined by the sun's height or the length of
Watch shadow at noon. Our longitude as shown by the difference in time between a
keeping London time aud the school clock.
The United States, studied in accordance with the preseription for the British Isles,
grade vii, with names and chicf cities of the most important states.
${ }^{8}$ Hudied in Hex, the West Indies, South America, studied first, from the map, as Canada was grade vi, with special attention to Brazil, Argentina, Peru, Chili.
Asia, especially Palestine, Japan, China, India.
Africa, especially the South Dfrican Republic, Egypt, Morocco.
Australasia, and the various island colonics and minor possessions of Britain.
Commercial geography: great trade routes, by rail, steamer, caravan; the world's
Beat shipping geography: great trade routes, by rat, steamer, caravan; the world's
relative to Marseilles, Singapore, Cardiff, Kobe, Genoa, Buenos Ayres; their position ${ }^{0}$ great ocean routes.
Coresssification of commodities as vegetable products, comprizing products of the
the $f_{\text {arm }}$ such as timbers of various kinds, rubber, cork, bamboo, turpentine; products of
da, coff, as wheat, rice, roots, fruits, sugar; products of wild and cultivated shrubs, as
pots of anindigo, spices; textile materials, as cotton, flax, hemp, jute, wood-pulp; pro-
produce. fimals, as meats, wool, hair, hides, fats, horn, ivory, furs, feathers, eggs, dairy
Prizing ; fish products, comprizing food fish, oils, fertilizers; products of insects, com-
eir sources in lac, silk, honey, wax. Most of these the teacher will be able to trace to
ces in various parts of the world.
Paper Facilities and restrictions to trade; v.g., commercial treaties, customs duties, excise, Money, coinage, posts, telegraphs, and means of transport.
Conmandbook of commercial geography recommended to teachers: Mill's Elementary Cial Geography, pub. by Cambridge University Press, England; price one shilling.)
Government, as despotic, democratic, or as partaking of each; the nature of repregovernment; its universality among highly civilized peoples.

## HISTORY.

The Sub-Committee on History Study begs to report as follows:-
That the object of History Study should not be so much an attempt to store the
ditudes With past human events, as to train the Student to reflect on the changes and vicisof human life as exemplified in the deeds of the past and to enable him to cast a ur Edpon the acts and motives of his fellow men. And that it is therefore the as to accomplish this result as far as our circumstances may permit.
It There has been a revolt of late years against the history of crowned heads and a it is our history deal more with the common people and less with a nation's dignitaries. ${ }^{2}$ direction. A history wholly of the common people would be little more than a text on It is the uncommon man who makes history.

[^10]But the king being the centre of these struggles, could not be ignored by any wise historian until his figure no longer dominated the stage.

History, therefore, is an account of the deeds and the results of the deeds of a $\mathrm{N}^{\mathrm{s}}$. tion's great men, its true kings. Of littie significance is it whether they wear a crown like an English Henry or an Edward, or a workman's cap like a Stephenson, or an Edis ${ }^{\text {b }}$

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

The educational leaders of the United States have of late been giving more atter tion than formerly to this important subject. We quote the following from the Reperd of the Committec of Eight on History, of the National Educational Association, itte at Los Angelos, California, July $8-12,1907$. The general conclusions of this Committe have been stated as follows:-
"It is believed that a leading aim in history teaching is to help the child to appref" iate what his fellows are doing, and to help him to "intelligent voluntary actid $b$ b in agreement or disagreement with them. To accomplish these results there mish to continuous attention in each of the grades to contmaporary problems suitable the firb four grades, while the teaching must be incidental it will serve to give a correct gul ${ }^{\text {b- }}$ tude toward later history. History and civics also should be presented as allied jects, emphasis being placell now on the history, and now on present civics.
"The Committee believes that the subject-matter for a course in the Elementiry in Schools should be selected from American history. But this is not to be interprete and a restricted sense. The pupil must be led to understand that American civilizatioble institutions have their beginnings under European surroundings, and that the prop wer of our National life, even to the close of the first quarter of the nineteenth century, in"a large measure clearly connected with European problems."

Then the Report states that this committee has under consideration for four ther and fifth grades a series of well selected American biographies. In these grades is no attempt to do more than give vivid pictures of men and their times but the pic ${ }^{\text {iil }}$ or stories are arranged in sequence, so that the children may unconsciously givg feeling of the close connection of each story with those preceding and those follo logice Pupils in these early grades are not prepared to take up causes and effects in any way. The considerations which guide in the presentation of the material for th grade are stated in the report as follows:-
"First, a desire to emphasize geographical facts, not alone those which form" part of the history of the discoveries of the fifteenth and sixteenth centuries, but algo the simpler incidents of previous geographical discoveries. Second, the desire to puthit facts of emigration to America in connection with earlier movements of peoples. of thoob the effort to show in a very simple way the civilizations which form the heritage $o$ who were to go to America, that is, to explain what America started with.
"Lastly, to associate the three or four peoples of Europe which were to have ${ }^{\text {re }}$ share in American civilization, with enough of their characteristic incidents to give ol child some feeling for the names, England, France, Spain and Holland. The perio. the discoveries should also be included in the work of this grade.
"In the seventh grade should be considered the exploration and settle mant North America and growth of the colonies, with accompanying European backgrd ${ }^{\text {to }}$ through the period of the Revolution. To the eighth grade would be assigned formation and inauguration of the new government; the industrial and political de pal opment of the United States; Westward expansion and the growth of rival Euro. nations.
ing "The plan of the extrine counse is based on the proposition that the history teachAmerican elementary schools shall be focused around American history; but that of the suristory shall be regarded as distinetly related and developed out of the history course we surounding world; and that if we would maintain interest throughout the
emust avoid the recurrence in successive yembs of the same subject matter.
eller. "The method that should prevail is the inethon that characterizes the good story turesque Our history teaching in the past has failed largely because it has not been picof novelty enough. There has been so much repetition in successive years that the charm kept in mity was absent. Interest has been forestalled. The Committee has steadily grouping mind the demands of the hour, the capacity of the teachers as they are now. The er, yet of the work is so flexible that, while it affords seope for the most talented teachof a meate teacher of lesser attaiments, of restricted information, can make it the basis measurably satisfactory presentation.
$i_{0}$ ' "The grade teachers need and desire just such pedagogical 'apparatus' as they find syllabi as the text books (our Nova Sentia texts are yet to come), and just such detailed have our this. From time to time they have heard discourses, and read treaties (so
 dependees and specific suggrstions. like those included in this report. We are that pent in this comntry, if we would gradually emerge from the hopeless diversity one, "haracterizes our history teaching, upon concentrated efforts like the present

## Does not this apply most aptly to Nova Ncotia?

We see by this American Report of 1905 that history teaching in that country bimbeen allowed to run in the old groove as it has in this country. As their history is
have the and contemporaneous with our own, as we are sprung from the same peoples and ation and common mother tongue, it appears to the committee that we could go to no ect, to a learn, if they have made more progress than we in the teaching of this sublabout of theater advantage than across the line for the reasons just cited. The very condrs of their educationists were on this committee. They a vailed themselves of the of Citition former historical committees in various parts of the union. The chaotic $\mathrm{H}_{\text {Bry }}$ Columbia former history teaching was shown by a study made by Professor Munroe to yland University under the auspices of the Association of the Middle States and fromethod, matacing the curricula of fifty cities, among which no agreement existed as mitto our neightial, or allotted time. We, in methods has no mationality. This learn the ee of Eight spent two years before handing in this report, therefore it should Comthe greatest Eigh spent two years before handing in this report, therefore it should have
their own. Weight with Nova Scotians whose history, as related, rmus parallel with
own
Whe We had our history schedule about complete for presentation to the Committee mend met with the above report and therefore we feel the more boldness in presenting section that the teaching of History in the main outlines. We would therefore recombioprable, of how the rivers, coast waters, villages, including the stories, if they are withiphical sketches of its chief men and the history of memo the memory of the class. The building of any well known structure within the genty of the class of the class. The building of any well teacher to inculcate the ide of time and lay anin the and deal wition for the proper comprehension of dates. In the next grade the teacher Widening with some past or present phases of the history of the Province and so on in S circles to Grade IX.
${ }^{0}$ of ${ }^{\text {sto }}$ istory, like charity, should begin at home, and its lessons should take the shape ${ }^{\text {Ar }}$ O lise the from the lips of the teachers. History about their own home section will one grade to terest of the pupil at the beginning and if carried on and broadened from ex section, another will produce a class of people who really know the history of their fathple, of town, city and country. How much better to put into the hands, for ${ }^{\text {a ampers, }}$, of Halifax pupils, a biographical history of many of the old pioneer city Mould bed today struggles, adventures and successes: men whose names are borne by be! Every old street in Halifax has its history interesting and how practical it Every old street in Halifax has its history. The statesmen of George the

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

And of home history none of it will cling to the memory of the young or be a greater incentive than the storics of our great men or the history of some important $e^{e^{\text {sen }}}{ }^{\mathrm{l}}$ just transpired in our midst, thus creating an interest in the past and in the pres all focusing on our own land.

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

In making a program on the lines laid down in these introductory remarks ${ }^{\text {a }}$, ${ }^{\prime}$ difficulty at once presents itself; the difference between town and country schools; whe manifold chances for advancement possessed by the one and denied to the other. $\operatorname{con}^{25}$ same difficulty crops up in every part of the curriculum; but it seemed to the sub ${ }^{8}$ ens $^{8 x}$ mittee that it was best for all concerned that the curriculum outlined should be ${ }^{\text {ab }}$ year tensive and detailed as the highest graded schools could overtake in one school $\mathfrak{a n d}^{\mathbb{D}}$
 number of teachers would permit. This detail could be worked out by the comber teachers and their inspectors. New text books will be required of a biographic charce. These should not be difficult of compilation, nor need we call for foreign assistance

To present a faultless curriculum is impossible even by a body of experts, which per are not, for a series of grades all possessing equal facilities for study; but with our dhedul ing conditions of city, town and country, even to fairly satisfy is difficult. The scher ing here presented is not meant to defy criticism, except to a certain extent on its under ${ }^{\text {tr }}$, principles, and in these we confidently believe lies the only rescue of this impo subject from the chaotic condition in which it exists to-day.

Finally we must take into consideration the conditions as they exist to-day. we in Nova Scotia a body of common school teachers who are possessed of that $e^{\text {a }}$ ability and training necessary to carry on these history stories, draw these map ${ }^{\text {mo }}$ collect and prepare this biographical material, without the assistance of a detailed gram? The answer must be in the negative. It would be a miracle if we a body of teachers. Where could they learn such a system? Not in Nova Scotia. many of them, think you, on a mere suggestion in the journal, would try this Probably very few. It is human nature to cling with the most stubborn tenacity to skirts of the past and if a custom, good or bad, have the sanction of a few genera there is no hope for a change in the adults, who will view with alarm any novel taken by their progeny and shake their heads ominously about the good old "Illa antiquitas." How then are we to proceed? We would respectfully suggest t committee that the proper course would be by educating the teachers along these at the Normal College; and also from the Education Office, by furnishing them ${ }^{m}$ lists of helps, that is, the title and publishing houses of the needed books, or by pubt ing a detailed course of study and selling it as they do elsewhere. Since starting

Te carne across the course of study for the Common Schools of Illinois, 1907, for sale to
a) ections and the course of study for the Common Schools of Illinois, 1907 , for sale to
those who hats cents per copy. Some of you may have seen it. To book who have not, we may state, that it does not go beyond Grade VIII., yet it is a detail, nearly 300 pages. It has the work of every grade marked out to the last possible grade; and only for the year's work, but month by month for every subject in every of the; and so skilfully is it drawn up that it still leaves ample seope for the individuality due teacher to have full play. It not only maps out the manner and course of proevery hour each subject, but furnishes a time table for every grade for every day and for
Wasted in of every school day throughout the school year; so that no time or effort is
lesged in unsystematised methods of work at the hands of the new and oft times help-
on illustraer; and it is especially meant to a id not the city teacher but the rural. Take stration from their history schedule for sixth year, for just one month.

> "First Month."
$\mathrm{Columbus.-Wirth;}^{\text {time and place. Boyhood; education, occupation. Man- }}$ hood; travels, trials, theories, patrons, adventures, voyages, discoveries, honors and sufferings. Death. Reflections.
$\mathrm{D}_{\mathrm{E}}$ Soro.-Ditto.
$J_{\mathrm{H}_{\mathrm{N}}} \mathrm{Smith}$-Ditto.
leat Then follows recommendations that teacher and pupil agree on the important Pupil Writ the life studied; that they arrange these in proper order; and that each pation. Write a short biographical sketch, using his own expression and power of illusAfter Correction these to be copied into a "composition book."
Io Then follows a suggestion as to Columbus, so that no teacher can give an excuse knowing just what to do. It is as follows:-

## Place

| 1. Birth . . . . . . . . | Date <br> Education |
| :--- | :--- | :--- |
| 2. Boyhood . . . . . . | Opportunities <br> Occupations <br> Theory of Earth |
| 3. Manhood . . . . . . . |  |

4. Death
5. Reflections
of Compare this with the monotonous drill of our schools, forcing upon the minds of drier imitative and receptive youth, dry details of old kings and queens, long bod degislative dates, and driest of all, the thick sprinkling of centuries of parliamentary about te rubbish. And then we wonder that they choke and gag at history, as we out their heads this dust of the ages.
${ }^{4}{ }^{W} \mathrm{We}_{8}$ need not refer further to the above mentioned course of study than quote it as ${ }^{0}$ urnple of what is being done by our greatest rivals-the people who are decimatof people intion. It would be absolute folly to state that history study alone will Whur own in Nova Scotia, if they can make more money elsewhere; but history study our most advanced counties, towns, and cities, as viewed through the lives of the men oulung men today have not. The name of every Western State has a romantic halo indy from our youth, owing to the adventures of its pioneers, and the fact of its being hom home. But our pioneers had their adventures; let our youth hear of them opd Dom the men who made the country, a larger knowledge of our own province, may
Thech Scotia look more closely into its possibilities, and cause many more to decide that thro an awakening a land to forsake, but to build up. There is not a doubt that to-day ond ofh prakening is taking place in Agriculture in Nova Scotia simply and purely litule tim school methods, even of the wisest character, can accomplish great things in It is little the greatest can do, but our schools need our best efforts and
we should have them so directed that nothing be wasted. Now, even to risk a repr mand from the members of the Committee for the undue length of this introduction we will again refer to the question of our ability to carry on successfully such a pe to gram as is being carried on to-day in progressive centres. The difficulty may be bot get our teachers as a body to adopt the biographical method of teaching history a nd a dould to save hours of labor, drop into the old methoul of text book recitations. We shred, note, however, that the first year will be the hard year, as the stories, once preparde can be used for the incoming classes, and biographical text books will ease and grers the teacher. But if we have no such teachers, or if we have them in rare numbers, beginning may be difficult and success for some years be doubtful. As previl the stated, such a system as here laid down means a now set of text books-it means supplying of Grade helps to teachers in all our sections.

Perhaps it would be better at the start to compromise somewhat, and, if the system as here presented, the system followed by the American schools, is found to ${ }^{\text {be }}$ beyond the reach of many of our sections, we submit it to the Committee if it wo $^{10}$ not be wise to insert the thin edge of this biographical wedge in such sections as beeb afford the change and have teachers of sufficient skill to carry it on after it has be introduced. We must start somehow and somewhere.

If you consider this system the correct system of history teaching, but ${ }^{\text {an }}{ }^{\mathrm{n}} \mathrm{nul}^{\mathrm{n}}$ see your way to adopt it in any sense, we may as well veil our position in silence. $i$ ning' if it can be begun, even in the smallest way, would it not be wise to make a beginfully however small. This curriculum submitted by the sub-committee, we are pain sug aware, needs much overhauling and correcting. Its main purpose, however, il ${ }^{\text {akg }}$ gestive. Neither are we in despair but that teachers can be procured who will torf this method a reality. Our Normal School can train our teachers well to conduct sine wo history lessons. They probably do so now, as we are not so conceited as to imagin ${ }^{\text {a }}$ are introducing any method of which every member of the Committee has not hefuris well as ourselves. The Normal School can also, as well as the Education Office, fur and their out-going teachers, before they get the fever of "Westward Ho," with the title publishing houses of all the needed helps. Whether or no you agree to the sugged here submitted we believe that after a discussion, the adoption of some needed chan will result, that may breathe life into this important branch of our School curriculu

## HISTORY. GRADES I. TO VIII. INCLUSIVE.

## Grade.

Grade III.

Grade IV.

Material.
History of Section.

History of the County.
Biographies of leading county men of the past with pictures if procurable.

Reference book for teachers: The County History.

## Methods.

Stories by teacher, oral reproductio question by teacher about the a thert houses-who lived in them? Are ${ }^{\text {? }}$ ? ${ }^{\text {te }}$ any descendants among the pupils.
Gathering of other information by the ${ }^{\text {plu }}$ pils and teacher;
Construction of a map of section; the in of dates impressed in Grades III. or pref by calculating back from the pring a the time elapsed since the happen with some noteworthy event in section in the memory of the class.

Stories by teacher; oral reproduction ${ }^{\text {n }}$ Government, illustrated by School the Board and its Executive officer it to teacher: thus enabling the pup take in intelligently the idea of
 ry, and have pupils copy the same ${ }^{u}$ they have it in memory.

Biographies of leading discover-Stories by teacher on the makers of early ers or men prominent in early American and Nova Scotian history, Nova Scotia and North Amer ican history beginning with Lief Ericson, Columbus and ending with Wolfe and Treaty of Paris, 1763.
References for teacher: Historjes of England and Frrance; Higgisson's American lixplorer; the first three Pinglish books on America by Richard Lden; and the History of Acadic (Hamay) or sinilar books. taking in as many biographies as time will permit, inchuding anecdotes of birthplace, boyhood, etc., giving any adventurous or romantic feature full play. Many an unimportant anecdote as viewed historically may however, be most interesting to the pupil; use pictures of these men; pictures often being the best modes of begiming a story.

Assign short lessons for reading aloud in school or to be learned at home, from biographical text-book, on oceasions of review.

Introduce Indian stories in connection with European settlers, as in Order of Good Times.

Biographies of chief men of Ear-Prepared storics or readings by teacher ly Canadian History (not already touched upon) such as Cartier, Champlain, etc., to 1763.

Biographies of men instrumental in forming the various Nova Scotian Counties (not already mentioned), or lacking biographical information, the stories of the County Town Settlements.
Cape Breton's fisheries and coal mines.

Some leading feature in history of Nova Scotia from 1758, to Howe's time.

Teacher's References: County Histories and Journals of early explorers; Browne's History of Cape Breton.
Selected portions of English History from Henry VII. to Queen Ann, and France un der Louis XIV., showing conditions in Europe leading to interest in America.

Biographies of Howe, Johnson and others, comprising the group for and against Responsible Government, and those for and against the Un ion of 1867.

The Beginnings of Railways in Nova Scotia, Feb 8, 1855, ete.

Biographical Canadian History
from 1763-1867.
tions not touched upon in Groniza tions not tonched upon in Grade V. For example:

About settlement of Cape Breton from Western Scotland
About threeft Id division of Cape Breton. among English, French and Soanish for fishing purposes, the respective harbors being St. Ann's, Lonisburg and Baie Des Espagnols (Sydney); Early Mining. Stories and Adventures of Denys and others.
About Settlement of the vacated Acadian lands after 1775.
About The French at Digby.
About Germans at Lunenburg.
About English at Queens.
About Loyalists at Shelburne.
About Scotch at Yictou, and so on, subject to time at disposal of teacher, leaving time for oral and written reviews at end of term; successive reviewing during term to be a voided as much as possible by introduction of aneedotes in connection with men which can be easily remembered.

Foreign history presented in prepared stories by teacher.

Stories and readings by pupils and teacher; assignments and recitations of home lessons from Nova Scotia and Canadian history texts (Biographical mostly).

Maps used as in previous grades.
Prepared lessons on English History as showing how the War of 1812 grew out of the Napoleonic wars, and its effect on Nova Scotia.

$|$| Introduce some early portions |
| :--- |
| of History of England with |
| some selected portions of En- |
| glish and European History |
| touching directly or indirect- |
| ly on Canada during the |
| time of the Georges. |
|  |
| Recent events of Nova Scotian |
| History from $1867-1910$ ga- |

Text-book assignments and recitatiops oral and written. thered as far as possible from biographics of such leading men as Dawson, Forrester, Tupper, Thompson, Fielding
Readings of selected portions of History. by teacher and pupils to be followed ${ }^{\text {by }}$ talks. Murray and others prominent in Political, Industrial and Educational life.
Canadian History, touching on several leading Canadians, from 1867-1910 as Sir J. A. Macdonald, George Brown, Alexander Mackenzie and others.
English History, touching on the various reforms and wars of the times of William IV., Victoria and Edward VII., especially the History of the Boer War and Canada's connection therewith.
History of Railways in Canada and a continuation of Nova Scotia's Railway history.
Laurier, Chamberlain and Imperial Federation.

The above Schedule is, as we remarked in the body of the Introduction, man ${ }^{\text {gin }}$ lsp suggestive. The ground, for instance, gone over in Grade VIII should perhaps o setle into the first Jyear with the introduction of more British History. That could be get right by some Committee. We are well aware that Educational matters cannot be set hope by a torrent of words or the sounding of brassy paragraphs in the public ear. We ${ }^{\text {ay }}{ }^{\text {b }}$ we have not erred in this direction. We have presented to you, as faithfully as our power, what is being done in progressive centres; and as some of the chang one gested are of a very radical character and mean the expenditure of considerable mould ${ }^{\text {mb }}$ we thought that nothing that conld possibly be said in reasonable space sholl omitted.

## Arithmetic.

Notes on the first four grades;-Teachers will observe from the work prescribed that the object of the first four grades is to give a complete and thorough knowled piv the fundamental rules of Arithmetic, Addition, Subtraction, Multiplication and ${ }^{\text {and }}$ the sion. Accurucy is the first and great essential and should be insisted upon fre secon beginning. The correct answer should be required at the first attempt-no serrect trial or guessing. Give the pupil sufficient time but insist upon an absolutely con in ${ }^{2 e}$ answer. When accuracy has been obtained, rapidity of work will come from contil and well directed practise.

Unless accuracy and rapidity in the fundamental rules are developed in ${ }^{\text {the } 0^{2 f}}$ grades, the pupil will be handicapped throughout the whole course. No text-b should be used by the pupil in these grades.

## PROPOSED COURSE IN ARITHMETIC.

> Grade I.
the Addition tamental operations with small numbers, giving particular attention to
to be insisted upon from the start.

$$
\mathrm{G}_{\mathrm{Rade}} \mathrm{II} .
$$

${ }^{\text {tion }}{ }^{\text {As }}$ in Grade I. with further drill in Addition and Subtraction Tables. Multiplica${ }^{6}$ ract upon in armers should be given to secure rapidity. Accuracy must always be insisted

## Grame IIt.

With Complete the Multiplication Table and apply it to multiplication and Short Division practical exercises. Notation and numeration exercises to thousands.
Continued daily drill in Addition and Subtraction.
Grade IV.
the Long $^{0}$ Division and the practical application of the fundamental rules as found in siven by the pages of Part I. of prescribed Arithmetic. Further examples should be the teacher based on problems likely to be met by the pupil in his home life.
${ }^{1}$ evelopirdupois Table and measures of capacity learned. Idea of simple fractions oped. Notation and numeration continued.
Notes on first four grades. The chief aim of the work in these grades is to develop
be the fir and rapidity in the four fundamental rules. As stated above Accuracy should
mades irst consideration, and possibly, in the first two grades the only one. In these
himp pupil should get his examples from the teacher, or, at any rate, if a book be it should not contain answers.

## Ghade V.

Leachart I. Arithmetic completed with further examples of a similar kind given by the Thanadian Moral lessons on fractions and decimals, especially in the latter examples mental Money. Linear Table learned. Short daily drill in addition and other
rules. That The statements of the Unitary Method are explanatory and should be thus used, not when the pupil once understands the problem the lengthy statement should ways be asked for.

> Grade VI.

Pa Factors, Multiples, Fractions (Vulgar and Decimal) as in Part II. Arithmetic to
4ale rule. Further Tules. Further examples on Tables already learned. Continued drill on fundamen-

## Grade VII.

$H_{\text {etrion }}$ Common weights and measures as in Part II. Arithmetic pages 73 to 84, omitting
${ }^{\text {omittic }}$ System weights and measures as in Part II. Arithmetic pages 73 to 8 , omitting $\mathrm{Fir}_{\mathrm{i}} \mathrm{cone}_{\mathrm{e}}$, pyramid, cylinder and sphere.
First two chapters of Morton's Mechanical Drawing.
Girade VIII.
${ }^{\text {Problemas }}$ Part II. Arithmetic completed (omitting Ex I to VII. and XLVIII). Simple on metric system.

Commercial forms:-Receipts, Notes of Hand, Cheques, Drafts, etc., simple busil ness definitions, simple business correspondence, making out and receipting ple bills, modes of remitting moncy, keeping of a cash book, keeping of a simple account in Day Book-Ledger form.

Morton's Mechanical Drawing, Chapters III and IV.
Algelra:--Evaluation of formulac, and easy simple equations with application of the same to Arithmetical problems.

G. K. BUTLER.

## PROVISIONAL NATURE STUDY COURSE.

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

The aim of nature-study is to give an interest in, and an acquaintance with ${ }_{\text {ad }}$ d common things and processes of nature; to develop the habit of investigation, ${ }^{1013}$ incidentally to give useful information. The imparting of information being incided the to awakening an interest and developing the habit of investigation, it follows that should child's attitude toward the work should be always sympathetic. Nature study The ip never be a task, and the work should be stopped before there is any fatigue. quiring mind, so essential to any work of investigation, can be greatly encouraged id the setting and solving of simple problems on the nature-study work. It is betmon these are the children's own problems, not the teacher's. The first and most con of this problem with reference to a natural object is: What is it? From the solution of do ${ }^{\text {it }}$ the child often goes, or can be led to the problem: What is it for? or, what or $1^{1198}$ do? and how does it do it? As these problems are solved new ones will arise or dopd be suggested by the teacher. It is a sign that good nature-study work is being thetr as long as the pupils are solving problems with reference to the materials before or, in other words, investigating.
"Whenever the comparative method can be employed, its use is strongly rec will mended. Comparison includes contrast,--that is, the observation of differences ${ }^{\text {as }}$, ${ }^{\text {cif }}$ as of similarities. In objects that are alike, interest is excited by points of differeg dog and conversely in unlike objects by the points of similarity.* $* * *$ The ${ }^{*}$ suggested as an object of study, but it is easier and more effective to make ${ }_{*}{ }_{*}^{\text {na }} *$ study lesson of the dog in comparison with the cat than of cither alone. * ${ }^{*}$ in the Observing the differences in the ways in which the horse and the cow eat grass either pasture means more than twice as much training to the child as observing how prett) one eats alone. One reason for this is that paying attention to the differences is p sure to cause the observer to wonder about their causes." Dearness.

Teachers who have difficulty in finding time for nature-study can overcome thisg in a measure by having some of the work incidental and informal, and by mils for correlations with the other school work. Suggestions may be made to the pup hop ${ }^{\text {ped }}$ observations out of school hours, or problems (not tasks) set for solution at arion, In and around the school there should always be objects of interest for obser ag such as plants in flower pots, window boxes or gardens; insects in breeding
living
childrenings in aquariums, etc. Collections of natural objects may be made by the interest in and informal talks given on these by the teacher with a view to awakening an
In teachin nature and starting the children looking for things in their surroundings.
Dature-stung language, written or oral, drawing, number work, etc., correlations with
Bained for will add to the value of the teaching in these subjects and time will be Lor nature-study.
Nature-study is alwavs from objects, never from books, notes, or telling. "It is
be, and study, that is, studying by natural methods.' The method of nature-study may
is dond often is, used in teaching the other subjects, and it is then that the best teaching
school, for the nature-study method is the one pre-eminently suited to the Common

## Grade I.

and $P_{\text {LANTS. }}$ Hlowering plants such as golden rud, aster, burdock, dandelion, tulip, Color, orlory. Recognition and names of flowers. The whole plant-root, stem, leaves,
Structure or Planting a seed, as a nasturtium. Watching and caring for the plant.
folling of of such seeds as dandelion, maple and burdock observed. Coloration and of leaves.
beech, lila -Watching the unfolding of buds in the schoolroom, as horsechestnut, lac and willow.
Fruts.-Apple, pear; phim, etc. Color, odor, taste, parts and uses.
Veqerables.-Potato, onion, carrot, turnip. Color, parts and uses.
Animals.-Pet animals. Simple observations on such pets as cat and dog.
of a pasteboard box covered with glass or netting.)
$\mathrm{B}_{\text {Imp.--Learn }}$ to see and hear them.
in the elarat Phenomena.-Daily observation of the weather recorded by the teacher

## Grade II

of the PdNTs.-Learn to know the wild flowers found. Note the color, odor and home a panat. Learn to know the trees, cones and leaves of evergreen. Planting a seed y, or starting a slip as a geranium. Watching and caring for the plant.
$\operatorname{com}^{A}$ few simple experiments in germination. The different ways in which seedlings thavior of the ground. Parts of the seedlings-root, stem, leaves. Seed leaves: their mo by and uses. Watch development of buds in schoolroom. Planting a bulb as tefer of planth, narcissus, onion, etc., in the garden or flower pot. Watching develophee tot. Structure of such seeds as bidens, agrimony, ash, thistle, ragwort, with means of dispersal.
Dea, Fruits and Vegetables.- As strawberry, raspberry, currant, grape, orange, etc., bean, corn, tomato, etc.
theep, etcels.-Domestic animals of the farin. Simple observations on the cow, horse,
Weanders.-Watch development of caterpillars in cages. Collect cocoons aud galls. BI loses of a few large butterflies and moths.
NADS.-Watch for birds as they come and learn to know a few of them.
Pural Phenomena.-Steam, clouds, rain, dew, frost and snow. Weather chart
Grade III.
Dor

$x$
${ }^{P}{ }^{\text {Panns }}$ of the Learn to know wild flowers found. Learn to know the trees. Com9 forms of evergreen and deciduous trees. Parts of the flower as in tiger
lily. Use of pistil to bear seed. Stamen to bear pollen. Growing of plant from seed ordslip, as sweet pea and fuchsia. Seed dispersal, hy wind, by water and by animals. Study of one or two evergreens. Experiments in germination and planting of sedb. Opening of buds.

Animals.-Common wild animals, as squirrel and rabbit.
Insects. -Insects in breeding cages. Aquarium life. Life history of cabbage butterfly, or a beetle.

Brads.-Watch for and identify birds as they come. Learn to know their songs and habits.

Natural Phenomena.--Steam, clouds, rain, dew, frost, snow. Weather chart.
Grade IV.
Plants.-Learn to know the wild flowers found. Learn to know the trees, ${ }^{\text {as }}$, spruce, fir, pines, ash, etc. Parts of flower, uses of the parts. Growing of plan ${ }^{\text {ts. }}$ Experiments in germination and planting. Development of buds in schoolroom. parison of bulb with bud.

Animals.-Comparative study of pet and domestic animals, as for example, ${ }^{\text {the }}$ difference between the teeth of a dog and a cow, with the reasons therefor.

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

Brpps.--Identification of birds by plumage and song. Learn their food, nest and habits.

Natural Phenomena.-Evaporation, condensation. Simple lessons on solver Learn to recognize the nost common rocks and minerals of section. Learn a fer spicuous constellations and note their motion, as the Dipper, Orion and Taurus.

## Grade V.

Plants.-Learn to know the wild flowers, continued. Trees, their forms ${ }^{\text {ad }}$ uses. Begin a collection of different kinds of wood. Learn to know the weeds, dy ragwort, sow thistle, wild carrot, ete. Parts of the flower and uses of the parts. of an easy family, as cruciferæ. Seed dispersal continued.

Animals.-Toads, frogs, snakes, etc., habits and uses. Fish, forms, and use of different parts of their bodies.

Insects.-Injurious and beneficial insects developed in breeding cages, as potation beetle and lady-bugs.

Brads.-Identification of birds by plumage and song. Learn habits of a few, ${ }^{\text {as }}$ the common sparrows and note their use to man as weed destroyers.

Inorganic Work.--Keeping of weather chart. Experiments with the magredy Compass. Learn a few constellations and planets, and note motions of the hea ${ }^{\text {van }} \mathfrak{a}^{d}$ bodies. Common minerals. Study of candle flame. Experiments with oxygen ${ }^{\text {a }}$ carbon-dioxide. Ventilation.

## Gride VI.

Phants - Wild flowers, continued. Trees, their forms and uses. Collection of various kinds of woods. Collection of tree seeds. Starting a nursery of native tref from seed. Study of weeds continued, as knapweed, rattle box, and cadlock. Stud con two or three easy families, as cruciferæ, leguminosa, and rosace. Seed dispersal ${ }^{\text {ans. }}$ tinued. Pot experiments in drainage and growth of plants. Work of roots and stem
habits, Animals.-Adaptation of structure of different kinds of animals to their respective $^{\text {min }}$
colorats, as for example, the teeth of rodents, claws of climbing animals. Protective oration of animals.
INSECRS.-Injurious and beneficial insects, as cutworm, tent caterpillar, brown-
taided moth, tussock moth, dragon Hy, bee.
Birds.-Identification and life. Usefulness to man as companions. As weed and
insect destroyers. Inorganic.-Movements of sun, moon, planets and constellations. Minerals and

## Grade VII.

Plants.-Study of wild flowers, continued. Further study of weeds, annual, bienmith reference to insect pollination. Work of bees. Pollination. Structure of flower life. Plans, bracket fungi, puffballs, horsetails, and ferns to extend the meantance with ding. Plant store houses of food with starch test. Work of leaves. Grafting of plant
horse, Animals.-Study of animals in relation to man. Animals useful to man, as cow,
tors, etc. Sheep, toad, etc. Animals harmful to man, as rat, mouse, mink, weasel, skunk,
e. Visits to stock barns. Observation of leading types of farm animals.
$i_{\text {Inju }}$ I INsecrs.-Life histories of injurious and beneficial insects, as orchard pests, insects us to field crops, insect parasites. Aquarium life, mosquito and caddice worm. owl, Bileds.-Identification and life. Use to man of such birds as robin, crow, hawk, Inture study ${ }^{\text {Mor }}$ Work.--Such study of physical geography as can be carried on by the Gerpistry method. Minerals and rocks of the section. Soil experiments. Osmosis. Exprimen of the air. Study of flame. Experiments with oxygen and carbon dioxide. riments with air and water.

## Grade VIII.

Study $^{P_{L_{A}}}{ }_{\text {of }}$. - Identification of wild flowers to complete phenological observation. tions of cross and longtiudinal sections of a piece of wood. Pith, bark, medullary rays. fop Stions of stems of bean and corn. Noxious weeds; their characters and eradicaef inilies. Flow of families, as heath, violet, pink, figwort, evening primrose and thistle

Experimers in relation to insect pollination, as Mayflower, snapdragon, pansy,
ments to show the effects of seed selection and action of different fertilizers.
Arimals.-As in grade VII., continued.

$\mathrm{B}_{\text {IROS., K Knowledge of the lives and uses of birds to man. }}$
 hetism.

## USEFUL BOOKS FOR THE TEACHER.

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

Bird Neighbors, Neltjie Blanchan. Doubleday, Page \& Co. \$2.00
The Nature Study Course, Dearness. Copp, Clark \& Co. 60 cents.

## HYGIENE ANI TEMPERANCE.

In view of the omission from the High School Program of, the course in physiology and hygiene, it is important that, in the common school, instruction in the care of the body, the laws of health, and the evil effects of using alcohol and tobacco, be maded as effective as possible. To accomplish the bent results it is necessary that, beside 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 eleaning of the rooms.
(c) The teacher should manifest a constant concern for the personal comfort of the pupils, the proper heating and rentilation of the school-room, the supply of fresh water, the cleanly habits of the pupils, their frequent refreshment ${ }^{\text {by }}$ means of recesses and physical exercises, their games, their gait and posture-
In the first four grades no formal instruction is needed. Some knowledge of the human body may be incidental to the "nature" work of those grades; but the teacher whose personal habits and management of the school are properly influenced by ${ }^{a p}$ acquaintance with hygienic principles, is measurably safe in omitting in those gradth everything of the nature of laws of health, trusting entirely to a few rules of bead pertaining to cleanliness, fresh air, sleep, the use and care of the teeth, posture a movement.

The teacher should know that restlessness and changefulness of interest are the normal condition of the child in waking hours, and should, in accordance with this facly limit the duration of periods devoted to sitting still, or to any one task. She sho ${ }^{\text {ted }}$ in all classes endeavour to note the approach of fatigue, which is, in general, indicides by the failing interest of the average pupil. She should be conversant, with devg fret for restoring interest and banishing fatigue through change of occupation, through fom. and vigorous physical exercises, and through short intervals of unsupervised freed dure In general, it is expedient for her to have the pupils understand each new procerely adopted for their comfort, interest, and contentment. In no long time, what was ${ }^{\text {agaid }}$ a rule will come to be understood as a law; and, by the recognition of law as ally. of rules of health and of life, the pupil will profit not only physically but moraly $\mathrm{gen}^{\mathrm{n}}$ great point is, indeed, made when the teacher has thus convinced her pupils of hed theis confidence and good-will, she need have little fear of committing them to any reason. task.

The requirements of our Provincial Statutes make it necessary to put "The $\mathrm{Il}^{\text {qa }} \mathrm{lt}^{\mathrm{fb}}$ Reader" into the hands of the pupils of the upper four grades. There is, we regret ${ }^{\text {rits }}$ note, ample evidence of the unintelligent use of this book, which, great as are its of the as a reader, lends itself to mindless repetition, and to the worst forms of abuse obs question-and-answer method. A partial corrective may be obtained, we belie follow setting out in detail a list of topics for each of the upper grades, these topics to using a different order and treatment from that given in the Health Reader; and by see the latter as a book of reference and a reader,-the use for which its title would to intend it.

The true purpose of lessons in hygiene and temperance is to"enforce"upon the ind of vidual the facts and principles involved. It is difficult to believe that the time ter pupils is well spent in learning book facts about the teeth and the skin, unless the with cher uses her best endeavors to promote the use of tooth-brush and tub. And so every principle and practice dealt with in the text-book. Right conduct in the should tials of hygiene is the real end; and the method of instruction, wherever possible be identical with that in nature-study.

For example, the phenomena of heart-beats, artery-pulsations, increased rapidity of pulse after vigorous exercise, flushed face, bleeding and bandaging, are easily observable by children, and should form the data for a first-hand study of the heart and the circulatory system. Similar treatment is easily applicable to the study of the teeth, the lungs, the stomach, the phenomena of fatigue, sleep, colds; of the effects of sunshine, bad air, tobacco (especially if the school itself provides a "horrible example:") Rudimentary and common-place as the child's observation of these phenomena may be, it is of the highest importance for promoting his interest, and cultivating an inquiring The thede; and we have little faith in instruction that proceeds by any other course. have place of the Health Reader in each lesson is posterior, not anterior to the study we tivenabove indicated, and its usefulness will prove to be commensurate with the effecaseness of the preceding lessons. Such lessons are "nature-lessons," and they should, the ucated in the present, course of study, be permitted to supplant from time to time he usual "nature-lesson."

We would point out here that the Health Readers omit to explain the nature of germ-action, of disease, and of simple preventive measures. Lessons on these topics eaght to be comprised in the outline of work for the upper grades, germ-action being aids to thatrated in the lessons"on plant life. A few suggestions for lessons in first

To recapitulate we would recommend
(1) The setting out of topies for study in each grade,
(2) Outlining two or three lessons or lesson-plans to illustrate method,
to tube Including in the topics those of disease and prevention with special reference losis and first aids to injured and to drowned
(4) Recommended more stress be laid upon the teaching of (a) eflects of alcohol and narcotics contained in patent medicines, (b) the moral and economic aspects of
temperance.

## PHYSICAL EXERCISES.

Public system of physical exercises for children is at present being introduced into the stams. schools. The exercises are fully described in the text and illustrated by diaby the Eno exception can be taken to the exercises, as they are the ones recommended by a few bylish Board of Education. It will remain of exercises best suited to young children, and to explain the peculiar effects and value of certain classes of exercise.

## MUSIC.

Some purposeful treatment of musical instruction and singing we would recommend With theedf. Owing to the continual changing of teachers, the unmusical alternating Bight is musical, the development of musical knowledge, and of the ability to sing at 8ipht-singiscouragingly slow. The ubiquity of the reed-organ and the piano rendered Who canging less essential than formerly, and has obscured its value to the eyes of those either cannot play some instrument. Teachers who cannot sing at sight cannot teach in givingic sol-fa or staff, and a mistaken notion prevails that such teachers are justified taken tg only a perfunctory attention to the singing of the school. Means should be in value correct this fallacy. Well conducted expressive singing "by ear" may exceed it should the musical exercises of some schools where sight-singing is taught. Singing, expression be made plain to the teacher, is one of the few avenues for the child's emotional of the chin in school, (the teacher has others); and, for the well-balanced development "conditild, emotional, no less than intellectual experiences should be provided. "These "pressions are satisfied in a high degree by national or folk songs, which are the ex-
"tism, the in the idiom of the people, of their joys and sorrows, their unaffected patrio-
"the eareir zest for sport, and the simple pleasures of a country life. Such music is
"Whearly and spontaneous uprising of artistic power"in a nation, and the ground on
"their survitional music is built up; folk-songs are the true classics of a people, and
"ing". survival, so often by tradition alone, proves that their appeal is direct and last-

The important source of supply of teachers competent to give instruction in sightsinging is the Provincial Normal School. For these no detailed instruction ought to be necessary; but there is a fair proportion of untrained teachers who have musical feeling and who are competent to teach songs by rote, and these should be encouraged and aided by a few brief instructions. Two matters appear to us as especially worthy of treatment;
(a) 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, (the use of the "head register is easily ensured by the child's singing up the scale in the "chest" register until the voice breaks, and continuing his singring in the "head" notes which ascend from there); secondly that pupils learn each year a half-dozen or more good songg. 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 oriyin, we Canadians have a proper inheritance in the ancient hymns of the Church, in the Christmas Carols, in the national and folk songs of England, Ireland, Scotland, and France; and it is a thousand pities that our children should not be learning and singing these in school and out, instead of contenting themselves with characterless songs from American so-callet "School Song" books, and scraps of contemptible ballads gleaned from vaudevile. For the upper five grades of the common school there should be no great difficulty in selecting goorl songs, and such songs, as well as being precious in melody and in literary quality, will often associate themselves with our common religious and moral experiences, or with historical and geographical incident; Consider, for example, such Christm ${ }^{98}$ songs as "It Came Upon a Midnight Clear," "We Three Kings of Orient Are;" and cient hymns like "Conquering Kings their, Titles Take," "The Strife is O'er, the Battle Won," "O Come, all ye Faithful;", songs associated with our past and "ountries of our forefathers, such as "Flowers of the Forest," "Caller Herrin", "Tara's Hall," "She is Far from the Land," "Rule Britannia," national hymng as those of France, Germany, Russia, Denmark; Canadian songs, such as the stately "O Canada,", which was sung with effect at the Quebec Tercentenary, and "A Canadia Boat Song." The English "Suggestions to 'Teachers'" lists some two hundred national songs suitable for the common school, and most of them are accessible in music books universally available or are printed in penny sheets.

In the lower departments of fully graded schools there is need of songs within the musical capacity of infants, and a little book of such songs, comprising a few "action" songs," it would, we think, be well to select for recommendation to primary teachers.

## Writing.

Children will in time learn to write somehow, no matter how poor the instruction and some may even learn to write well with a minimum of teaching. Undoubtedly, all normal children can learn and will learn to be good penmen if their instruction is of that sort that begins right and continues right. The pedagogy of writing is an easy subject to master, and it is inexcusable in a teacher to be content with the penmanship of her pupils unless it is at all times neat and legible, and unless the progress of a year mark an increase of fluency.

Neatness in writing proceeds from uniformity, chiefly uniformity of height $\mathfrak{a n d}$ slant; from a well-kept margin, and from cleanliness.

Legibility, while partly due to the distinct fashioning of the letters, is dependant also upon uniformity of height and slope.
Fluency comes from well-directed practice (which is an easy thing to say), and it is just how and when to accomplish this that the teacher is often ignorant. Uniformity and legibility are qualities which persistent watchfulness will secure; but fluency wiy be secured only at the expense of some intelligent effort on the part of the teacher. Ans teacher who will study a little penman's manual like McIntyre's "Guide" will eas fluent. The most learn to administer the exercises calculated to render penmanship fluent. The most

Conspicuous omission on the part of our teachers is that of requiring frequent writing-
exercises on loose practice-paper-exercises in tracing scrolls, spirals, m's, circles, loops,
Darallel 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, surgestion, correction.
therection, 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.
Specific and systematic instruction in the teaching of writing is, we think, espec-
What needed by teachers of the first four grades. Learning to make a letter is a some-
Visit complex feat. First, the form of the letter must be conceived, and to aid in
it on thig it various devices are practised: for example, the teacher traces and retraces
the lette board; or the pupil traces it on dolided lines. Direction of path in forming
Write the must be noted. Then the muscular coordinations required to trace or to
positione letter must be practised matil they are automatic. In the meanwhile the
With on papil, of arm, of book, of pencil, must be gradually brought to conform correct method, and reluced to it fixed habit. To secure this a short formal
leaven must be given each day. Mothod and watehfulness in the first four years will table essentials to be dealt will later, but for a teacher to set out with the comfor-
come roctrine that things will come right of themselves, is intolerable. Things may
upon thigt, but in the meantime the child may have expended undue time and energy
Peamans morely mechamical task; or he may have left school, and, through deficient hip, may have forfeited golden opportmities.
As soon as convenient the child should be shown how to make ase of his powers of
pemmanship. Writing is not an end but a means, and this the child realizes to his great
motive when he has been taught to write a note to parent, to Santa Claus, etc. A
林解 is now provided for doing his best, and this motive should be kept operative in
sradeg. font exercises in correspondence, business forms, themes, etr., throughout the
position for the execution of the written task presents a fidel for skill not only in com-
thould , but in margining and spacing, and in the tricks of penmanship, and the pupil grow to regard as discreditable a written production lacking in form.
In this brief study we have indicated the progressive stages of instruction in pen-
${ }^{4}{ }^{\text {niship }}$ this brief study we have indicated the progressive stages of instrung to which a course for the eight grades must proceed

## Hygienis and TEMperance.

Sogerited Courses of Teaching in Hygiene and 'Temperance for boys and girls At The publie flementary schools of the united kingdon of (ireat BritUnind Ireland. Issued by the Committee of the Medichl Prgfession in the
Temed Kingdom, constituted to promote the Timaching of Hiciifene and ce. Chiirman Sir William Broadment.

Note.--It is proposhd that one lesson per werk be given,
(Slightly modified by Committee of Sixteen).
 Talion. To be gradually introduced in Sections according to age. (Oral instruction with obserBook for Teachers' use adapted to such Instruction.)
And Posrtion.-_Sitting erect and standing erect. Chest position. Drilling, marching sitting orly self-controlled movements. Injuriousness of crooked or cramped posture or standing. nger, selfishness and rudeness. Motion-songs and dances (open-air).

Slemping.--Sleep needed by animals, children, and everybody. Children need far more sleep than adults because their bodies have to grow very fast. Going to bed early.

Eating.-What animals eat. What children should and should not eat.
why not between meals. The teeth and their care detail.

Drinking.-Water and milk good drinks. Tea and coffee not good for childrent The juice of ripe fruits healthful in the fruit, but not after being pressed out and allowed to stand. Beer, wine, and cider unwholesome and injurious drinks. Beer renders people drowsy and less fit for work. The waterpail and cup and rinser; the fountaid top; fresh water and covered pail.

Clothing.-Of birds and other animals; of children. Summer and winter, damp and dry clothing.

Clennliness.-Soap, water and individual towels. Care of hair, teeth, nails. nose, feet, clothing, and desk. Use of door mat.

Growir.-Helps to growth; wholesome food, work, play, sleep, fresh air and suld shine. Hindrances to growth such as alcoholic drinks and tobacco.

Sweeping of schoolrooms; dust-banes, oils, etc.
Specify some cheap :mileffective home-made tooth-wash or paste and encourage its use.

The Body as a Whole.---Trunk, limbs, and head. Relation of correct position to a well-formed body.

The Nose.-Use of handkerchiefs. Colds from breathing impure air.
The arms and Hands.-Parts of the arm. Parts, uses, and care of the hand-
Legs and Feet.-Uses and parts of the leg. Parts of the feet. Proper dress $a^{a^{d}}$ care of the feet. Strong, swift feet.

The Senses.-Sight: use, guard against close work and poor light. Hearing training in quick and accurate hearing; how injured. Also, exercises in quick and ${ }^{\text {ac }}$ curate seeing, tested by showing objects, arrangements, ete. by visualizing diagran on black-board, etc.

Touch. - Where the sense of touch is located. Distinguish between objects tha $^{\text {a }}$ t are hard, soft, rough, smooth, etc.

Table Manners.-As in American Syllabus, Second year.

Topics Suitablei for Children of About Efght Years of Age (Grade ill, Nova Scotis).
(Oral Instructions, Diagrams and Simple Experiments. Book for Teachers' wh adapted to such Instruction.)

1. Pure Air and Breathing.-How air gets to the lungs. Why air of roons. needs to be changed often. Importance of fresh air in the bedroom during the nigbt. The airing of bedrooms in the morning.
2. Food. Need of food for growth, strength, warmth. Effects of eating too mud $\mathrm{m}^{\text {b }}$. or too often. Rules for eating. Proper choice of food. Effect of too much meat Nature's foods for the young. Materials which furnish these.
3.-The Teeth and Sromacif. Trace mouthful of food from plate to stomad ${ }^{\text {b }}$ Importance of good teeth; of chewing food. Loss of saliva in chewing or smoking to
bacco. Evils of spitting. The stomach and gastric juice. Work and rest for the stoIrritating effect of alcohol. Danger of giving alcohol to infants and children.
3. Drinks. Water needed in considerable amount by the tissues. Proper thong and drinks; harmful drinks; drinks that injure the stomach; injurious effect of for mare. Stewed tea; danger that cider, beer, or wine drinking may create the desire Self-control in eating and drinking.
betw. The Bones.-Explain care of bones. Why sit and stand erect. Difference sunt framework of the young and the old. Tobaceo and alcoholic drinks liable to growth of bones.
better and and proper food strengthen, alcohovic drinks weaken between muscle and fat. a. Tobacco and Cigaretre Syohivg in Youth hinder growth and healthy phy-
and mental development: contain nicotine and sometimes other harmful poisons.

Topics Suitable for Chiloren About Nine Years of Age (Grade IV, Nova Scotas).
$\mathrm{D}_{\text {iagrams, }}$ ( $T_{\text {ext-Books, }}$ adapted to grade, in hands of Pupils as additional source of information, rams, Simple Experiments, and Oral Instruction as before.)
"f bo mes. The Framework.-Why many pieces in human skeleton. Diferent shapes Animal and mineral matter in bones. Location of principal large bones. how held together. Effect of tight clothing or ill-fitting shoes.
${ }^{\text {dence }}$ 2. Muscles.-How made up. How they move bones. Sizes and shapes. Tenof musel beer to cause the storing of fat instead of the formation of muscle. Relation and fat to strength.
Preferable Exercise.--Good forms of indoor and outloor exercise; why the latter is poper dress.
Filf, 4. Recepiration.--Air as a purifier. The air passages. Air sacs of the lungs..
itring liep breathing. The advantages of well-developed lungs. How air is polluted.
ing-rooms.
The Cincolation.-Right and left sides of heart. Veins and irteries. Veins that
blood seen. How the blood feeds the body. Need of good food to make good blood.
as an air carrier and a food carrier.
Whinai Tre Brain and Neryes.-Work of brain. How made strong and how rested.
Felf.g the Connection with legs, arms, etc. Alcohol benumbs brain and nerves, on thentrol act more slowly and less accurately, and therefore preventing study.
he grow needed in life, power of alcohol to weaken self-control. Effects of tobacco
$\mathrm{b}_{\mathrm{ut}} \mathrm{a}_{\text {are }} \mathrm{T}_{\text {Only }}$ Senses.--Show that sense organs do not see, hear, taste, touch, or smell,
only avenues to or instruments of the mind. Continte training of senses.
Oil ${ }^{8}$ a, The Skin.-The skin a garment; why it does not wear out. Work of the skin.
ink ing sweat glands.- Danger of cooling off too quickly. Bathing as a preventive of
Perats effect Clothing: proper fit, disposal of weight, protection for legs and feet. Inof alcohol in dilating the vessels of the skin, thus lowering bodily temad rendering the person more prone to dsease.

Topics Suttable for Chimpen of Ten and Lheney Years of age (Grop V and VI Nova Scotis.)
(Text-Bools, adapted to age, in hands of Pupils, supplemented by Diayrouns, simp ${ }^{\text {p }}$ Experiments, and Oral Instruction.)

Foov.-Milk and cegs the mist complete food. Veed of cereal foods. The pind of meat which makes musele. (iocn! value of chcap cuts of meat; of vegetables , ${ }^{\text {pe }}$ fruit. Sources of common foods. Beat ways of prepraring foods. Why food should attractively served. Danger from contaninated water and had milk. How tea sher Fer be made. The cause of decay; Detail work of moulds and alcoholic ferments. "gas ${ }^{\text {S }}$ mentation changes character of sulstances; use of yeast in bread-making. disent food; alcohol a member of a group of poisonons sulbstances. The nature of ded dr especially germ-action; sterilization; antisepsis and sensis. Bacteria, as illustrated plant-diseases, yeast, ete. Tuberculosis. This repeated in VII and VIII.

Digrsion.-The two sets of teeth. The cutting and griading teeth. Booter making fool neeessary for preserving the teeth. Tooth pieks and tooth brushes. Dipher tist's care. Forming taste for healthful foods in childhood. The epiglottis and draw ${ }^{2}$ The gullet. Changes in food in the stomach. The intestines and their blood tertivith How food is used by the museles and other organs. Action of alcohol in retar ${ }^{\text {rim }}$ digestion.

The Blood.-Appearances of blood under microscope. Work of its corpluglifod Clotting. Healthy blood neecessary for strength of body and power of mind sit :and vessels. Canillaries. Meaning of circulation. Relation of good food, pure air, exercise to healthy blood.

The Heart.-Number of beats per minute. Heart like other muscles strengthen id ${ }^{\text {de }}$. by regular exercise. Note effects of violent exercise on heart; Effects of fear: of ithot ness, especially of fever, where temperature rises. Effect on the heart of drinks and tolucco. Alcohol produces irregularity of action, weakens heart.

Respration.-Need of air in the blood. Where the blood cones in ,ontact struct the air. Import:ance of breathing through the nose. "Adan's apple." why air on of windpipe and lungs. Wlasticity of lungs. Change of air in air-sacs. Why airg, breathed is unfit to be re-breat hed. Development of the lungs by deep breathing "forced respiration." by exercise. Avoidance of constriction of chest by tight "int and waist-bands. simple methods of ventilation in the home and schoolroom. and how dust should be a avided.

Body Heat.--source of body heat. Oxygen and burning. Fuel foods. lations of heat by skin. Relation of clothing to bocly heat. Effect of execr warmth. Effects of aleohol in dissipating heat which is valuable to the body.

Excretion. Skin a protection. Cause of corns. Skin as an aid in remo dab dib Waste. Sweat glands. Deposits left on skin in perspiration; consequent need or - - ${ }^{\text {in }}$ ing. Alcohol enlaryes capillaries of skin. Alcohol avoiled by Arctic explorers as Dr. Nansen. Formation of hair and nails; use and care. Why the hair ne clealines quent washing. Proper time for washing and bathing. Importance of cleap lifed for underelothing, and of bedding. Need of waste matter being properly expelle the body and not retained. Cultivation of good habits in this respect.

## The Senses.

1. Siger.--Pleasures derived from it. The eye: shape, bony socket and of fat; muscles; tear-gland; lashes; lids; pupils. Danger in reading in too light or by twilight, when lying down, or when the eyes smart. Avoidance of small and poor paper. Uncleanliness and "sore eyes," touching eyes with dirty fingers. from public wash-basins and public towels.
2. Hearing.--Outer parts of ears. Danger from blows or pulls. from draughts and strong wind. Danger of picking ear.
3. Smell-Where the sense is located. Nerves of smell. Dependence of pition mals upon smell. Connection with taste. How affected by colds. Use in detect. of foul air, gas, etc.

Wue ${ }^{\text {4. }}$ Taste. - Importance to digestion of savoriness of foods. Note, especially the
Huce, cress, nasturtables, as contrasted with full-grown ones; of salad pspecially the ${ }^{6}$ ha, the taste for tium; of young peas and young beets, green beans, etc. (In Nova on educated. In many partice things that are so casily available in summer needs Where. be developed in parts, people know only potatoes and turnips. This topic 5 Nerves of taste. By what effected, How duiled eforts). Use. Papille of buych. Touch.... ${ }^{5}$.
is desirable and necessary for work. Such delicacy impaired by alcohol delicacy of tur $T_{\text {HP }}$ NED
bilm and motion System.-The bain as a receiver and director of messages. Cere
bink thig to brain. Cerebrum, the organ of thought. Relation of attention and clear *) to recognize warnings of the senses, and to take p. Alcohol weakens power to Al cohol the cause of many accidents on land and sea. $^{\text {precautions against dan- }}$
 Diagrams, Models, and Experiments).
Pond Ptored Prest Physiology.-Sprouting and growth of plants: necessary conditions. the seed. Pla seed. Plant respiration, oxidation, and work. Parts, structure, organs $)^{4}$ he a Pready Plant digestion. Plant and humom physiology compared. Cells. Tissues.
${ }^{6}$ cells. Effect in the Nature Study Course. Viplain Organs. Systems. Health Effect of alcohol on plant life.
My in
Framework.-Vertebral column the axis of the body. Relative position of
mand ge in and animals. Correspondence of leg and arm bones. Purpose of elastic of children. The shaft, cancellous tissue, red and yellow marrow of bones; soft Joints; hinge, ball and socket joints.
Pors. Moscles.-Voluntary and involuntary. The stronger the muscles, the more Becomplished. Alcohol decreases muscular power and consequent working abilibeen wine, and cider tend to lessen precision of muscular movenents. How proved by experience and laboratory experiments.
Pan 4. Kespiration.--Breathing organs of land and water animals. Nasal passages, beme Vocal cords, trachea, lung structure. Pulmonary circulation. Respiratory modioduced; diaphragm and chest walls. Chest and abdominal breathing. Voice: ${ }^{\text {mp }}$ of to dits training. Results of insufficient ventilation of rooms. Causes conrsulisease of air-passages and lungs; over-crowded, poorly-ventilated houses,
drinks, dep, insufficient food and clothing, lack or on-dong exercise. Effect in ${ }^{5}$ Orinks, depressing vitality and causing proneness to lung disease. $^{5}$

C Mromlation.-Valves and structure of right and left side of heart. Valves heart structure Meds of checking bleeding. Nose-bleeding also, how checked; Ilands Digestive System.--The alimentary canal: parts, structure, and pro-


Digestion.--Amount of food: as affected by age, activity, occupaetc. Preparation of food; reasons for cooking. Importance of regularity
moreid forlion in eating; of careful mastication.
Matter. -Of fat, albumen, sugar. Storing of sugar, of fat. Use made of
 on of Classes of foods: nitrogenous, or albuminous, starchy, fat, and ailk, each supplies to the body. Food material in cereals, vegetables, fruit, ruit, stale vegs. Unwholesome foods: indigestible food; unripe, over-ripe, or selection of food.

Beverages.-Water: forms found in Nature; necessity for water in the kinds: spring, well, rain, river, salt, mineral, hard, soft, impure; principal sources ${ }^{0}$ ply: and dangersof drainage, especially in gravelly soils with clay bottom, where wre very easily contaminated; rain, wells, springs, rivers, lakes; importance of pins: and pure ice supplies. Tea and Coffee: sources, properties. Nourishing drinh d chocolate, cocoa, and ceroal drinks; when most useful. Non-alcoholic refreshing dra lemonade, orangeade, these acid drinks, it should be noted, should not be flo accompaniments to starchy foods, unfermented fruit juices, fruit syrups. of of of drinks: why not classed as foods; effect upon digestion; upou other functions body.

Excretion.-How waste materials are formen in the body. Organs that waste; skin, lungs, kidneys, liver, and large intestine. Jmportance, size and of the kidneys; connection with circulation; separation of waste. How the moves waste. Hygiene of liver and kidneys: how affected by alcoholic drinks.
7. The Nervous System.-Harmonious action of organs. Brain the controlling organ. Co-operation of nerves, spinal cord, and ganglia. The symp nervous system. Reflex action. Habit. Nareotics; alcoholic drinks, tobacco, opeo effects upon the nervous system; dangers of moderate use. The selfishness and $\mathrm{a}^{\text {n }}$ of the tobacco habit. Thirst induced by tobaceo may lead to the habit of dr

First aids to injured, to drowned, to fainting persons.
Nature of disease, especially germ-disease, preventives; symptoms.

## Additional Suggestions.

Writing. From the second or third grades insist on arm-movements movement upon the pad of muscle on the forearm). During the period in ${ }^{6}$ child is learning to fix the shapes of the letters, no care need be taken as to whl ment he uses in so doing. There is no good reason why the copy-book shou used; it is of considerable value in providing model forms for the letters, ${ }^{\text {a }}$ height. There its value ends. Fluency or freedom of movement will not be to through copy-book use. The eye must be with the pen if the writing is to
and free, so, practice-paper, loose scraps, wrapping paper and lead-pencils, materials for practice for fluency.

The arm-movements will achieve quicker results by following some system. least, there are about ten units of form out of which to construct our small letters these units ought to be practised, especially in rhythmic fashion.

In the arm movement the radius of activity of the pen-point is not the teacher should not ask for big letters. Shading and flourishing should be aged, and the whole stress should be thrown upon three essentials:
(a) good, legible forms of letters.
(b) uniformity of height.
(c) uniformity of slope.

The vertical is undoubtedly the hygienic form: but teachers should not in ${ }^{\text {te }}$ too much with the pupils individuality in this respect, providing there is uniform his style.

Drawing. The Augsburg books have done a good deal to make Drawing tractive task. The new Prang books are even more taking than Augsburg's the objection to either series is their considerable cost.

Hygiene. In hygiene it would be best to follow the general plan given on pp of of the October, 1909, Journal. Some omissions might be made of matters nical physiology, and some valuable additions likewise. The syllabus of hygie encourage the teacher to prepare lessons instead of inclining her to prescribe ${ }^{\text {a/ }} \mathrm{i},{ }^{\text {, }}$ purage the te. Whenever possible she shinstead of inclining her to prescribe pupils to recite. Whenever possible she should follow the nature-study ${ }^{\text {ne }}$ the appeal to the observing faculty of the pupil.

# HEALTH ORDERS AND INFORMATION FOR PUBLIC SCHOOLS. 

 TO SCHOOL TRUSTEES. (Dust and Dirt in the Schoolroom.)${ }^{d}$ Phst, ansicians and scientific men have for years been studying 8cho and its effect in causing disease. They have gathered it in it under public buildings and dwellings houses, have examined will gro the microscope, added it to substances in which germs diferew, have compared these germs with those known to cause Mrriers.

The finest and lightest dust which cannot be seen by the eye, or can only be seen as motes when a beam of sunshine through the room, is by far the most dangerous.
Many scores of times the dust collected in various places has or administered to animals (fed to them, injected into the lungs accordithe skin), with the result that sickness or death followed cording to the germs present.
that It is well-known that consumption of the lungs (tuberculosis), 4nd in great scourge of the human race, is spread by means of dust, cons hardly any other way. The dust of a room in which a asimplic pre has been spitting about the floor is more deadly than causes or strychnine, and injected under the skin of an animal bo by it to die of tuberculosis in a few weeks. If the dust is breathdie. a human being, he is very likely to contract the disease and
${ }^{V}$ 隹 $\begin{aligned} & \text { Other disease germs are carried in the same way, and it has }\end{aligned}$ bygers or happened that dust carried to a child's mouth by his Ph case breathed in from the air has formed the starting point Physician of fatal illness without the parents, or perhaps even the cian, suspecting the true origin.
for $N_{0 r}$ is this all. Dust in any form, breathed in day after day
himears, irritates and inflames the delicate tissues of the child's ${ }^{2}$ fgs, until like a well-ploughed, well-manured field, they become thead of growing ground, so that when germs are inhaled, inflo being starved out as they often are in healthy tissues, ourish exceedingly and the child sickens, suffers and dies.

These are not dreams but facts, proved many times over by men whose whole lives are given to studying and fighting disease and I would earnestly ask your sympathy and help in seeing thas the following rules are observed, and if we succeed in prevertin? even a little sickness, and in saving even one life, we shall hart had our reward.

## Directions for the Cleanliness of the Schoolroom.

I. Have the Schoolroom, Halls and Entries swept every daf. Note.-Every good housekeeper sweeps her house every day. How much more necessary is it in a building where many children are crowded together fol six hours a day, and into which dirt and germ are dragged from every part of the section.
II. Raise the windows while sweeping, and keep them raisd for some time afterward.

Note.-By keeping the windows open much of the dust will blow out.
III. Before sweeping sprinkle the floor with damp saluduli' don't use water.

Note.-Sawdust is the best substance, and can generadl' be easily obtained and kept in barrels. It keeps the dust from rising and settling again after the room is swept. Sprinkling with water simply binds the dust to the floor, ready to rise agair soon as dry.
IV. At least an hour before school opens the schoolroom should be carefully dusted, especially the tops of desks, seats, window ledges etc.
V. The schoolroom should be thoroughly scrubbed at leart every month.

Note.-If scrubbing, perhaps every week, is necessary in our homes, how much more so in our scho ${ }^{0}$ rooms, where there are so many to drag in dirt Besides, dust is even more dangerous to childrer than to grown persons.
VI. Once a year the walls, floors, desks, etc., should, after being
scrubbed, be wetted over with a mixture of carbolic acid and water,
tour teaspoonfuls of the acid to a pint of water.

Note.-Such a cleansing of the schoolroom would kill all germs, and if this could be done at the Christmas vacation (germs are more virulent in winter) it would go far toward the health of the school.

## To Teachers.

Post a copy of the "Health Rules" for Pupils where it can be
easily read.
for Give a series of short lessons on these rules and the reasons
Cefereck the practices therein condemned. Make frequent
then Read carefully the "Circular to Trustees"-talk it over with and assist in carrying it out.
the Try and persuade the physician of the section to impress upon ${ }^{2 d} v_{0}$ ratepayers the connection of dust and dirt with disease, and to ${ }^{0} 0 \mathrm{~m}$,

Get aee that the water bucket is thoroughly scrubbed every week. a cover for it in order to keep out the dust.
sch The carrying out of the directions for the cleanliness of the on ourm and the health of the pupils depends almost entirely Put in. Let your own desk be a model of cleanliness and neatness. a thele in practice yourself the rules given for pupils. Your exthale in these respects will carry more weight with the pupils anything else.
Fhad Should your schoolroom become dirty, or the outbuildings of premises be in an unsanitary condition, through the neglect bisectrustees or those in charge, do not fail to report to your tor at once.

## NOTES ON "HEALTH RULES FOR PUPILS."

explain following brief notes are given so that the teacher can and apply the rules more intelligently.

The germs which cause tuberculosis (consumption), pneumonila la grippe, diphtheria and many other diseases, are found in the saliva, especially when mixed with secretions or discharges frotil the nose, throat or lungs. It is not uncommon for these diseases to exist in so mild a form that the child is hardly sick and yet such cases are capable of spreading the disease. The spit mixes with the dust on the floor, becomes dry, the germs are set free, rise il the air, enter the lungs and cause the disease.

Children are not careful as to what they handle and the ir chances of acquiring disease are much increased by putting their fingers into their mouths.

The long passage from the nose to the lungs gives off and ${ }^{\text {is }}$ constantly wet with a sticky secretion, the object of which is to strain the dust, disease germs and other foreign substances froul the air before it reaches the lungs. It will be readily understood that this secretion, even from a healthy person, might contail disease germs.

Both paper money and coins are capable of carrying danger $0^{15}$ germs. Remembering that money is frequently handled by pers sons affected with the most loathsome diseases, the necessity this rule will be at once understood.

The intelligent teacher will be able to apply the princip ${ }^{j e^{5}}$ given above to all the rules, and show the pupils the great neces ${ }^{5 \mathrm{tit}}$ of observing them.

## Children should be Taught

to wash the hands and face often, and keep their persons and clothing clean; for if one should then be taken down with a cotlo municable disease there will be less danger of infecting other pupil or things.

They should also be taught the reasons of the following rules, and carefully watched and directed until all objectionable ha ${ }^{\text {bit }}$ are lost and replaced by good habits. This duty is really the ${ }^{\text {no }}$ 年 important work of the teacher, and should be done even should the teaching of the book lessons be delayed.

## Health Rules.

To Be Placed in Every Class Room and Given to Every Puprin
Remember These Things.
Do not spit if you can help it. Never spit on a slate, floos or sidewalk.

Do not put the fingers into the mouth.

Do not pick or wipe the nose on the hand or sleeve.
$D_{0}$ not wet the finger in the mouth when turning the leaves of books.

Do not put pencils into the mouth or wet them with the lips.
$D_{0}$ not put money into the mouth.
$D_{0}$ not put pins into the mouth.
Do not put anything into the mouth except food and drink. $f_{\text {ood }} D_{0}$ not swap apple cores, candy, chewing gum, half eaten , whistles or bean blowers, or any thing that is put in the mouth.
Do not drink out of the common drinking cup before allowing some of the water to run over the edge of the cup that is to be ${ }^{\text {applied to the lips. }}$

Never cough or sneeze in a person's face. Turn your face aside
and Keep your face and liands clean; wash the hands with soap water before each meal.

> A. P. REID, M. D.,

Provincial Health Officer.

From The Provinclal Health Officer's Report 1909.

## SMALL POX.

The public are loath to recognize the fact that small pox has vince or oth and is likely to remain until all are protected by vaccination ${ }^{5}$ other wise; and the sooner that protection becomes general the with will the disease be eradicated, and this is specially needful be children-the earlier the vaccination the more protection will ${ }^{0}$ onferred.
for $N_{0}$ child should be allowed to attend school unless protected, Hany reasons; and the efforts of the City Board of Health of arly $\mathrm{f}_{\mathrm{a}}$ have encountered much unreasonable opposition, particubit from the anti-vaccinationists. These people may be sincere, or they are ignorant of the experience of the world on this subject, east misinformed.
To the end that all objections should be definitely and correctly 2hswe the end that all objections should be definitely and correctly
hed the following letter was sent to the Chronicle, Herald
Recorder, which was duly printed and distributed. Prejudice trationten quite uninfluenced by argument, and even by demonPriticip; and to combat it continuous effort is needed on the that "the steady drop will pierce a stone."

LEITER TO THE PRESS.
Middleton, N. S., May 8 th.

## Dear Sir:

I have been an interested though unconsulted observer of the discussion on this subject, and it appears to me that there are some facts that were not prominently enough brought forward, and with your permission I will summarize a few.

1st. In the unprotected, small pox is the most painful, loat th some and fatal disease that affects humanity.

2nd. Of late years it has been mild in character, presumably due to inherited protection not yet dissipated, but liable at $a^{\text {al }}$ time to break out fiercely.

3rd. An attack of the disease confers immunity in some for life, but this protection diminishes in time.

4th. The Arabians discovered that inoculated small pox ${ }^{135}$ much less fatal and conferred immunity, and this practice at one time was in vogue, and so continued until-

5th. Vaccination was discovered by the immortal Dr. Jedner, which confers equal protection with small and harmless constith tional disturbances, and is only propagated by direct inoculation

6 th. Over 100 vears of expericnce of this procedure in every clime, with all classes of people, has demonstrated its reliability.

7th. After 50 years of personal experience, I cannot recall ${ }^{8}$ case in which injury resulted, and such has been the result wit my confreres as far as I can find out.

Sth. If it did not produce some constitutional disturbance ${ }^{\text {it }}$ would be useless, and it has no effect on those who are protected.

9th. Deaths have occurred after vaccination as it may after any scratch or injury. Clear proof of its having been the cause ${ }^{\text {is }}$ disputed. Post hoc ergo propter hoc is not always a reliable cond ${ }^{1{ }^{11}}$ sion.

10th. Small pox is the only disease over which we have $\mathrm{cos}^{15}$ trol.

11th. Why not control it?

12th. A protected community can ignore small pox, and as well
aprotected individual can travel or expose himself with impunity.
immunity. Vaccination of infants gives protection for life and an and wity for a more lengthened period than in the case of adults, why should a parent refuse this boon to his child?
to ${ }^{14}$ th. Leaving science protem for society, a red rag may fail the Brouse a combative bull, but compulsion rarely fails to arouse Briton to combative energy.

15th. But like the mettled steed when broken to harness, he ${ }^{\text {Can most }}$ mitficiently place his weight in the collar, so our average ${ }^{4} \mathrm{i}_{0} \mathrm{o}_{\mathrm{n}}$ ar can carry out effective citizenship. Inter alia. Confedera\& ${ }_{c}$ aroused most intense opposition, conscientious scruples, \&c., the But to-day are there more ardent or effective upholders of B. N. A. Act than our whilom anti-confederates?

16th. Their response: the thing was wrongly done.
17th. But again there was no other way to get it done.
18 th. If a thing be right, let it be done.
Forld 19 th. That vaccination is right we have the experience of the Ously to confirm; also that of the medical profession who strenuprovincposed it for years. Again the health officers over the lects fre for years past always report to me that vaccination pro${ }^{6} \mathrm{com}_{\text {s }}$ from the form of disease now prevalent, and a similar report ${ }^{\text {countries. }}$ from the other provinces, the United States and other
be ${ }^{20}{ }^{20 t h}$. A child in ordinary health, able to run about, will not
"eather,', by vaccination -it may for a short time "be "nder the somether,' while the virus is producing within its constrtution a ething which will give it protection from small pox.
${ }^{b_{\text {eif }}}{ }^{2} 1_{\text {st }}$. With the care now used there is no fear of any disease conveyed by the vaccine-and but little in any case.
$s_{0} 22_{n}$. Were the risks ten times as great there is no comparithe between it and an attack of virulent small pox. I have had vaceperience, modified to some extent by a long antecedent idation.
Whe ${ }^{23 r_{d}}$. An unprotected person is a menace to a community
$0_{0}$ Indall pox is rife. He may carry disease within himself that infection can eliminate and, protem, should be ostracized.

24th. The duty of the Board of Health is to protect the comb munity from disease, and special attention must be given to schools and assemblages, and a conscientious scruple is no bar to conveyance of disease.

25th. We must recognize the right of a person to contract small pox or any other disease if he so wills it, but he has no right to impose it on another or to cause another to run any risk, and the duty of the Board of Health is to minimize this risk.

26 th. Their effort to have all children vaccinated was dictated as much in the interest of the child as of the community, and ${ }^{\text {a }}$ well to have the schools kept open and courses not interfered with during the recurrent small pox visitations that we are going ${ }^{\text {to }}$ have intermittently until all are protected, when, and when only, it will die out.

27th. The present disease in many cases produces less cort stitutional disturbance than vaccination. Why not have it inst $\mathrm{t}^{\text {ead }}$. There are two conclusive reasons against it:-it does not protect to the same extent as does vaccination, and it keeps up disease and illness in a community and makes that community a menace ${ }^{\text {to }}$ others which vaccination does not.

28th. A conscience scruple clause is impracticable, however desirable it may be, and a Board of Health must carry out claus $22,23,24,25$, \&c., of the Public Health Act, as to them on dul consideration seems best to meet the situation.

## A. P. REID,

Chief Health Officer.

## THE VACCINATION LAWS.

[COPY.]
Dear Sir:
Halifax, 5th August, 1909.
Referring to your letter of 12 th ult. to the Provincial Secretar ${ }^{\prime \prime}$ in which you ask the following questions, viz:

1st. How far does the Public Health Act go in preventing unprotected children from attending school?

2nd. How far does the Public Health Act go in effectively carrying out general vaccination?

3rd. How far does the Public Health Act go to prevent entry of unprotected immigrants?

I am directed to inform you as follows:
1st. The Public Health Act, Section 22, provides in effect that if any infectious plague, disease or distemper has been introplace or there is immediate danger of its !introduction into any rege, the local Board shall assemble immediately and may make that ations as occasion requires, etc. Section 45 provides in effect or a local Board may direct a general vaccination in any district ${ }_{B}$ part of a district, etc. I think these clauses give each local tion. Sufficient powers to direct and carry out a general vaccina-

I think. Section 22 of the Public Health Act, above referred to, protet enables a local Board to pass a regulation to prevent unprotected children from attending school.
${ }^{2}$ regrd. That section also, I think, enables a local Board to pass tected rition providing for the quarantine after landing of unproected immigrants until they are vaccinated.

Yours truly,

FRED. F. MATHERS,

> Deputy Provincial Secretary.
$D_{\text {R. A. P. Reid, }}$
Prov. Health Officer, Middleton.
[From the Education Report, 1909.]
From Table;XIV it appears that not one-half of the children public ing school are vaccinated against smallpox. And we find demic health officers closing schools on account of threatened epiI called; and public money is drawn for the school time thus lost. ${ }^{2}$ so sod attention to this conduct last year; and recommend that regle well proven a preventive as vaccination is being so generally accocted, no allowance henceforward be granted to schools on 2n unt of the time they may be closed for fear of small pox. It is Public for the public good at some personal sacrifice, to see the cautio funds utilized in encouraging the neglect of the same preon the part of others.

Medical Inspection in the Halifax City Schools, 1909.
Dr. Allan R. Cunningham, Medical Inspector, reported ${ }^{\text {as }}$ follows:

In addition to the regular inspections, in September and October we have had to cope with an epidemic of diphtheria, and during these two months I personally examined the throats of over six hundred school children of the primary grades; excluding from school attendance any showing the slightest abnormality. Several of these cases subsequently developed diphtheria, at a safe distanct from school, however. In all the schools instruction was given ${ }^{2 s}$ to the best methods of prophylaxis, \&c.

As we use the card catalogue system the first issue of tell thousand cards was exhausted during this year and ten thousand more have been printed on a somewhat improved pattern.

The low percentage of deformities and pulmonary tuberculos ${ }^{\text {is }}$ is evident, but the latter disease usually does not develop till puberty, and the way has been prepared by adenoids, enlarged tonsils, carious teeth, etc.

We have observed that poor illumination of a school room ${ }^{\text {ha }}$ a decidedly injurious effect on the eyesight of the pupils, sometimes over $15 \%$ being unable to pass the test.

Like every other advance in civilization, the school inspector at first met with considerable opposition. This is now past and the majority of citizens are anxious to have their children examined being at no expense. At least $60 \%$ take action when the delicate information is conveyed that the child is abnormal in some respect. Unfortunately many are absolutely indifferent to the welfare of their offspring. They are notified time and again but each examinatiod shows the child gradually becoming more deficient physically and mentally. Fxpense is no excuse, as such cases can be treated free of charge, at the Dispensary or Victoria General Hospital.

> I remain, Sir, Yours respectfully, $\quad$ Allan R. CUNNINGHAM. Halifax Schools-Physical Record. Number examined 3182.

Anæmia.................... . . 33
Enlarged Glands . . . . . . . . . . 217
Chorea....................... . . . 11
Card. Dis................... . . . 3
Pulm. Dis.................. . . 5
Skin Disease. . . . . . . . . . . . . . 13
Deform. . . . . . . . . . . . . . . . 8
Defective Vision. . . . . . . . 208
$20^{5}$
Inflamed Eyes ..... 69
Defect. Hearing ..... 21
Discharging Ears ..... 136
Def. Nas. Breathing ..... 1
Deformed Palate. ..... 210
Hyp. Tons ..... 85
P. Nasal Growths ..... $32^{5}$

Dr. F. V. Woodbury, Medical Inspector, reported as follows:-
Aside from the regular inspection of the year, it was found decessary to take special measures for the control of epidemic of heases. This consisted in the individual examination of hundreds lettealthy pupils and suspected cases, preparation of circular the ters, and special instruction to teachers and pupils for preventing belopread of infection. This work is not shown on the table given

During part of the session it was necessary to suspend work porthe regular examination because of the absence of a large proportion of the pupils, on account of disease or fear of vaccination, requently the very ones we wished to reach.

The work of the regular inspection covered 2158 pupils in severn schools only three having been omitted. The examination on soen more searching and the figures are therefore a little higher some diseases.
The results in tabulated form are as follows:-
70
eformities require attention and many are alrcady under treatment.
Eighty-two pupils were under treatment at the time of the
examinnation. One hundred and thirty eight parents were recommemination. One hundred and thirty eight parents were recomded to consult their family physician about their children.
Treatment adopted as a result of previous work 71.
${ }^{\text {done }}$ The advertising work of the anti-tuberculosis League has of the much to make the parents understand and appreciate the work Practicallical Examiners. Opposition to the inspection having Who hally ceased, and expressions of gratitude from the parents their have had their attention directed to abnormal conditions in proved children are not uncommon. This s encouraging. Imeven methods will make the examination in the coming year More effective.
Defective Hearing ..... 31
Discharging Lars ..... 12
Defective Nasal Breathi'g. 103
Deformed Palate ..... 2
Hypertrophied Tonsils ..... 291
Post Nasal Growth ..... 97
Defective Vision ..... 298

It will of course be understood that several of these conditions

Very frequently recur in one child. The great majority of cases do
Hot requently recur in one child.

## The Anti-Tuberculosis Campaign.

Instead of publishing further information in this Journ ${ }^{A^{L}}$ which is already excessively full, teachers and others are directed to send a card to "The King's Printer, Halifax, N. S." asking for a copy of the "Public Health Circular No. 27"' and it will be sent promptly and free. In contains about thirty pages of the latest information respecting the treatment of Tuberculosis.

The White Demon.

## And Hove to Fight it

is the title of an interesting "fairy story" which can be read understood by children, showing how "Consumption"' is being treated in Ireland, where it is hoped to become extinct as lepros! became in 1767 after a fight of about a thousand years. Typ ${ }^{\text {phs }}$ fever is a later disease which has just been exterminated. 5 by 7 inch book of 112 pages was written by F. E. Eaton, with "foreward"' by the Countess of Aberdeen; and is published by Maunsel \& Co., of Dublin, $-/ 4$ net to pupils in National Schoo ${ }^{-1}$ (Ireland, $1 /-$ in cloth.

## SCHOOL GRANTS AND HEALTH.

Education Act, Chapter 52, R. S., Nova Scotia, 1900, $\mathrm{Sec}^{\circ}$ tion 108.
"The Superintendent may, with the sanction of the Council, withhold in whole or in part the provincial grant from teach ${ }^{\text {the }}{ }^{5}$ who are remiss or inefficient in the discharge of their duties, and the grant from the Municipal School fund from sections failing to $\mathrm{m}^{\text {ate }}$ reasonable provision for the health, comfort and progress of the children attending school.'

Both teachers and trustees are therefore held by the law ${ }^{\mathbb{R e}^{0}}$ sponsible for good health conditions to the extent of the $105^{5}$ a part or the whole of the public funds provided for them und ${ }^{d e h}$ regular conditions.

It is the teacher's duty specially, to watch not only the health conditions of the school, but of the school section and the country in so far as they may tend ultimately to effect the school.
Medical and Dental Inspection of Pupils in Rural scho ${ }^{\text {an }}$
The extracts made above from the reports of the medical and ontal inspectors of the pupils in the Halifax Schools, are for the

Purpose of aiding teachers, trustees and parents throughout the Country, to think of the great importance and the little cost of arranging, as the law now allows school boards to do, to have the children in the school examined once or twice each year by the best medical man in their neighborhood.

The small cost for which this can be done all over the country is nothing compared with the amount of lifelong suffering which thay be obviated in the case of a few in every school, and the added Years of healthy life which are likely to be secured for many of the pupils. This is really more necessary in the country than in the towns where doctors and dentists are always within easy reach. But even in Halifax, with all these ardvantages at a maximum, there have already been hundreds of boys and girls saved, who Whk nown to their parents were unlergoing physical degeneration still would soon have made life a burden, or cut it short. And Hot a greater number not knowing what was wrong with them, or success, king that a serious menace to health, vigor and future attention, had already set in, had their attention, and their parents' spendion, called to their condition in good time. When we are how much moch money in bringing foreigners to fill up our country, hecessary more should we be willing to spend the small amount and vigat to keep our own sons and daughters alive, in good health vigor.
let tharents! discuss this at your next annual meeting. Don't Your me month of June pass without considering it. Authorize and trustees to arrange with the best local medical man to inspect lowing reprt upon the health of each pupil at school. At the folreport annual meeting pay close attention to the medical officer's receive and see, even if you have been so fortunate as to have Childred no benefit on account of the perfect health of your own for ${ }^{\text {ren }}$, if there will not be several cases in which candidates Vigorous aken-down or weakened life have gained a chance for a $v_{a l u}{ }^{2} 0 u_{s}$ and useful life. Each such saved boy or girl is of more own than a foreign immigrant---very much more, for they are our helpers. people. Instead of being invalids on our hands, they will be bagatel. The cost of these precautionary measures, will be a mere section.

Deople Ar Act is merely permissive, assuming as it were that our Which are intelligent, and have been simply waiting for an Act tion. would give them the legal power to arrange for the inspecinterests school sections are so inert, or so blind to their common of the Lest, as to neglect such a provision; it may become the duty Legislature to make such inspection imperative.

The legislature of British Columbia has just taken this step, and is therefore considerably in advance of Nova Scotia in the matter of tolerating inaction in so important a matter as the cort servation of the public health in the schools. For the full information of all concerned the British Columbia law, passed only two months ago, is given below.

> CIDAPGR m, (RRITSH COLUMBAA).

An ACt to provide rom the Medical Inspection of Schools.

$$
[25 \text { th Felruary, } 1910 .]
$$

His Majesty, by and with the advice and consent of the Iegislatite Assembly of the Province of Dritish Colmblia, enacts as follows:-

1. This Act mav he cited as the "Schools Health Inspection Act 1910.'
2. The School 'Trustecs of cvery City and of every Rural Munici pality School District in the Province of British Columbia shall app $\mathrm{p}^{\mathrm{opm}^{\text {ip }}}$ one or more School Health Inspectors, shall assign to cach Inspec ${ }^{\text {cil }}$ the schools to be inspected, andid shall provide them with proper ads ities for the performance of their duties as Ilealth Inspectors of selow and School Children.
3. The Provincial Board of Health shall appoint, in districts sfatit $^{\text {dit }}$ side cities or municipalities, one or more School Health Inspectors, stide assign to each Inspector the schools to be inspected, and shall pro ${ }^{\text {meat }}$ them with proper lacilities for the performance of their duties as Hea Inspectors of Schools and School Children.
4. School Health Inspectors shall be duly qualified medical $p^{\text {rac }}$ titioners: Provided, however, that the Provincial Board of Health ${ }^{\text {nal }}$ from time to time appoint persons other than School Health Insp) ${ }^{\text {ec }}$ tors to perform such duties as the said Board of Health may dee ${ }^{\mathfrak{I l}^{12}}{ }^{10^{-}}$ cessary or expedient.
5. (1.) Every School Health Inspector shall forthwith uporn ${ }^{\text {nis }}$ appointment, and thereafter at least once in every school-year, or ofter tel if required by the School Trustees, make a thorough examination ${ }^{\text {a }}$ to the general health of all children attending school in the District which he is such Inspector, and of all teachers and janitors in such pis $^{\text {is }}$ trict. He shall also carefully examine all school buildings and sch $\mathrm{h}^{00}$ surroundings in his District, and shall report to the Board of Sch ${ }^{00}$ Trustees, fally and in detail, the result of such examinations. In sud report he shall state whether or not he considers that the condition health of any child, children, teacher or janitor (naming them) is ${ }^{5 \mathrm{su}}$ as to endanger the health of the children at such school, and shall ${ }^{\text {sel }}$ forth its recomendations as to the school buildings and school sur roundings.
(2.) The Board of School Trustees for the District shall forth

With act upon such report, and shall restore from the school any child Health In en, teacher or janitor whose health is so reported by the School such ehinspector as being dangerous to hidden in such school, and to school in chicken, teacher or janitor shall not be permitted to return of School in such District unless and until he or they deliver to the Board In shool Trustees a certificate in writing, signed by the school Health Inspector for the District, permitting such return.
6. The School Trustees of crecy School District in the Province Shall cause every child in the Public Schools to be separately and carecongested and examined at least one e in very school-year as to the Phydition of sight and hearing, of throat and teeth, and as to any other of tical disability or defect liable to prevent his receiving the full benefit or bis school work, or as to whether he requires a modification of the school and in order to secure the best educational results. The tests of sight ind hearing may be made by teachers having authority from the ProvSteal Board of Health. The School Trustees shall cause notice of any Such defect or disability requiring treatment to be sent to the parent or guardian of disability requiring treatment to be sent to the parent or kept in such form as the Provincial Board of Health shall prescribe.
7. (1.) The School Trustees, or teacher in charge, shall cause to duly reared to a School Health Inspector (who in such case must be a qualified physician) for examination and diagnosis, as follows:(a). ni Every child returning to school without a certificate reconused by the local health authorities after suffering from or being exposed to any contagious or infectious disease:
(b)

Every child who has been absent on account of illness or from unknown cause:
(c). Fiery child who shows signs of being in ill-health or suffering from contagious or infectious disease; unless he is at once exeluded from school by the teacher:
(d). No child so referred to the School Health Inspector shall be permitted to return to school unless and until he delivers to the teacher in charge of the school a written certificate, signed by the School Inspector, permitting such return.
Soho ll (2) In the case of schools in remote and isolated situations the carustees or Teacher may make such other arrangements as may y out the purposes of this Act.
Whenever a child shows symptoms of smallpox, scarlet fever, chickenpox, tuberculosis, diphtheria or influenza, tonsilitis, cough, mumps, scabies, ringworm, trachoma, or any other or infectious disease, he shall be sent home immediately by in charge of the school, or as soon as a safe and proper conce can be found, if such is necessary, and the Local Board of Health School Trustees shall at once be notified by such teacher.
9. The Porvincial Board of Health shall prescribe the directions for tests of sight and hearing and shall prescribe and furnish forms for test cards, blanks, record books and other useful appliances for cary yids out the purposes of this Act.
10. The School Health Inspector shall have supervision over all physical exereises of pupils attending sehool and in special cases ${ }^{1120]}$ modify or prohibit such excreises.
11. The School Health Inspectors appointed under this Act in cities and municipalities shall receive such remuneration for their ser vices, by salaries or fees, as may be agreed upon by the authority ap pointing them, and such remuncration shall be deemed to be part ${ }^{\text {ol }}$ the general expenses of the School District, and shall be raised and ${ }^{\circ}$ lected in the ustual method of raising school funds.
12. It shall be the duty of the School Trustees of each School Dis trict to see that the provisions of the "Health Act'" are carried out ${ }^{\text {a }}$ regards the pupils attending school in their District.
13. School Boards of City and Municipal School Districts maty pass by-laws and regulations for the better carrying out of the provision of this Act, but the approval of the Provincial Board of Health shall ${ }^{\text {bx }}$ procured to such by-laws and regulations before they become operatite.
14. All appointments made under the provisions of this Act School Trustees must be made subject to the approval of the Provinc Board of Health; and the dismissal of officers appointed by School Board tese hereunder must be subject to confirmation by the Provincial Boad of Health.
15. An annual report shall be made at the termination of ereft school-year by the School Health Inspector to the Provincial Board Health; such report to be in such form as the Provincial Board of $H^{2}$ may require.
16. The Provincial Board of Health may demand at any time ${ }^{3}$ report from any School Health Inspector on the health conditions of the children attending any particular school or schools, or on any other $\mathrm{col}^{15}$ dition in or around the school which might influence the health of the children.
17. An annual report on School Health Inspection shall be prepared by the Secretary of the Provincial Board of Health and submitted dijs the Honourable the Provincial Secretary for presentation to the lature every year.

## THE STRATHCONA TRUST.

## Por the Encouragement of Physical and Military Training in Public Schools.

1. This Trust is admumstered by an Executive Council for the Dominion which
each Province.
2. The local committee for Nova Scotia has been constituted as follows:-

Waritime Chairman:-Brigadier-General C. W. Drury, C. B., A. D. C., Officer Commanding
time Provinces Command.
Members:-Rev. John Forrest, D. D., LL. D., President of Dalhousie University. Joseph A. Chisholm, Esc., M. A., LL. B., Mayor of Halifax.
Graham Creighton, Esq., B. A., Inspector of Schools.
Lieutenant-Colonel W. E. Roscoe, 68th Regiment, Kentville.
Captain R. H. Graham, 78th Regiment, New Clasgow.
Captain A. H. Borden, The Royal Canadian Regiment, Halifax.
Secretary:-Captain A. H. Borden, Headquarters, Halifax.
tion of Subject to the conditions of the donation, and the decisions and general direc-Iollows:- Dominion Executive, the duties of this local committee have been defined
${ }^{4}{ }^{\text {aijlable }}$ (a) Ensuring that the means of instruction in physical and military training are for both teachers and pupils, where required.
(b) Division of the Province into convenient districts for purposes of supervision competition.
(c) Arranging details of the training to be given, so as to suit local conditions.
then ${ }^{4}$. The following are the general principles in accordance with which the Trust administered:
${ }_{t h}(a)$ His object being not only to improve the physical and intellectual capabilities
the the children, by inculcating habits of alertness, orderliness and prompt obedience, but Wixion bring up the boys to patriotism, and to a realization that the first duty of a free bote ph to be prepared to defend his country, the intention of the Founder is that,
both pexysical training and elementary drill should be encouraged for all children of of militandending public schools, especial importance is to be attached to the teachWhijg ridilitary drill generally to all boys, including rifle shooting for boys capable of at All boys should, so far as possible, be made to acquire a fair acquaintance, chool, with military drill and rifle shooting.
${ }^{\text {leachers }}$ (b) The administration of the Trust shall be such as to enable both sexes, whether pede as or pupils, to share in the rewards, and the allotments of money should be so Derfect the afford an inducement both to the teachers to instruct and to the pupils to themselves in the training specified above.
(c) The whole of the money grant, in the preliminary stages at least, is to be devoted to encouraging the training referred to in those schools and other educational establishments which are maintained out of public funds.
(d) The allotment of the funds available for rewards between the several Proviar ces shall, broadly speaking, be in proportion to their population of school age.
(e). Service, whether on the Executive Council or the local committees, shall be gratuitous. There shall be no fees chargeable against the Trust.

In the application of these principles, the Executive Council shall be the sole judt of the intentions of the Founder, and its decision shall be final.

## 5. Physical Drill and Military Training in the Public Schools of Nova Scotia.

(1) The Nova scotia Elucational authorities will enforce more gencrally their existing regulations which prescribe the practice of Physical Training and Militar the Drill in all public schools, and will further adopt a system uniform with that of the other provinces of Canada, and of Great Britain, suitable to the age and sox of the pupils, and will encourage the formation of cadet corps, and rifle practice, among boys of high school age, on the understanding that the Militia Department, on its par will:-
(a) Provide competent instructors, at convenient places and seasons, in order to enable teachers, beth those now employed in Nova Scotia, and those under training for such employment, to gualify themselves to carry out physical training and militar) drill; and will also
(b) Grant an annual bonus to such qualified teachers as actually impart this is struction, provided that they make themselves eligible for this bonus by becoming members of the Militia Force.
(2) As regards the instruction of the teachers already employed, there appe ara to be four centres, at or near which a sufficient number of teachers are employed to en the classes to be formed and carried on in the evenings, without interference with ${ }^{\text {at }}$ ordinary day's work, viz:-Malifax, Sydney, Truro, Yarmouth, and possibly a fill wed Pictou or New Slasgow or Antigonish, may be added. Each course would be follo by an examination.
(3) For the benefit of the large number of teachers working out of reach of centres, it was agreed that such instruction might hest be provided during the sumph vacation, either at the Vacation School held at Truro, or at the Summer Science sco $\$$ to of the Atlantic Provinces, wherever held. It is proposed in these cases to hold courses of three weeks each, at each place, followed by an examination.
(4) The Militia Department will provide the Instructors required, dates and places being settled by agreement with the Education Department of Nova Scotia.
(i) In order to provide for the instruction of those students who are qualifying to become teachers, the Militia Department will also provide a competent instructo to conduct a course of Physical Training and Military Drill at the Normal School, Tru ${ }^{\text {ºn }}$ dates to be hereafter arranged, with the Education Departinent.
 higher than third-class, require a certificate of competency to instruct in Phys will Training and Elementary Military Drill. This certificate, Grade 13 (Military), if desired, be issued after examination by the Department of Militia and Defence.
(7) The Education Department will within three years from the close of the ${ }^{\text {the }}$ present school year, give an opportunity (as in 2 and 3 above) for all teachers abo to the third class who have been licensed without the certificate of Grade B (Military) obtain this lower certificate, so that no school of higher grade than third class in all be without a teacher competent to give the prescribed physical drill effectively ${ }^{\text {in }}$ the departments of the school.
(8) The certificates issued will be of two grades:-
ing and Grade A (Military) will represent competency to instruct both in Physical Trainteachers advanced Military Drill, including rifle shooting, and will be issuable to male
tion carrieny, upon their passing a satisfactory examination after a course of instruc-- out at, or under the supervision of a Military School of Instruction.

E Corade B (Military) will represent competency to instruct in Physical Training and
ermentary Drill and will be issued to teachers of both sexes.
$1{ }^{(9)}$ (9) The Militia Department will pay the annual bonuses referred to in paragraph
the pupils, teachers only who hold Grade A (Military) certificates and actualiy instruct are in addition officers of the School Cadet Corps or members of the Militia.
${ }^{6}$ in Under the existing regulations for Cadet Corps, the Department of Militia grants
Concerned ars of Cadet Corps who are on the iustructional staff of the school or college
chools of and who attend and obtain a coaitying certificate at any of the Infantry
Milit Instruction, the same transport and allowances as are paid to officers of for similar attendance.
We The annual bonuses will be paid upon the certificate of an Inspecting Officer of itia that the instruction imparted is satisfactory.
by a (10) The Militia Department will draft a syllabus of the work required to be done and School or College Cadet Corps in order to entitle a teacher to the annual bonus, officers conduct the necessary examinations. Until Cadet Corps possess in their $d_{\text {detailed }}$ fualified instructors, this work of instruction will be carried out by instructors by the Militia Department, so far as practicable.
$\operatorname{loges}^{(1)}{ }^{(1)}$ The new system will, so far as possible, be bruught into force on $1_{8}$ August,
Urally (12) The system of Physieal Trainine adopted, should be such as to lead on nahis obje Without change, to the system of drill in force for the Camadian Militia. With Th Whe the Syllabus of Physical Exercises in use in British Elementary Schools will Hinitity and rifthe present at any rate. It will be supplemented, for more advanced
(a) Che instruction given in the schools will be such as is suitable to the age and physimaition of the prepils.
Corp (13) The Department of Militia will be prepared to supply for the use of Cadet dhilf bookels, caps (if desired), a proportion of arms and ammunition, and, in addition, ${ }^{\text {schooks }}$ for the more advanced training. Luiforms, if worn, must be supplied by emselves.
minimu) The amount of the bonuses to be paid by the Departinent of Militia and the Wpon the number of boy members necessary to enable a Calet Corps to be formed ter discu instruction of which the grant of the annual bonus depends) will be fixed Province. between the Department of Militia and the Liducation Department of 2rog. ${ }^{6}$. Among the decisions of the Dominion Executive on the 26 th of November,
Compere the following, which were duly transmitted for the guidanee of the local tee for the Province.
Military The grant in each Province shall be divided between (a) Physical Training, (b) Drill, and (c) Rifle Shooting in the ratio respectively of (a) Physical Training, (b) 35 and 15 per cent. for (2) The rewards to teachers for excellent physical training should be only large arouse interest, the details to be left to the local committee as defined in
inutes. Battalion Cadet Corps, should as tar as possible, be inspected in Company drill; Drill; Outpost and Advance Cuards; Manouvre (attack and defence);
and Scouting. The percentage of marks to be allotted under the nodifications recommended by the local Committee should be as follows
$40 \%$ to Company Drill.
$30 \%$ Extended Order.
$20 \%$ Discipline, Cleanliness, Care of Arms and Accoutrements. $10 \%$ to Scouting.

Fifty per cent. to be allotted while the Cadet Corps is under the comnand of ithe Cadet Instructor, and fifty per cent. While under the command of the Cadet officer or non-commissioned officers.
(4) The allotment of the prizes for Rifle Shooting and their division betwell "Service" and "Miniature" shooting should be left to the Local Committee.
(5) The total grant to Nova scotia for the school year $1908-9$ was fixed at 8800 . The same amount was authorized for the school year 1909-1910. $\$ 400$ for $\mathrm{Cadel}^{\text {a }}$ prizes, and $\$ 109$ for Plysical Training in the common schools.
7. Among the more important decisions of the local Committee made at its ${ }^{\text {firs }}$ meeting, on the 29th December, 1909, are the following:-
(1) The Physical Training system shall be that of "The Syllabus of Physifal Exercises for Public Elementary Schools, 1909" (Great Britain), with such modificis tions of a few commands and movements (to articulate better with the Canadian Militi Drill) as may be decided upon and be published in the Journal of Education.
(2) The present twelve inspectorial divisions of the Province shall be the pro ${ }^{0}$ vincial subdivisions for supervision of, and competition in, Physical Training for the Strathcona prizes, the four hundred dollars under the clauses 6 (1) and (5) preceding shall be apportioned for 1909 -1910 to each inspectorate in proportion to the anding school enrolment. This gives the following totals for the Strathcona Physical Training prizes for each Inspector for the past school year:

Physical Training Prizes.

(3) The Inspector of Schools shall award the prizes for physical training wit the his own inspectorial Division. The total amount of each prize shall be paid to and teacher who shall apply one-third of it, with the approval of the Inspector ${ }^{0} 0^{\text {al }}$ trustees, to some appropriate object to be permanently displayed in the school tion as a memento. The following competition subdivisions of each Inspectorial Division are provisionally intimated. for the present year.
No. 1. Three prizes in the ratio of $\$_{7}, \$_{5}$ and $\$ 3$ to be competed for in each of the for subdivisions of the inspectorate as follows: (a) Halifax City, (b) Halifax West (c) Halifax East, (d) Halifax Rural. Twelve prizes amounting to $\$ 59.23$.

No. 2. One prize to each of the following three subdivisions of the inspectorate, tions having an organized Cadet Corps being excluded from the competition, they have an equal prize fund for the cadets. (a) Lunenburg, East of the Latia (b) Lunenburg West of the Lahave and (c) Queens county. Three prizes amoubl ing to $\$ 38.33$.

Ar One prize to each of the following four subdivisions, (a) Yarmouth, (b)
Four, (c) Harrington, and (d) Shellume. Sections with cadet corps excluded. $N_{0}$ prizes amounting to $\$ 31.92$.
4. One prize of $\$ 6$ to each of the following four subdivisions of the inspectorate
be Annapolis East, (b) Annapolis West, (c) Digby and (d) Clare; the balance to
Counvided equally between the next best in (e) Annapolis County and (f) Digby
Prizes. Sections having Cadet Corps to be excluded from the competition. Six $N_{0} \quad$ amounting to $\$ 34.14$.

Hand One prize in each of the four following subdivisions of the inspectorate (a)
Mills, East, (b) Hands West, (c) Kings Fast (including Kent ville, Blue Mt., Ia te
$\mathrm{Kin}_{\mathrm{gss}}$, Alton, Pine Woods, Steam Mill, Centreville and East Halls Harbor), and (d) ${ }^{N}$.
and (c) first and second prize in (a) Antigonish county (b) Guysboro municipality No. add. Five prizes amounting to $\$ 2+84$.

South first and second prize (in the proportion of st ito \$4) to (a) Inverness ${ }^{1} 0.8$

In One prize each for (a) Inverness North, si nth of the Margate river, and (b)
A first No and second prize for Victoria county. Four prizes amounting to $\$ 20.00$.
0.

Prizes a first and second prize for (a) Pictor North, and (b) for Pictor South. Four ${ }^{10}$ io $_{0}$ amounting to $\$ 35.97$.
of the I prize for each of the following subdivisions (a) ungraded schools east
of the I.C. R. and its branch, the "Short Line," (b) ungraded schools to the west
Prorated. C. R. and south of the "Short Line", (c) Graded schools not in the incor-
OW hs. Towns. (d) A first and second prize for the schools in the incorporated
$\mathrm{H}_{0}$. 1 , Five prizes amounting to $\$ 35.97$.
South first, second and third prize in (a) Cape Breton North, and (b) Cape Breton
ta st Bay. dividing line from the head waters of Sydney Harbor to the head of $\mathcal{H}_{0} \mathbf{1}_{2}$. Bay. Six prizes amounting to $\$ 51.46$.
and One prize each for (a) Colchester West, (b) Colchester North, and (c) a first our second prize to Colchester South. Sections with Cadet Corps excluded. (4) It amounting to \$21.68.
(4) It is recommended that inspectors should allot marks when inspecting physiing in the Public Schools on the following plan:-
$35 \%$ to be judged during the ordinary school work as well as during the exercises.
$5 \%$ for the performance of Physical Exercises.
sit at the general physique and health of the school. The manner in which the noted. The following extract from the Minutes of the Local Committee informa Trust, for the Province of Nova Scotia, is published


Resolved that the two hundred and eighty dollars for Military 11
(a) One hundred dollars to be divided equally per cadet annongh the rank and file of cadet corps which pass a satisfactory inspection, the cadets under the supervision of the Cadet Instructor to decide how this money shall be expended.
(b) One hundred and eighty dollars in prizes to the best five Cadet Corps as follows:--first prize, sixty dollars; second, fifty dollars; third thirty-five dollars; fourth, twenty-five dollars; fifth, ten dollars. ap taid, prize to be allotted as follows:-Cadet Instructor, one half; Cadet Cap Cadet one-sixth; each of two lieutenants, one-twelfth; each of four sergeants, one twenty-fourth.
[15.] Resolved that the percentage of marks to be allotted at ind spection should be as follows, a slight modification in the scale as sugge tition by the Sxecutive Council being made to meet the particular condition of Nova Scotia:-$.40 \%$
Company Drill ..... $30 \%$
Extended OrderDiscipline, Clcanliness, Care of Arms and Accoutrements $20 \%$Scouting
 of the Cadet Instructor and fifty per cent while under command of the Cadet ()fficers or non-commissioned officers.
[16.] Resolved that where a Cadet Corps is a Battalion and the $\mathrm{cora}^{\text {ar }}$ panies were each trained by a separate cadet instructor, that these ${ }^{\circ}{ }^{0}$ panies should be inspected on their own merits and not as a battal ${ }^{\text {dion }}$ that is, an instructor should be eligible for a prize for that body of $\mathrm{ca}^{\text {ald }} \mathrm{plid}$ which he actually instructed. That unit of cadets competing for ${ }^{\text {a } \mathrm{pin}^{9}}{ }^{8}$ shall be composed of all those cadets for which the instructor claid ${ }^{\text {s }}$ bonus from the Militia Department.
9. The manner in which the one hundred and twenty dollars of the be allotted for Rifle Shooting will be decided at the next meeting ${ }^{\circ}$ Local Committee.

## PHYSICAL TRAINING TEXT BOOKS.

In all the schools of the province the Physical Training follow "The Syllabus of Physical Exercises for Public Elemen Schools, 1909," authorized officially by the British Board of Et E ${ }^{0}$ cation, London. It is recommended by the Local Committee of ${ }^{\text {ond }}$
 so as to correspond with military commands to be used sutifation quently in the cadet corps and the milltia. will call for the following changes.

Page 27. For last two sentences of paragraph entitled "Standing at
and "substitute: The left foot is carried about a foot-length to the side,
the the weight of the body should be divided equally between both feet.
atms. After this motion has been completed the pupils are allowed to
to atte their limbs, but without quitting their ground, so that on coming altention there will be no loss of dressing.

The title of above paragraph should read "Standing Easy."
At the bottom of page 27 add the following: If it is desired to move
the right foot to the side instead of the left, the command will be "With Right Foot Stand-easy."

Wupil Wen a class is standing easy and the caution "Class" is given the hehind will at once place the feet one foot-length apart, clasp the hands Fiven, the back, look to the front and remain still until a command is Thd the "Atten-tion" is given, the left foot will be brought in to the right lion he hands brought to the sides. The whole body assuming the posipreviously described.
"ard Page 50, The command "Quick-march" wall be used not "For-
Ot The paragraph "Turning about on the march" will read as follows:-
the the cormmand "About turn," pupils will be taught to turn about to phey, whit, which must be done by the pupils on their own ground, in three mpils without losing the time. Having completed the turn about, the Th the will at once move forward, the fourth pace being a full pace forward bet is on direction. The word "turn" should be given when the left Hingade with the left foot. With young children this pace may be marked.
${ }^{6}$ Peage "51. The command "With change of step, forward-march" change of step, quick-march."
"hathe." command "Forward-march" after "Heels--raise" to read "quick-
"With ${ }^{\text {Page }} 52$, The command "With knee raising, mark-time" to read, knee raising, quick mark-time."
Puice "With knee raising, forward-march" to read "With knee raising Thage 53. The command "Forward-run" to read "Double-

Page 54. The command "Change-march" to read "Quick--march"
"With knee raising, forward--run" to read "With knee raisinf' double--march."

> "Change-run" to read "Double-march".
"Kunning on the spot, left (right) foot-luegin" is read "Doublic mark - time." All movements to begin with the left foot unless other wise directed.

Page 59. In paragraph 2 read that the second line should be for fred "two paces" behind the first instead of "two fect" behind.

Paragraph 4 should read as follows:. To straighten the lines, the children, of the first line with the exception of the pupil on the extrem: right will turn their heads to the right and move by short steps until ${ }^{\text {the }}$ " are in line with the pupil at the right and at regular intervals from other (about one hand's breadth at the elbow). The pupils of the secon line will get iwo paces away from and directly behind the pupil in frol When this has becen done the heads are again turned to the front.

The command "Iyyes right and lines--straight" to read "Right dress."

Add after the command "Eyes-front" the following: When duid ren have reached the age of ten years they should be taught to turiter head to the front as soon as he or she is in line. The command "Eye front' will then become unnecessary.

Page 60. The command "Mark--time" to read "Quick prark time."

Page 61. The command "Right (or left) about-turn" to rad "About turn." The turn to be made to the right about.

The command "Mark-time" to read "Quick mark-time."
The command "One step forward-march" to read "One pace ${ }^{\text {for" }}$ ward-march".
"One step. backward-march" to read "One pace step march."
"One step to the left-march" to read "One pace to the march."

Pages 62 and 63. In the commands where the word "step" is ${ }^{4}$ substitute the word "pace" and for "backward" the words "step

Under the title "Dismissing a class", substitute "On the word Dis Dis miss, the class will first turn to the right, then after a momentary $p^{p}$ disperse quietly."
read "Slow 87. For command "Slow march left (right) foot-begin" "Slow-mareh."
The commands altered above" oceur throughout the tables and should there be amended accordingly.

The Military Summer School at Halifax
Grade A (Military) Certificate to qualify the desire to obtain the Sanization (Military) Certificate to qualify themselves for the oronly antion and instruction of Cadet Corps. They will be admitted Who on the recommendation of the Superintendent of Education of the mst vouch for their professional standing; and as on account highest expense the number of candidates is limited, those standing orgest in the profession with the best prospect of being able to ${ }^{\text {rganize }}$ and instruct a Cadet Corps, will have the preference.

## Appitications

 beld, later than the first week of June, quoting the class of license $h_{\text {is }}$ class better still, (a) the school in which he is employed (b) be will and length of service, (c) the railway station from which ${ }^{2}$ address require a requisition for free transportation, and (d) his from th which should be sure to find him promptly at any time vehool the middle of June to the date on which he must start for the which opens on the 12 th July.formed Those authorized to take the course will be promptly inMilitary by the middle of Jun, and communications from the schoul authurities will fullow later to the address given.

## Official Information.

head The following official information has been obtained from ${ }^{0}{ }^{2} \mathrm{~B}_{\text {ar }}$ quar rer respecting this C urse which is giv n at the WellingBarcack., Halifax, Nova Scotia.
six (7) The Course will begin on the 12 th if July and will last
drd ${ }_{\text {O }}^{(b)}$ It consists of Scouting, Musk try, Military Drill, Tactics other military subjects which will quilify a teacher as a ' $A$ ' corps instructor, or $^{r}$ for what is sometimes called "a milischools cificate.' Physical Training as now authorized for will be taught
thorized A transport requisition will be forwarked to tho e aumill ${ }^{2}$ ed to take the course. This when tendered to a ticket agent Procure a first class railway ticket.
(d) The actual exprnses, such as cab fare, meals atc., id curred in proceeding to and returning from Halifax will be refur ded by the Government to those who obtain a curificate.
(e) So far as accomodation will allow, teachers will live ${ }^{\text {in }}$ the Officers' Quarters at Wellington Barracks. The remainder will have to live in the City. Thos who live in barracks will ${ }^{\circ}$ ceive about $\$ 1.25$ a day. The cost of living in the officers' Nes and other expenses will practically use up this amount thost who live in the City will receive about $\$ 2.00$ per day and will the th sclves arrange for their board and lodging.
(f) The rooms in the barracks are furnished with bed, bed ding electric light or lamps, bureau, commode, chamber set, table and chais. Any other furnishings must be supplied by thost occupying them.
(g) Those whe do not is w belong to a military unit will be required to wear uniforms as for Corps of School Cadet ${ }^{10}$ struction, but without rank badges, (see paragraph (1).
(h) A sword and belt should be provided.
(i) Teachers who pass this course and become officers in ${ }^{2}$ Regiment of the Militia, or officer of he Corps of School Cadel Instructors, and train a cadet corps which passes inspecion and is connected with a public school. will receive a yearly bonls ${ }^{\text {a }}$ follows:-
"For the training of a cadet corps during the school yegr subject to the cer ificate of a military nspecting officer that the cadet corps has been well instructed in the course of military traill ing laid down for them, allowance will be paid to Lieutenan ${ }^{\text {t }}$, calculated as follows,-

When the corps has less than 20 cadets, no allowance will be made.

From 20 to a maximum of 50 cadets, $\$ 1$ per cadet.
For each additional cadet up to 100,75 cents per cadet.
For each cadet in excess of 100 up to 125,50 cents per cadet
With no additional allowance for any cadet in excess of in any one corps under one Lieutenant instructor. G. O 58, 1909.

Halfax, should (j) Applion to take the course at Wellington Barracks, of Eax, should be made as early as possible to the Superintendent of Education for Nova Scotia. The railway station from which transport will be required should be mentioned.
(k) Those authorized to undergo the course are to report to the Adjutant the Royal Canadian Regiment, at Wellington Barracks, Halifax, N. S., by 10 o'clock A. M., the 12 th of July.
(1) A uniform is authorized for Corps of School Cadet Instructors as follows: Jacket Reefer or double-breasted pattern fastue black cloth or serge of ordinary civilian sackcoat length, Midened in front by two rows of four buttons each, of Canadian badges pattern. Shoulder straps, blue crash with gilt metal rank at ges. Trousers-Of serge to match colour of jacket, no stripe at seams. Cap Field service, infantry, blue. Uniform and equipont will be provided by the officers of the corps as is done by "ther officers."
( $\mathrm{m}^{\prime}$ ) The Minister in Militia Council has decided that only of military instruction, and heave qualified by attendance at a course orgalitary instruction, and who are actually instructing bona fide ${ }^{0}$ ganized and gazetted Cadet Corps, will be appointed to the 0 ps of School Cadet Instructors, with the rank of Lieutenant Whin Militia. The mere fact of qualifying as a Cadet Instructori Wind not be considered sufficient for according militia rank.

Sule-Target Gun Machines.
in th) It is the desire of the Milibia Department to place sul-target gun machines inhose educthe desire of the Milita

Trom (he The space required in which to set up a sub-1aryet rifte machinc is 61! feet centre of the base of the target, plus $\bar{\sigma}$ or 10 feet for the recruitn and instructor. machines ming cases this accomodation is not avaibible amd it is sugsested that these might be usefully employed in smatler space by,
(a) placing the target at the preseribed distance outside the building and aiming through a window.
(b) by placing the target beside or behind the machine and aiming at the reflection of the target in a mirror placed on the wall at half the prescribed distance. A. G., M. Forms for application for these machines may be contained from the D. A.
in (4) When sub-target gun machines are out of working order, and the instructor
Ordance to make the repairs, a report to this effect should be made to the Senior nedance of make the repairs, a report to thisert may be sent to place the machine
in Orking order.

## Certificates, 1909.

Certificates awarded by the Department of Militia and Defence to teachers, and sent to the Education Office for distribution, since the publication of the last October Journal of Education.

Grade A.
No. 17483 L. A. d'Eintremont, West Pubnico, N. S.
Grade B.
1292 Miss Evelyn Finn
1293 " Teresa Nahrings
1294 " Ellen Wood
1295 "، Eva Mary Murray
1296 " Helen Hagan
1297 " Katherine McManus

Mount St. Vincent, Halifax.

1298 " Filora McDonell
1299 " Sadie Fitzgerald
1300 " Eleanor Sullivan
1301
Some of the Certificates announced in the last October Journa have not yet been distributed, owing to the absence of the teacher's present address. The certificate would be lost in many cases, if sent out to the address given at the time of raining. Hence they are retained until asked for

## COUNTY ACADEMY ENTRANCE EXAMINATION.

Law) Regulations 61 of the C. P. I., (page 81), Manual of School raw) is repealed and the following substituted in its place:

The regular mode of admission into county academies shall be by an entrance examination in the last week of the school term in June, mainly on the subjects of Grade VIII. 'There shall be ${ }^{\text {six }}$ out subjects of examination, as follows, the questions being sent examiners on the Grade VIII reading, (Second series for 1910). $\mathrm{fr}_{\text {o }}$ sic: Candidates known from individual or class exercises, or ham reliable certificates, to be able to sing, especially when they thay a practical acquaintance with any system of musical notation, thay receive an extra mark as a bonus under this head at the option of the examiner, providing the Reading is passable. See also Reg. raphy (2) Language. (3) Drawing and Bookkeeping. (4) GeogWith and History-Geography of Asia, Africa, Oceania, in detail, (v) a review of Canada. History of Canada (Hay or Calkin). Healtheral Knowledge: (a) The five families, Crowfoot, Rose, ${ }^{0} \mathrm{~m}_{\mathrm{m}} \mathrm{l}$, Violet and Lily; with the important native trees and the and min weeds injurious to agriculture. (b) The common rocks (d) Minerals of Nova Scotia. (c) A few of the common birds. or Mealth Reader, No. 2. (Mechanic or Domestic or Rural Science, ${ }^{\circ} \mathrm{Music}_{\text {uic }}$ as in Regulation 99). (6. Mathematics.
UNTY ACADEMY ENTRANCE EXAMINATION, TIME TABLE, JUNE, 1910.

| Time. |  | Subject. |
| :---: | :---: | :---: |
| \% | 9 to $11 \mathrm{a} . \mathrm{m}$. | 2. English Language. |
| a - g | 2 to $3.30 \mathrm{p} . \mathrm{m}$. | 3. Drawing and Book-keeping. |
| $\stackrel{\text { E }}{ }$ | 3.70 to $5 \mathrm{p} . \mathrm{m}$. | 4. Geography and History. |
| 8) | 9 to $11 \mathrm{a} . \mathrm{m}$. | 6. Mathematics. |
|  | 2 to 3.30 | 5. General K nowledge. |

Reading to be examined at the end of each session, or er found most convenient by the Principal.

PUBLIC SCHOOL PROGRAM.
From the Rfport of the Committee on College Fintrance Requirements, National Educatton Assoctation, U. S. A. 1899.

Three distinct terms seem to be needed:
(1) Program of studies, which includes all the studies offered in a given school;
(2) Curriculum, which means the group of studies schematically arranged for any pupil or set of pupils;
(3) Course of sludy, which means the quantity, quality $a^{a^{d}}$ method of the work in my given subject of instruction.

Thus the program of studies includes the curriculum, and nady $^{\text {a }}$ indeed furnish the material for the construction of an indefinite number of curriculums. The course of study is the unit, or element from which both the program and the curriculum are constructed.

## 154. HIGH SCHOOL PROGRAM FOR 1910-11.

(1) Description by drawing as well as by writing may be $\mathrm{e}^{\mathrm{e}^{-}}$ quired in any question, and should always be used when brevity or clearness may be gained.
(2) The "High School Pass" in all grades shall be an average of $50 \%$ with no mark below $30 \%$ on a group of six subjects for I; and a group of nine papers for Grade $X$ Il.
(3) The "Teachers' Pass" shall be an average of $60 \%$ on of group of six subjects in Grades IX, X. and XI, and on a group nine papers for Grade XII with no mark below $40 \%$. $50 \%$, ever must be made on English in each grade for a "Teachers' Pass".
(4) Candidates may write on more than the six subject,' or nine papers indicated in (2) and (3). In such cases the "pasect shall be determined by the group including the highest six subj ${ }^{\text {dish }}$ or the highest nine papers, as the case may be, providing Engl is one of the group.
(5) Two hours shall be given at examination for each paper which shall contain eight questions.
(6) When a candidate wishes to raise a "High School Pass'" to a "Teachers' Pass," he shall be required to make a mark of at is, " 60 on each subject not previously up to this standard. That least "Teachers' Pass" by partial examinations will require at only sixty per cent. on every subject. This can be necessary fore when a candidate is not writing for a higher grade, and thererege all such supplementaries can be taken on the papers of the regtlat examination.
(7) The "High School Pass"' admits to the corresponding $c_{a s s}$ in the Provincial Normal College, whose faculty can raise it to the "'Teachers' Pass'" on evidence of improved scholarship, Without which the Normal diploma cannot be awarded.
(8) Candidates for Grade XII certificates (High School
$P_{\text {ass }}$ ) who faid on account of being too low in Foreign Languages ut who have made the High School average pass on the other subjects, shall have the privilege of completing the pass at a subequent examination by making at least $50 \%$ on each of the nine papers not previously up to this standard.
(9) Candidates for Grade XII certilicates (Teachers' Pass) Who fail on account of being too low in Foreign languages, but sholl have made a 'Teachers' average pass on the other subjects, examine the privilege of completing the pass at a subsequent rot pration by making at least $60 \%$ on each of the nine papers previously up to this standard.
(10) From one to three points may be added by the exto ber for specially good writing. Bad writers have no right defects admitted to an examination except on certificate of physical of ects, and if examined, the papers are subject to a deduction arks. One point shall be deducted for every word misspelled.
incon (11) The High school subjects to be taught in a rural, or shompletely graded high school, shall be determined by the the Inboard in agreement with the principal, with an appeal to thent ispector, and from him to the Council, in case of disagree${ }^{0}$ dissatisfaction.
Duquity, Any subject deemed to be of importance in any com-
board may be put on the program of a school by the school with the consent of the Education Department.
II (13) No school is advised to undertake the work of Grade teachers. less than a staff of four regularly employed high school
(14) A candidate who has taken Latin in Grade IX, may take the IX French paper instead of the regular one in Grade $X_{1}$ and the X French paper in Grade XI, provided a 60 or 50 per cent. mark is made respectively for a Teacher's or a High School Pass in each case.

## GRADE IX.

(English and any other five subjects imperative).

1. Eingitsh:-
(a) Literature--George Eliot's Silas Marner (edited by Herrick, Longmans, New York, $\$ 0.25$ ), and Scott's Lay of the Last Minstrel (Edited by Saul, Morang, Tofonto, \$0.15), with critical study, word analysis, prosody and recitations. English Composition as in Sykes, to page 101, or an equivalent in the hands of the teacher, with essays, abstracts and general correspondence so as to develop the power of fluent and correct expression in writing.
(b) As in Grammar - (except notes and appendix) with easy exercises in parsing and analysis.
2. Latin:--As in Collar and Daniell's First Latin Book, to end of chapter $\mathrm{L}_{\text {. }}$, or any equivalent grammar, with easy trand lation and composition exercises. [The Roman (phonetic) $\mathrm{p}^{\text {ro }}$ nunciation of Latin to be used in all grades.]
3. French:-Bertenshaw's Grammar, Part I., and First Reader to page 56.
4. Geography:--Physical and Astronomical, General Geog raphy of continents and British Empire in detail as in Calkin.
5. Arithmetic:-As in the Academic to page 63.
6. Algebra:-As in Hall and Knight's Elementary to ${ }^{\text {end }}$ of Chapter XVI.

## 7. Drawing:--

(a) As in Morton's Mechanical Drawing, with the construc tion of the figures in Fuclid, Book I.
(b) High School Drawing Course, No. I, with model and object drawing and Manual Training No. 2.
8. Science: Botany--(5 Q.). Spotton (except Chap, XIX) and the study of the Wild Plants of the Phenological Observations, with Pteris, Aspidium, Asplenium, Onoclea, Osmunda.
Text to $\begin{aligned} & \text { Phics--( } 3 \Omega . \text { ). As in Primer or equivalent (winter months). }\end{aligned}$ ext 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: Dickens' Tale of Two Cities (edited by Buehler, MacMillans, Toronto, $\$ 0.25$ ).
(b) As in Grammar:--Text book complete.
2. Latin:--As in Collar and Daniell's First Latin Book complete, and "Coesar's Invasion of Britain," by Welch and Duffield.
3. Greek:-As in White's First Greek Book, lessons I to end of XLV.

Or French:-Bertenshaw's Grammar, Part II, and Souvestre's "Le Chevrier de Lorraine."
Or German:-As in Joynes Meissner's Grammar, first 25 exercises, with Buchheim's Modern German Reader, Part I., first division only.
4. History:-Review of British History as in "Outlines" Or Calkin's; and oral lessons by teacher based on Bourinot's "How "anada is Governed" (three questions).
5. Chemistry:-Inorganic, as in Waddell or Williams.
6. Arithmetic:-Text book complete.

Chat Al Aebra:-As in Hall \& Knight's Elementary to end of apter XXVII.
included ${ }^{8}$ Gemetry:--Hall \& Stevens' Euclid, Book I, with all uded exercises to the end of Preposition 48.

## GRADE XI.

(English and any other five subjects imperative.)

1. English: Shakespeare's Julius Caesar (edited by Odell, Longmans, $\$ 0.25$ ), Macaulay's Addison (edited by French, MacMillans, Toronto, $\$ 0.25$ ). History of English literature as in Meiklejohn. For outside reading and theme writing: Kingsley's Hereward the Wake (unabridged, "Everyman's Library").
2. Iatin:-Grammar and easy composition partly based oll prose author read.
(a) Cossar's De Bell. Gall., Book I, (b) Vergil's Eneid, Book I, with grammatical and critical questions, (c) Firsl Exercise in Latin Prose Composition by F. A. Wells (Geo. Bell \& Sons London).
3. Greek:-Grammar and easy composition based partly on author read and White's First Greek Book completed. Xeno phon's Anabasis, Book I, with grammatical and critical questions.
or French:-Berthon's Specimens of Modern French Prose omitting IV, VI and X, and A Travers le Canada (Quatrième Livre de Lecture-Nelson $\mathcal{E}$ Son, or Mackinlay).

Fraser and Squair's Grammar, sections 227 to 344 , with the corresponding exercises, pages 343 to 371 ; or a thorough review of Bertenshaw's Grammar, parts I and II, with exercises complete.
or German:-As in Joynes-Meissner to lesson 44, with Buche heim's Modern German Reader, Part I, complete. Review of Grade X German.
4. History:-General History, as in Swinton.
5. Physics:-The Chapters on either (a) Light and Sound, or (b) Electricity, to be taken with the rest of the text, alternative questions to be given on (a) and (b).
6. Practical Mathematics:--To be known as Trigono metry and Mensuration. As in Murray's Essentials of Trigon ${ }^{\circ}$ metry and Mensuration, excepting Chapter XI.
7. Algebra:-As in Hall \& Knight's Elementary Algebra to end of Chapter XL, except Chapter XXIX to end of XXIXd.
8. Geometry:-Hall \& Stevens' Euclid, Books II, III and, IV, with all included exercises and the "theorems and examples" italicized following each Book from I to IV.

## GRADE XII.

## (Leaving Examination).

[Nine papers out of fifteen on the following twelve subjects Constitute a full course. The following subjects are imperative:Euglish, two foreign languages, one mathematical and one scientific subject; except that those who take both Latin and Greek may omit the scientific subject, and those who make an average of 70 (Teacher's pass) or 60 (H.S. pass)on English, with 5 more on each of the marks and averages determining the respective regular Passes, may omit foreign languages].

1. English (Two Papers): (a) Lounsbury's English LanLuage, or Bradley's The Making of English. History of English mill billan Company, Toronto).
(b) Shakespeare's As You Like It (Edited by Phelps, Longmans, \$0.25); Palgrave's Golden Treasury, Book II (complete, edited by Bates, Longmans $\$ 0.25$ ), and Emerson's Essays (selected, edited by Holmes, MacMillan, \$0.25).
With the following books for outside reading and theme writing:--Longer Narralive Pooms (edited by Jeffries, Morang, \$0.15), Holmes' Autocrat of the Breakfast Table (Everyman's Library), and Thackeray's English Humorists (edited by Bennett, Longmans, paper $0 / 3$, cloth $0 / 6$ ).
2. Latin. (Two Papers): (a) Bennett's Latin Grammar or equivalent; Bradley's Arnold's Latin Prose Composition to end of exercise XXII; Sight Translation.
(b) Cæsar's De Bell, Gall II, III and IV; Virgil's Aneid, Books II and III.
3. Greek (Two Papers): (a) A thorough review of White's "First Greek Book," Sight Translation; Lasy Composition partly based on the prose author read.
(b) Xenophon's Anabasis, Books II, III and IV.
lissier ${ }^{\text {4. French:--Sandeau's Sacs et Parchemins (edited by Pe- }}$ MacMillans Toronto, $\$ 0.90$ ); Corneille's Polyeucte (Edited $d_{e}{ }_{M}$ ruholtz, Pitt Press Series 2/-; Angier \& Sandeau's Le Gendre questionsirier (edited by Preston, Blackie \& Son, -/8); with upon grammar and composition as in Fraser and Squair's Page 371 , sections 345 to 461 , with the Composition exercises from 371 to page 394.
4. German:--Buchheim's Modern German Reader, Part Il to end of selection 10 second division; and Schiller's Wilhelm Tell, Acts I, II, III, and IV (edited by Carruth, MacMillans, $\$ 0.60$ ) Grammar and Composition as in Joynes-Meissner.
5. 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.]
6. Geomptry:-As in Hall and Stevens' "Euclid I toi in and XI', omiting demonstrations of $V$, unsolved exercises is "Theorems and examples on Books VI", and the more cumbro ${ }^{19}$ half of the subsequent three collections of exercises.
7. Trigonometry:--(a) Plane as in Murray's Plane and Spherical. (b) Spherical as in Murray's Plane and Spherical, Chap ${ }^{\circ}$ ters I, II, III, and IV.
8. Physics:- As in Goodspeed's Gage's Principles of Physics.
9. Botany:-As in Bergen and Davis' Principles of Botany.
10. Chemistry:-As in Smith's "General Chemistry for Colleges' '
11. History:-Myer's Ancient History (revised editior $)$, Parts I, II and III.

> (SCHEDULE B.)

PRESCRIBED FORM FOR PROVINCIAL HIGH SCHOOL EXAMINATION.

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A T
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STATION.
To
Inspector of Schools:
May, 191
I,................... a duly licensed teacher of Class .............. do hereby certify that the candidates whose names are given below from No. I to No. . . . . . . . . inclusive, will, to the best of my knowledge, have completed, before the date of next exam

Ination, 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 zoriting* of each candidate are up to the standard desirable to be maintained for promotion in the High Standard desirable to

I also forward herewith on behalf of these candidates
of lars, being the amount of fees required under sub-section (b) of Regulation 85, "Provincial Examination of High School Students," as specified in the list below.

Candidates intending to take the M. P. Q. Examination (fee $\$ 2.00$, payable to the Deputy Examiner at Examination) are indicated by the letters M. I'. Q., in the column headed "remarks", below.

Signed

> Principal . . . . . .......School. . . . . . . . . . . . . . . . Co.

## SVLLABUS

## $\mathrm{OF}^{*}$

The academic Headmaster
OR UNIVERSITY POST-GRADUATE, IEXAMINATION.
shall 110 . (b). The testing provincial post-graduate examination Uation upon two series of papers the higher of University "grad"ation distinction" standard, the lower of University "gradshall pass' 'standard. The post-graduate examination "pass" require:-

1. A provinciai pass $(50 \%)$ in at least one subject of the higher standard.
2. A provincial pass in five other subjects of the Lower standard.
3. Certificates of the following University courses taken and passed by candidates shall be imperative and must be
taken later than the first year of the University course, namely:--Logic and Psychology, and any two of the following: Ethics, Political Economy, Sociological Science, Modern Philosophy, History.

## 4. SYLLABUS OF THE HIGHER STANDARD.

[Two papers, three hours long, on each subject.]

## English. I.

(A) History of the English Language as in Lounsbury's "English Language" or "Emerson's History of the English Lar" guage.'
(B) History of Nineteenth Century English Literature, in Herford's "The Age of Wordsworth" (1798-1832, and Walker's "The Age of Tennyson'' (1830-1870).
(C) A thorough knowledge of the following works:- Dow den's "Selections from Wordsworth," Browning's Shorter Poem by Baker, Tennyson's Shorter Poems by Nutter, Palgrave's $\mathrm{G}^{0}$ den Treasury of Songs and Lyrics (Book IV), Pancoast's "Stan" dard English Prose' (the selections from Lamb to Stevenson).
(D) Ten Brink's History of Early English Literature (Vol. I),
(E) Bright's Anglo-Saxon Reader (the introduction and Parts I, II, and IV).
(F) Morris' Specimens of Early English Part I (Extract ix to xviii inclusive).
[N. B. All candidates are expecter to have a thoroulg knowledge of the principles of Composition. To ensure the pos session of this knowledge and of the ability to make practical $\mathrm{u}^{\text {se }}$ of it, the writing of an Essay on some one of several given subjects will form an important part of this examination.]

> II. and III.-Foreign Languages.

Translation at sight, from any ordinary authors, with Grammar (including Prosody), Composition, and a fair knowledge of the ${ }^{\text {² }}$ tional, social, institutional and literary history of the people whos language is dealt with, in any two of the following languages:Latin, Greek, French, German.
[Extracts will be set from at least three prose and three poetical authors in each language. In French and German the candidates' ability to use the spoken language may be tested by one or more questions requiring viva voce examination.]

> IV.-Mathematics.
(A) Algebra, Geometry and Trigonometry as in Grade XII.
(B) Plane and Solid Analytical Geometry, including the general equation of the second degree. Differential and Integral Calculus, as in Murray's Infinitesimal Calculus.
V.--Sciences.

Any one of the following:

## Physics.

Phyise (A) A knowledge of General Physics, as in "A Textbook of 'iscs' ' by Watson (unstarred sections), or any equivalent.
(B) The presentation of note-books describing the laboratory experimental work of the candidate, duly certified by the Instructor versity to consist of at least 50 experiments of recognized Unithents grade (e. g. as in Ames and Bliss' "Manual of Experi" ${ }^{\text {Ltets }}$ in Physics' '). In cases where the candidate cannot present by a pooks satisfactory to the examiner, the test may be made practical laboratory examination.
(C) Elementary Mathematical Physics. A knowledge of the to Sults obtained by the application of elementary mathematics of leysical problems; such as might be obtained during a course years lures of two or three hours per week running through two of "He The grade of work such as is given in Preston's "Theory "Elemt," Preston's "Theory of Light,", and J. J. Thomson's ements of Electricity and Magnetism," or their equivalents.

Chemistry.
(A) Inorganic Chemistry as in Smith's "General Inorganic Chemistry," or an equivalent, with laboratory work in General gases, actry, which should include the preparation of some typical perimes acids, and salts, and at least five or six quantitative exThe labors in illustration of the fundamental laws of Chemistry. ${ }^{c}{ }^{n}{ }^{n}$ labidatatory work may be partially tested by requiring the mental to produce a properly certified record of his experiwork.
(B) Organic Chemistry as in !Remsen's, "Compounds of Carbon'' or an equivalent, to be accompanied by laboratory work, which should include the preparation of at least 20 typical carbon compounds. The laboratory work may be tested partly by questions in the papers on Chemistry, and partly by requiring the candidate to produce specimens of his preparations properly certified to be his own work.

## (C) Analytical and Physical Chemistry. including:-

1 Qualitative Analysis of the common acids, and bases. Candidates may be tested by a practical laboratory exant ination and by questions in the Chemistry papers
2. Quantitative Analysis. The estimation of the following elements in their common compounds:-Chlorine Sulphur, Phosphorus, Carbon (in carbonates), Silicon, Silver, Copper, Calcium, Nasnesium, Lead, Iron; Carbon and Hvdrogen in orsanic compounds. Candidates may be tested by a practical exercise in the laboratory and by question in the Chemistry papers.
3. Physical Chemistry, as in Talbot and Blanchard's "Elec" trolytic Dissociation Theory" and "Walker's Introduc" tion to Physical Chemistry.'
(I) Outiines of History of Chemistry, as in Tilden's "Short History of Scientific Chemistry,'" Thorpe's "Lissays in Historical Chemistry" and "Justus von Liebig' and "John Dalton' in the Century Science Series.

## Biology.

(A) Botany as in Principles of Botany and Laboratory and Field Manual by Bergen and Davis. A practical knowledge of the system of classification and the use of manuals, as Gray's. All acquaintance with (a) the common Spermatophytes and Pteridophytes of Nova Scotia, and (b) type species of native Byrophytes and Thallophytes representing the more common classes or orders. The exhibition of, and examination upon, a collection of orle hundred species correctly determined and well mounted by the candidate under ( $a$ ), and of another hundred (counting micros copic slides) also mounted and determined under (b).
(B) Zoology as in Zoölogy Descriptive and Practical by Colton, and Hand-Book of Instructions for Collectors issued by the British Museum (Natural History). A practical knowledge the system of classification and the use of manuals, as Jordan's.

An acquaintance with (a) the more common vertebrate fauru $u$ i Nova Scotia, and (b) typical species of the more common classes or orders of the native invertebrates. The exhibition of at least fifty specimens under ( $a$ ), and at least fifty microscopic or macroscopic specimens under (b), all correctly determined and neatly mounted or prepared.

Tho (C) Outline History of Biology, as in "Science of Life"' by Relationon, or an equivalent, with latest theories. Bacteria in Relation to Country Life, by Lipman.
[The candidate must show his ability to dissect macroscopically and microscopically, to make microscopic sections, and have an elementary knowledge of microscopic technique. A monograph upon, or a special study of, any biological group or species, in me accepted according to its merits as supplementing defects in collections, etc. Any original work showing a knowledge of the subject will enhance the candidate's standing.]

As in Introduction to Geology by Scott, Physiography by Salisbury, and Mineralogy, as in Minerals and How they Occur by Miller, vincoratory knowledge of the rocks and minerals of the prosurfa, and field knowledge of the results of forces changing the surface of the earth.

## 5. SYLLABUS OF THE LOWER STANDARD.

by [One paper three hours long on each subject, supplemented tion voce examination and practical demonstration at the opof the examiner.]

> I.- English.

As in (A), (B) and (C) of the Higher Standard.
of [All candidates are expected to have a thorough knowledge this the principles of Composition. To ensure the possession of Writing kledge, and of the ability to make practical use of it, the an ing of an Iissay on some one of several given subjects will form an important part of the examination.]
II. and III.--Foreign Languages.

> IV.-Mathematics.

As in (A) of the higher standard.
V. and VI.--Sciences.

Any two of the following:-
Physics: As in (A) of the higher standard.
Chemistry: As in (A) of the higher standard: omitting the sections of the text-book in small print.
Biology: As in "First Course in Biology"' by Bailey and Coleman, "Practical Botany for Beginners'" by Bower, "Animal Life"' by Jordan and Kellog, and a knowledge of the use of manuals in the classification of the more common species of the Nova Scotia Flora and Fauna $2^{26}$ in Gray and Jordan respectively or equivalents.
[For the foreign species worked out in the Practical Botany text the nearest native species obtainable shall be studied in the same way, practically. The same principle holds in zoological practical studies.]

Geology: As in the first xxiv chapters of Scott's "Intr0" duction to Geology," and Miller's "Minerals and How They Occur.'

## 6.-Non-Graduate Candidates.

Candidates who have not graduated from a recognized University, if they have spent at least four Academic years in study after attaining the Grade XI standard of scholarship, and have obtanned a pass on Grade XII and a pass on the testing provincial post graduate examination, may be admitted to a special examin ${ }^{2 a}$ tion on the remaining subjects of a full University course, in ord ${ }^{\text {d }}$ to obtain the standing of a graduate of a recognized University under those regulations. But the cost, syllabus and time of any such examination have not at present been determined.

> 7.-General Rules of Examination.
(a) Options will be given when questions deal with minute details in subjects of wide range, in the sciences especially, with the object of equalizing the effects of different instructors, and texts are mentioned merely to indicate the comprehensiveness and intensiveness of the study required.
(b) An average of fifty per cent. on all subjects, with none below forty on the lower series, is required for a pass, provided the candidate also passes in the practical and viva voce examination.
(c) If a candidate fails in not more than two subjects, he may take a supplementary on the subjects failed in, but will make a pass only when no subject is below fifty per cent.
(d) The examination will be held in Truro during Provincial Examination week and the week following, in proximity vene Provincial Normal and Agricultural Colleges, for the convenience of laboratory demonstration and viva voce examination.
(e) A preliminary notice stating the intention to make application, and specifying the details to be proven and subjects to of taken, should be sent in to the Superintendent not later than the first day of March preceding.

Application for examination should be made to the Superintendent of Education before the first day of May, stating the higher and lower subjects to be written upon, and furnishing proof (1) of having matriculated into a University on a standard practically as high as the pass of Grade XI of the Provincial High School, (h) of having taken thereafter a full course of four academic years, three of which must have been the second, third and fourth years of the University course, and (3) of graduation as recognized in Regulation 110 (a) 2, preceding.
(f) There shall be no fee for examination.

## Publishers or Texts Mentioned.

| Emerson's " History of the English Language" | (Macmina). |
| :---: | :---: |
| Herford's "The Age of Wordsworth" | (Bell \& Sons). |
|  | (Bell \& Sons). |
| $\mathrm{R}_{\text {aker }} 0$ den's "Selections from Wordsworth" | (Girn \& Co.). |
| $N_{\text {Uter's }}$ Mrowning's Shorter Po | (Macmillan). |
| Palger's Tennyson's Shorter Poems. | (Macmillan). |
| Parncove's "Golden Treasury . ....., | (Holt \& Co, |
| Brighrink's History of English Literature | (Bell \& Sons). |
| Morris's Anglo Saxon Reader. ............ | (Holt \& Co.). |
| M ${ }^{\text {rris's }}$ Specimens of Early English, Part I | (Clarendon Press. |
| Watsy's Infinitesimal Calculus | (Longmans). |
| Preston's Text Book of Physics | (Longmans). |
| Preston's "Theory of Heat'" | (Macmillan). |
| J. Ston's "Theory of Light' | (Macmillan). |
| Thomson's "Elements of the Mathematical Theory of Electricity and Magnetism' | (Cam. U. Press). |

Smith's "General Chemistry" . ..... . ......... . (Century Co.).
Smith's "General Inorganic Chemistry"'....... (Century Co.).
Remsen's "Compounds of Carbon''............. (D. C. Heath Co.).
Talbot and Blanchard's "Electrolytic Dissociation Theory'"
Walker's "Introduction to Physical Chemistry" ; (Macmillan).
Tilden's "Short History of the Progress of Scientific Chemistry" "........................... (Longmans).
Thorpe's "Essays in Historical Chemistry"'. . . . (Macmillan).
Shenstone's "Justus von Liebig' 'in Century Science Series
Sir H. E. Roscoe's " John Dalton' in Century Science Series (Macmillan).

Bergen and Davis, Botany and Laboratory Manual
(Macmillan).
(Gimn \& Co.).
Gray's Manual of Botany (Seventh Edition) ...(Am. Book Co.).
Jordan's "Manual of Vertebrates', ............. (McClurg \& Co.).
"Bacteria in Relation to Country Life" by Lipman(Macmillan). Colton's " Zoology Descriptive and Practical"'. (D. C. Heath Co.). Bailey and Coleman's Biology.................... (Macmillan). Thompson's "Science of Iife",
(Blackie \& Son).
Jordan \& Kellog's "Animal Life,"
Bower's "Practical Botany for Beginners";
(D. Appleton).

Hand Book of Instructions for Collectors
(Macmillan).
Scott's "Introduction to Geology" ". ........... (Brit. Museunillan).
Salisbury's "Physiography"
Miller's "Minerals and How They Occur'
(H. Holt \& Co.) (Toronto).

## TIME TABLE OF THE

ACADEMIC HEADMASTER I:XAMINATION, 1910, AT THE NORMAL COLLEGE, TRURO.
July 49 to 12 A. M. Greek (higher, A) and Greek (lower).
2 to 5 P. M. German (higher,A) and German (lower).
July 59 to 12 A. M. Latin (higher, A) and Latin (lower). 2 to 5 P. M. French (higher, A) and French (lower).
July 69 to í A. M. English (higher, A) and English (lower). 2 to 5 P. M. Mathematies (higher, A) and Mathematics (lower).
July 79 to 12 A. M. Science (higher, A) and Physics (lower). 2 to 5 P. M. Science (higher, B) and Latin (higher, B). July 89 to I2 A. M. English(higher, B) and Mathematics (higher, B). 2 to 5 P. M. Greek (higher, B) and French (ligher, B). July 99 to 12 A. M. German (higher, B) and *Chemistry (lower) 2 to $5 \mathrm{P} . \mathrm{M}$. *Biology (lower) and *Geology (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.


## Rural Science School.

Apriliated with the Provincial normal and Agricultural Colleges at Truro, izth July to 12 th August, 1910.
tom The next Session of the Rural Science School will be held July 12th to August 12th, 1910.
belo The syllabus of the Rural Science Diploma Course is presented The Daily Time Table will be so arranged that students in qualdance may take also the classes in Physical Training and for the Physical Tranning Certificate. In addition, optional will be provided in Music and Photography, and it is conmal College, classes in Pedagogy will be arranged.

## Rural Science Diploma Course.

of Courses will be offered in the Principles and Applications 2ud ature Study, General Biology, Botany, School Gardening, Stuculture, Agriculture, Physics, Chemistry, Bird and Study, Geology and Mechanic Science.

These Courses, one or all, will be free to teachers or intendidg teachers, and may be taken by:-(a) those who merely wish ${ }^{\text {to }}$ extend their knowledge for teaching purposes; (b) those who wish to proceed to the full qualification required for a Rural Scienct Diploma.

The work is so arranced that it will be possible for almost any teacher to complete the requirements for this Diploma to three summers, or for one already proficient in the subjects to do so in one term.

During the term, as a rule, the time in the forenoons-six days in the week-will be devoted to class work. The afterno ${ }^{15}$ five days in the week-to field excursions and individual work in the laboratories.

The tests required for the Rural Science Diploma will be regular attendance at the class instruction and in the laboratories: a satisfactory report by the instructors on the class, laboratory and field work of the student and the passing of an examinatiod at the close of the term upon the topics of the following sylablus. Due allowance will be made for reading and study along the lipe of the course which a student may prove that he has done, betweld terms. In this connection books of reference are mentioned $u^{d^{d e r}}$ each subject.

> SYLLABUS.

## Nature Study.

Aims and purposes of Nature Study.
Distinction between Nature Study and information about nature on the one hand and formal science on the other.

Stages in Nature Study lessons:--(1) observation (as active experience), (2) reasoning upon the material observed or action performed, and (3) expressing the observations, actions, judgmen applications, in the most suitable or by different modes.

Observation in the limited sense distinguished from experiment
Nature Study, a method of teaching by environment and experience, rather than a mass of knowledge about nature.

Fnvironment and experience considered and analyzed as ${ }^{\text {the }}$ field of Nature Sturly from the point of view of subject matter.

How geography (in part), physiology (in large part), arith(in part), may be taught as Nature Study.
The correlations of Nature Study with literature, the expresfive are correlations of Nature study with literature, the expres-
culture. arithmetic, mechanic and domestic science, and agni-

Tinvestig preparation of the Teacher:-Proficiency in heuristic Deestigational) as distinguished from informational or memoriser now led of instruction; elementary knowledge of the sciences; hew wedge of the use of manuals and books of reference with a Guide not to acquire knowledge to restate to the pupils but-to hem in their investigations.
The place of Nature Study in the Time Table.
Tests of the results.
Nature of aids and proper methods of using them:-Books res, microscopes, aquaria, terraria, museum, etc.
The use and abuse of collections.
Co), Reference Book:-Nature Study Dearness (Comp, Clarke

> General Biology.
$\mathrm{Organization}^{\text {as a product of life. }}$
$O_{\text {rganic }}$ versus inorganic matter.
Protoplasm,
Cell, tissue, organ; a plant, an animal as biological units.
Chief distinctions between plants and animals.
Ital Nutrition, reproduction. sensation and volition as groups of activities.
Parasitism.
${ }^{C l \mid l} \mathrm{Ch}_{\text {characteristics of }}$ large divisions of plants and animals:-oneplants, algae, fungi, mosses, ferns, conifers, seed-plants oneanimals, radiates, neuropods (bilateral invertebrates), (vertebrates), and of the large divisions of the verte--fishes, amphibians, reptiles, birds and mammals.
Reference-See under Botany.

## Botany.

Life history of a typical dicot, monocot, conifer, fern and fungus.

Nature and significance of plant societies and associations.
Characteristics of annual, biennial, perennial; herb, shrub, tret
Organography of seed-bearing plants; form and function of chief parts of plant borly, shoot, bud, root, flower and seed. See dispersion.

Pollination, fertilization, germination.
Carbon-foods of plants, respiration, transpiration; chlorophyll ${ }^{V_{l}}$ starch, sugar.

Use of a systematic key to identify flowering plants, including composites, grasses and ferns.

Sufficient acquaintance with the following to recognize them: common weeds, useful plants and trees of the gardens, fields, of chars and woodlands of the neighborhood.

Phenology of common native plants.
Since the "Seed Control Act" has come into force, farmers throughout minion of Canada have become greatly interested in weeds and weed seeds. will, accordingly, find that a knowledge which will enable them to identify whether beneficial or injurious to the farmers interests, will not only be this but will be greatly appreciated by farmers whose children will engage of sudblif tn the common schools. The same may be said in regard to a knoweogo of which dizens as Black Knot, Apple Scab, Wheat Rust, or Sinut, etc., all of who audied in the course of Biology and Botany.

Reference Books:-The Principles of Botany, Bergen Davis, (Sin \& Co. Boston). Biology. Bailey and Coleman. lan \& Co. New York). (Gray's New Manual! of Botany, 7 th Edition (American Book Co., New York) jube Farm Needs (Department of Agricul Canada)

School (iardening and Horticulture
The educational uses of the cultivation of plants; moral, physical and economic values. The school garden a ${ }^{2}$ study laboratory

Indoor gardening:-The preparation of the soils for potting and seed-planting; putting plants and seeds in pots and window boxes and their care and management.

Study of the germination of seeds and the transplanting, potand re-potting of plants. Testing the vitality of seeds.

The Outdoor School Garden:-Consideration of the situation, are, preparation and fertilization of the soil; selection of suitable Mads of flowers and vegetables: planning and laying out the garden; Panting and seeding the plots and borders; subsequent cultivation care of the garden.

Study of the propagation of plants by seeds, cuttings, budding grafting.

The Home-Garden plot as supplementary to the School garden a substitute for it when the latter cannot be had.

Relation of insects to the plants of field orchard and garden. sous diseases of economic plants.

Arbor Day. Tree raising, tree planting, care of trees.
Reference Book: -The Nursery Book. Bailey. (MacMil-
Co).

## Insects.

The economic phases of insect life will receive special attention. Mutual relations of insects and plants.
Study of at least twenty-five insects in respect to metamorpholad fools.

Study of certain insects, beneficial or injurious, in field. garden, forest and home.
Structure and adaptations to environment.

sification so far a to enable a student to place the common their natural orders and families and the collecting reof the common orders In connection with this work will study means of combating insect $p=3 t$

## Birds.

In this course emphasis will be placed on the study of birds ${ }^{4}$ living animals.

Methods of bird-study in the field.
The careful field-study-appearance, song, flight,-of severis birds of economic interest, our game birds and their protection

The complete life-history of at least two quite different specte of bird.

Nesting habits, song, migration and economic values of birds.
Structure of bill, wing, leg, feathers and adaptations to at vironment.

Recognition of our common birds.
Classification:-The characters of the orders represented in Nova Scotia,--the perchers especially.

Reference Book:-Birds of Eastern North America, Chapman (D. Appleton \& Co.)

## Agriculture.

The types of farming suited to Nova Scotia with a consider ${ }^{48}$ tion of the underlying principles. Comparison of the met ${ }^{\text {tha }}{ }^{\text {ds }}$ pursued by farmers in the various parts of the Province. servation of the methods practised at the College Farm.

Field Crops:-The characteristics of the different crops the methods of successful cultivation of each.

Fertility of the Soil:-Its development and maintena $a^{c c_{i}}$ the principles of the various tillage operations, drainage, rotation of crops, fertilizers.

Implements and labor-saving machinery.
Animal husbandry:--The economic principles involved; typ at and breeds of farm animals including poultry; the necessity ${ }^{\circ}$ and ideal and the methods of realizing it; principles of feeding $E$ management. Observational study of the animals on the perimental Farm.

Reference Books:--Agriculture, Vol. I, II, Brooks. (KingRichardson. Springfield Mass.)
Types and Breeds of Farm Animals, Plumb. (Fin \& Co.)
Other books well be recommended.

## Geology.

The study of the soil as disintegrated rock:--silicates, limestone, gypsum, etc. The rocks to be studied from specimens and as far as possible in their native situation.
illustration geological formations; examination of the local ones; ration of strata, folds, dip, fracture, weathering, etc.
Formation of river-valley, intervale, salt-marsh, springs.
fossils Study of the nature and significance of some of the common found in our coal and limestone beds.
to Review of the geological map of the Piovince,--each student eighty particularly the part of the map treating of his own borhood.
Will Reference Book:-Introduction to Geology, Scott. (Mac\& Co., N Y.)

## Physics.

Making and recording observations upon the elements of her:-temperature, moisture, pressure, wind, cloud, etc.
The principles and the methods of using instruments to mamperature, moisture, etc. Methods of improvising simple of some of these instruments.
Practice in making deductions from the various records kept. The causes and movements of storms.
lever, The study of the principles of mechanics, pressure, force,Wheel, screw, etc,--as applied to farm machinery, pumps, etc. ${ }^{\text {fir }}$, ${ }^{2}$ (Note ,-Students are supposed to begin this course with a (y).

Reference Books:--Practical Physics, Chute. (D. C. Feea ${ }^{\text {th }}$ \& Co.

The Story of the Atmosphere. Douglass. (Appleton \& Co.)
Any good Eiemeniary Treatise on Mechanics.
Sorl Physics.
The methods of taking samples of soil.
Mechanical analysis of three typical soils.
Determination of the percentage of air and water in soil.
Temperature of soil and its modifying factors.
The effects on clay of lime, salt, gypsum and humus.
The relation of size of partic'es of soil to water-holding powet
The capillarity of at least two kinds of soil and the rate of percolation through them. Power of air dry soils to absorb water Texture of soils- heavy and light

Soil Solutions.
Rederence Books ... The Soil, King. (MacMillan \& Co.)

> ChbMistry.

A laboratory course in the chemistry of the farm and ho nigh based on the facts and laws of the science as mastered in the pig school course.

The chemistry of lime as used in whitewash, disinfectan ${ }^{\text {t }}$ Bordeaux mixture and cement.

The chemistry of carbon; combustion; comparison of fule
Water,-qualities of different kinds, testing purity and hard ness.

Soap-making.
Plant and animal proclucts,- testing for potash, phosp ${ }^{\text {pop }}$ phe acid, nitrogen, iron, carbon, calcium in bone, seeds, etc. chemistry of starch, sugar, fat, proteid, milk.

## Fermentation.

Ultimate and proximate composition of soil.
in The chemistry of fertilizers,-testing for elements as above, fertilizt and animal products. Examination of a few commercial ertilizers.

Gides, ${ }^{\text {A }}$ few simple experiments to illustrate the chemistry of fungis, insecticides, paint, dyes, food-preservatives.
Reference Book:-Chemistry of Plant and Animal Life, Snyder.
(MacMillan \& Co.)
Bacteriology.
An introductory study of bacteria.
Relation to health and disease.
trobac bacteria of the soil; nitrification; denitrification; nidavacteria in their relation to leguminous plants; conditions rable to growth of desirable soil-bacteria.
Bacteria in relation to dairying.
Methods of disinfection.
Mracmilliance Book:-Bacteria in Relation to Country Life, Lipman. Millian \& Co.)

## Mechanic Science.

Hort Brush Drawing:-Materials, their preparation and use. A Micat course in impression work and brush drawing proper. Apations to nature work in the other courses.
Tor Paper and Cardboard Modeling:-The necessary drawings thateria development of models. The manipulation of tools and ahd exercise in book-binding.
Press, Wood-work:-The use of the tools. Students to make plant-insect-box and spreading board, or equivalent models.
Saloneference Book:-The Theory of Educational Sloyd, Otto 13 (Geo. Philip \& Son, London, Eng.)

## FACULTY OF THE RURAL SCIENCE SCHOOL WILL BE AS FOLLOWS:

M. Cumming, B. A., B. S. A., Director and Lecturer in Agt culture and Bacteriology.
C. L. Moore, M. A., Vice-Director and Lecturer in Biology.

Assisted by the members of the Faculties of the Provincisl Normal and Agricultural Colleges.
F. G. Matthews, Instructor in Mechanic Science, Music and Photography.

Should there be a large enrolment of students, a further number of lecturers will be secured, whose names will be announced later. In this connection, it wili, greatly assist the mana ment if intending students will make application for trance on or before June 25 Th . Students can, however, apply for entrance up to and including the opening day of the course.

In order to minimize the expenses of teachers attending course, the Provincial Government will pay transportation charget (railway, steamer and coach fares), of all teachers who comple ${ }^{\text {tc }}$ the Course to the satisfaction of the instructors. Attention is al called to the fact that, under regulation 138 of the School Law an additional week or two weeks of vacation may be obtained by teachers taking the Summer Course.

While this course is arranged primanly for teachers, yet aly ${ }^{\prime \prime}$ one who is interested in the study of science may attend the classed and receive a full share of attention from the instructors.

Railways will grant to all attending these classes a single fart on the Siandard Certificate Plan. Those attending should the ing fore be sure to obtain the "Standard Certificate" when purchas a ticket, for only the necessary transportation expenses of teacl can be paid.

For further particulars apply to:-

David Soloan, LL. D.,
Principal Normal College, Truro, N. S.
M. Cumming, B. A., B. S. A.,

Principal Agr. College, Truro, N. S.
A. H. Mackay, LL.D.

Supt. of Education, Halifax, N. S.

## SUPPLEMENTARY CLASSES.

(a)

## PHOTOGRAPHY AND MUSIC.

Sol-Fhould there be a sufficient enrolment, classes in Music (Tonic-
Fa) and Photography will also be provided.
(b)

## PHYSICAL DRILL.

Proficiency in physical exercises is to be imperative on all Public school teachers. To give greater effectiveness to the regulations in the school-law dealing with physical drill in the schools, it is purposed, with the co-operation of the Militia Department of of tha, to provide an instructor in this branch during the session Teac summer classes at the Provincial Institutions in Truro. drill iners will thus be enabled to qualify as instructors in physical drill in their schools as required by the new law.

## (c)

## CLASSES FOR BILINGUAL TEACHERS.

Classes in language-methods for bilingual teachers in Acadian Thools will open on Tuesday, July thirteenth, and continue till sent day, August twelfth. Applications for admission should be School early as possible to the principal of The Provincial Normal ool, Truro.
summ view of the very attractive program of work offered this Culture in the department of advanced biology. elementary agriit is exp, nature-study, music, manual training, and physical drill, expected that the attendance will be large.

Of fully Acadian teachers, it is expected, will avail themselves cartying as possible of the opportunities offered in the above classes, Buage thy back to their schools not only improved methods in lan interesteaching, but an increase of knowledge, a wider range of torefrests, and an enthusiasm which will place their schools in the front of public educational effort.
Schoo The new French Readers cannot be legally used in Acadian in colls if the teachers are not able to teach English effectively Coclloquial fashion, as indicated in the Report of the Acadian ity by mission, 1902, unless they are qualified or have tried to qualy taking this course.

In the language course, model classes of French pupils will be conducted by pupil-teachers, under the direction of the principal of the school.

Travelling expenses at five cents per mile will be paid to students who are regularly employed teachers in Acadian communities, and who speak both languages with fair fluency.

Under regulation 138 an additional week of vacation may be obtained by teachers taking the summer course.

For particulars respecting the Bilingual School apply to

> David Soloan, LL. D., Principal, Normal College, Truro, N. S.

Or to the Instructor,

> Mr. Louis A. D'EnTremont, West Pubnico, $\quad$ Yarmouth Co.

## Summer School of Science.

The twenty-fourth session of the Summer School of Science Will be held at Liverpool, N. S., July 13th to August 3rd. The following subjects are studied at the school.

Agriculture, Botany, Geology, Literature, Physical Science, Physiology, Zoology, Entomology, Drawing, Military Drill, and Physical Culture. The following are the Faculty, Prof. W. W Andrews, LL. D., L. A. DeWolfe, M. Sc., D. S. MeIntosh, M. Sc. A. Starrat, B. Sc., G. J. Oulton, M. A., and P. Barlow.

Elemering the session of the School candidates can qualify for the lementary Certificate for Military Drill and Physical Culture. for $\begin{gathered}\text { Eighteen Scholarships of from } \$ 10.00 \text { to } \$ 20.00 \text { will be offered } \\ \text { competition }\end{gathered}$ ompetition.
ditions Liverpool offers unrivalled attractions both in climatic conans and scenery for a summer meeting.
The expenses will be moderate. The Secretary, Mr. J. D. Seaman, 63 Bayfield Street, Charlottetown, P. E. I., will give any Tmation in reference to the School.
after In preparing for a "Rural Science" diploma, granted only in affitamination and certification by the Rural Science School affiliation with the Normal and Agricultural Colleges at Truro, certified as being in attendance at this summer school on a satisfactory examination has been passed and certified. accepted as the equivalent of the same time required at the Science School itself.

Regul extra week of vacation may be obtained according to persedion 138 when a satisfactory course has been followed and

## RECOMMENDED TO TEACHERS AND FOR SCHOOL LIBRARIES.

Elitementary Agriculture and Nature Study (New Brunswick inches, by John Brittain D. Sc., of the Macdonald College, ( $6 \times 8$ of Res, pp. 318, Educational Book Co., Toronto). The conditions will ba Scotia and New Brunswick are so similar, that this text practically, as useful here as there.

English Spelling and Spelling Reform by Thomas R. Lounsbury. Emeritus Professor of English in Yale University, $5 \frac{1}{2} \times 8$ inches, 357 pages, Harper \& Brothers, New York and London, $\$ 1.50$.

This is the most generally interesting and practically valuable work of this eminently popular world-wide acknowledged authority on English. Every teacher who has to teach, or correct, or talk on or about English spelling, should know what is in this book. So should every educated man, writer, editor and thinker who loves the English language and would save it from the handicap of its orthographic diseases. It should be in every school library.

British Physical Education for Girls. 320 pages, $6 \times 9$ inches, on very superior paper, profusely illustrated, with songs and music, by A. Alex ander, F. R. G. S., and Mrs. Alexander, Principals Southport Physical Training College; late Principals Liverpool Gymnasium; Authors ,', "Physical Training for Children"; "Healthful Exercises for Girls ${ }^{\prime}$ "; 'Modern Gymnastic Exercises", etc., etc. Published by McDougall's Educational Company, Limited, London and Edinburgh.

The preface is written by Dr. Paul Diebow, Director of the Roy ${ }^{\text {al }}$ Gymnastic Institute, Berlin, and Physical Training Expert to the Germal Government.

It is the best looking and most comprehensive book on the subject for Ladies' Colleges, Normal Schools, and even ordinary public school ${ }^{5 / 51}$ of any we have had the opportunity of examining. It will undoubtedly be a good book for every school library as well as for the teacher.

## The Itinerant Agent.

From time to time complaints have reached the Education Office, of Agents with expensive and generally useless books. other nostrums, who are in the habit of visiting schools and using the name of educational officials as a guarantee of the value of what they offer.

This is to warn all teachers, and especially the young or inex perienced, not to have any dealings with such persons. In the Journal will be found all the books recommended by the educal tional authorities. If a teacher wishes to add to her library, it wil be safer to buy through a reliable local dealer, than from an irre sponsible itinerant agent, who should never be permitted to inter rupt the school for a moment.


## Journal of Education.

APERII, 1910.

## OFFICIAL NOTICES.

4th The full number of legal teaching days in the half school year ended
next it is ary was 102; and in the half school year to the end of June
Summer Calendar, 1910.
${ }^{\text {April }}$ May 18. Fourth Quarter of the School term begins.

1. University Post-Graduate Examination Applications.
2. Arbor Day.
3. Empire Day.
4. Victoria Day (Holiday), H. S. Exam. Applications.
5. School flags to be flown in honor of First Natal Day of the South African Confederation.
6. Applications for admission Halifax Military School.
7. Applications for admission, Rural Science School, Truro.
8. Regular Annual meetings of School Sections.
9. County Academy Entrance Examination begins.
10. Provincial Normal College closes, Truro.
11. Last authorized teaching day of school year.

July 1. Dominion Day.
July 4. Provincial Examination week begins.
July y 7. Last day for Annual School Returns to be received.
12. Openings of Summer Schools at Halifax, Truro and Liverpool. (Respectively, the Military, Rural Science, Bilingual and Summer Schools).

1. Next School year begins.
2. Regular opening of Public Schools, First Quarter.
3. Provincial Educational Association meets, Truro.
4. Labor Day (Holiday).
5. Normal College opens at Truro.

Dominion Thanksgiving Day.
14. Second Quarter of School Term begins.

## DATES OF MEETINGS OF BOARDS OF DISTRICT SCHOOL COMMISSIONERS.

*Halifax, Rural-Thursday, May 26th.
$\dagger$ Halifax, East-Thursday, May 12th.
Halifax, West-Thursday, June 9th.
$\ddagger$ Lunenburg and New Dublin-Friday, May 6th.
Chester-Wednesday, June 1st.
North Queens-Wednesday, June 8th.
South Queens-Saturday, May 14th.
Shelburine-Fiday, May 13th.
barrington-Wednesday, May 11th.
Yarmouth-Thursday, June 16th.
Argyle-Firiday, June 17th.
Annapolis West-Monday, June 13th.
Annapolis, East-Tuesday, June 14th.
Digby-Friday, May 20th.
Clare-Monday, May, 16th.
Kings-Tuesday, May 10th.
*At Middle Musquodoboit. $\dagger$ Sheet Harbor. $\ddagger$ Bridgewater.
Hants, West-Firiday, May 13th.
$\rightarrow$ Hants, East-Wednesday, June 15th.
Antigonish-Wednesday, May 11th.
Guysboro-Tuesday, May 17th.
St. Mary-Wednesday, June 1st.
Cape Breton-Tuesday, May 17 th.
Victoria-Wednesday, June 8th.
**Inverness, North-Wednesday, June 1st.
Inverness, South-Tuesday, June 7th.
Richmond-Wednesday, July 13th.
Pretou, South-Thursday, May 12th.
Pictou, North-Firiday, May 13th.
Parrsboro-Wednesday, May 18th.
Cumberland-Wednesday, May 25th.
Colchester, South-Tuesday, May 3rd.
***Col,chester, West-Thursday, May 5th.
Stirling-Friday, May 20th.
-At Elmsdale. **Margaree Forks. ***Great Village.

## DISTRICT SCHOOL COMMISSIONHRS.

(Appointed September, 1st, 1909.)
Queens, Nortif-Rev. T. O'Sullivan, W. Caledonia.
ens, South-Rev. H. I. Haslam, Liverpool. Irederick R. Freeman, Milton. Leander Publicover, White Point. Isaiah Huskins, Port Medway. Rupert H. Gardner, Brooklyn. L. J. Atkins, Port Medway. Dr. F. P. Smith, Mill Village.
(Appointed I'ebruary 23rd, 1910.)
$H_{\text {hlifax }^{\prime}}$ RURAL-Rev. W. J. Fowler, Little River. Rev. W. J. Wright, Middle Musquodoboit.
Inverness, South-Rev. Alex. Ferguson, West Bay. erness, North-Rev. Patrick LeBlanc, Eastern Harbor.

A (Appointed March 29th, 1010.)
ONISH-Rev. Ronald Beaton, Georgeville.
CAPE Brev. Alex. McLeod, Loch Katrin

Duncan Grant Kirk, Antigonish.
${ }^{4}$ Breton-Rev. Angus R. McDonald, Christmas Island.
Rev. L. McMillan, Marion Bridge.
Rev. J. W. McIsaac, Little Bras D'Or.
Rev. M. Campbell, Gabarus.
imeon Comeau, Concessions.
Edward Dugas, Little Brook Station.
 Rev. D. V. Warner, Shelburne. H. H. West, Shelburne.

West-Sidney Stephen, Windsor Junction. Charles C. Mclean, Hubbards.
W. Temple, Waverley.

$\mathrm{SBORO}_{\mathrm{O}}$ - Angus McInnis, Baddeck. - Wm. Cunningham, Guysboro.

Geo. E. Jost, Guysboro.
Rev. Maurice M. Tompkins, Guysboro.
J. A. Fulton, Guysboro.

William Scott, Queensport.
Geo. Aikins, Boylston.

> Sections to ble placed in Second Schedule, 1st August, 1910. Inspectorial Division, No. 3, No. 4. Central Chebogue. Inspectorial Division, No. 6, Antigonish and Guysboro, No. 70. Auld's Cove. Inspectorial Division, No. 7, No. 20. Whitehinond,

## SPECIAL STATISTICS FOR 1910.

The two questions of previous years are to be repeated in this year's Annual return. Teachers are requested to read the de finitions of defectives, and incorrigibles as given in the next pars graph, with thoughtfulness. Inspectors are requested to spec ially report any case in which a teacher may have answered or any other question without evidence of intelligent care.

The blank columns 148, 149 and 150 in the Register and Ar nual Return are to be filled in as follows:-
148.-No. of Defectives of school age in Section.
149.-No. of Incorrigibles of school age in Section.
150.-No. of pupils who have been vaccinated.
"Defectives" are not meant to include the blind and deof, which should be reported in the columns respectively provided for them. Defectives are feeble minded pupils, who have not enough to profit by ordinary school instruction; but who if ${ }^{d r y e d}$ cated might be able to earn a living in some capacity, and be sader from the helpless, if not vicious, condition which is likely to tend them an expense to the public and a menace to the morals of the community. Some of this class may also be more or less defect the in sight or hearing. But neither the School for the Blind nor School for the Deaf have facilities for the education of any 1 arge are not of normal strength of intellect. In many countries a ience proportion of such pupils are trained to considerable intelli port and self-control, and are able to fill useful positions and supp themselves.
"Incorrigibles" mean persons of school age who cannot ${ }^{\text {the }}$ bol
effectively controlled by their parents or guardians, or the $\mathrm{sc}^{\text {hoo }}$ They ${ }^{\text {are }}$ authorities; but who have not yet become criminals. They
habitual truants as a rule, but presumably capable of being trained ${ }^{7}$ a firm, kind and intelligent hand into self-respecting, self-contholled and moral citizens. It is hoped that both teachers and of such will be able to furnish an accurate estimate of the number such pupils in their school section.

## SUPPLEMENTARY ANNUAL RETURN, 1910.

in The following additional information is requested to be sent to ${ }^{\text {with }}$ the Annual returns on a page of letter or foolscap paper, of the Inspector, who after initialling the paper and taking note to thy information he may desire, will send it in a special parcel Superintendent of Education.
Thdividue name, parent or guardian's name, and address of each Return) counted in the following columns of the Register (and 12.

129 (a) Not in attendance at Institution for Deaf and Dumb.
148 (b) Not in attendance at School for Blind.
149 Defectives.
And Incorrigibles.
of the Has there been any regular medical or dental inspection pupils in your school?
B. If so, estimate the number of pupils inspected.
or ${ }^{\text {C. }}$ How many times in the year are pupils inspected? Once
course How many teachers have taken the physical training up to date?
Wijl The names asked for above will not be published. They ply be given to the heads of the institutions provided for those in authority interested in them, for the purpose of ating with the parents; in other respects the names and shall be deemed to be confidential. This return should ned by the Secretary and the principal teacher of the section.
Ind Inspectors will please critically examine, correct, classify and pectora information for each subdivision of their respective in-

## AN ACT TO PROVIDE ANNUITIES FOR INSPECTORS OF SCHOOLS.

Be it enacted by the Governor, Council and Assembly, as follows:-

1. Every School Inspector shall pay annually into the Provincil Treasury the sum of fifty dollars to be applied to the formation of a furb to be known as the "School Inspectors' Annuity Fund."
2. Every School Inspector who has completed thirty years of if if spectorial service shall be entitled on retiring at sixty-five years of alar? or upwards, to an annuity equal to one seventy-fifth of the anmual of such School Inspector at retirement for each year of inspectorial se vice, and in addition the sum of five dollars for each year of service ${ }^{2}$ teacher in the public schools before appointment as Inspector.

Such annuities shall be paid in semi-annual instalments.
3. Every School Inspector who has not reached the age of sistit five years, and who, in the opinion of the Council of Public Instric of efic is by reason of sickness or other permanent disability incapable of ghall ciently performing his duties and of otherwise earning a livelihood, thed of on recommendation of the Council of Public Instruction, be entitiection retirement to a like annuity to that provided in the preceding secil
4. No annuity payable under the preceding sections of this Act shall in any case exceed $\$ 600.00$.
5. Notwithstanding anything contained in the provisions Act, James H. Munro of Yarmouth, late inspector of schools for Districts of Yarmouth and Shelburne, upon his retirement from office after twenty years of Inspectorial service and thirty-five yeat teacher in the public schools, shall be entitled to the annuity provided section 2 hereof, to the same extent as though his retirement had place immediately after the passing of this Act.

## The New Common School Course of Study.

Beginning on page 78 will be found the report of the Com of Sixteen in revision of the course of study for the common ${ }^{S C}$ grades. It is published here so that every one may be able to ${ }^{\text {ta }}$ is it studied before the Educational Convention at Truro, where to be discussed and amended.

In its present form it is not suitable as a handbook for untrained teachers, even in graded schools. In some parts is should be ${ }^{c^{\beta}}{ }^{\beta}$ densed, and in other parts extended, and the whole edited oll uniform plan, to be useful even in graded schools.

For ungraded schools and partially graded schools, it will tave to be still further adapted to the different types. Every one interested in public education, should therefore
commence to study this report at once, so that it may be dealt with
intelligently beoligently and effectively at the Convention. The idea of some people is, that the course of study with full directions for the teachT, should be published in the form of a hand book. It is extremely beportant in such event, that such a guide to the teacher should prepared with much consideration and great care.

Empire Day.
The proper flag for Empire Day is not the Nova Scotian flag, or Old the Canadian flag (so-called). The former is in place on the style 21st of June, the latter on Dominion Day, if the flags at hand. At some celebrations of Empire Day the orators as if it were a Dominion Day occasion.
Pubjijshed Win the last year no less than two little books have been year earlied giving the date of the first Empire Day celebration a the first than the true date, 23 rd May, 1899. Nova Scotia was (18th Ast country to make Empire Day a public school institution, ated August, 1898), although Mrs. Fessenden of Ontario advopreviously a "patriotic day"' which was the origin of the nent in Ontario.
Lord Meath has carried the movement into every part of Whe British empire; but it is the 24th of May, our Victoria day, dda he has been exploiting. Empire Day is a school day in Cana very important school day. Victoria Day is the holiday. ick Lord Meath and the authorities in Ontario and New Bruns$N_{0}$ tecommend the "Union Jack" as the school flag. In Hy Scotia, we found that the "Union Jack"' had a special mean$\mathrm{Red}_{\text {dot }}^{8}$ only as used in the Navy, but as used in the Army. The "nsign which has the "Union Jack" in its upper quarter Sionificays been the democratic Empire flag without any special Was the except the great significance of British citizenship. Wha therefore recommended as the original Empire Day flag in tia. While we are glad to see the "union'' flown anyitself, we need not give up the use of the flag we started The red ensign over a school house will not bring up from the Army or the Navy, under the impression that quarters officer commanding is located there. And
the red fly of the flag makes even the "Union"' more conspiculus against the green foliage in the landscape of every rural school

Every school should have its flag, to be flown on special casions which for the present are left to the judgment of the $t e^{\circ}$ cher and school board. In New Brunswick, certain days are spec ified; and a ritual for saluting the flag is prescribed. We leaving these features to be developed spontaneously, in ord to have an opportunity of discovering by the evolutionary method the most effective form for future general recommendation.

## First Natal Day of United South Africa.

On the 31st of May, Cape Colony, The Transvaal, Natal and the old Orange River Republic will become one British Confeder tion under the name of United South Africa, with Pretoria the capital and Cape town the seat of the Legislature. This is one ${ }^{0}$ the days on which the Empire flag should be flown over every sch ${ }^{10 d}$.

## The Nova Scotia Physical Training System.

The Provinces of Ontario and New Brunswick have adoptel our system of Physical and Military training in the Public schoo ${ }^{15}$ the system also being adopted in the schools of Great Britain Several other provinces of Canada are likely to adopt it with the present year. The system is likely to become universal throug out the empire; so that there shall be one language of $\operatorname{mal}^{0}$ ment, not only in our schools, but in all the schools of Can and probably also throughout the empire. We add the with its uniform drill to the Tennysonian trilogy of empire;

One flag, one fleet, One army, one throne,
For the peace of the people, And the hopes of the home.

## School Readers.

As so many questions have been lately asked with referent to the history and policy of the supply of school readers in $N$ the Scotia and Canada, the following notes may be of interest to public:

## I. Nova Scotian System for Cheap Reading Books.

Since 1867 School Sections have had the power to supply Pupils with school books free, or at half price, or at wholesale rates, any other manner deemed best for all the parties concerned.

## For a few years the Provincial Government aided secrequired paying one half, and then one third of the cost of books

But
even with this inducement all but a very few school 0mpens practically decided, that the advantages gained did not schpensate for the trouble of the interference by temporary the ol officials with the regular distribution of the books through drew thal business channels. The government thereupon withaid this aid without any public objections, and granted increased to poor sections in pioneer settlements.
The reasons why so few of the town and rural school sections stated even venture to try the free supply of books have been as follows:
(a) There is a feeling that to make books free in the common school grades alone
lor the so trifling an easement to even the poor, that it would be no compensation tion and trouble of management and the petty annoyances arising from their distribute massare; while to make them free in the high schools as well would be to make onpll for thes pay for more expensive texts needed by the few. The Readers for a
ta about whole eight years of his common school course will cost on the average
Nlaght to 30 cents per year, and the same books when cared for as pupils should be
${ }^{4}$ persible care for them, may do for several members of the family-there being no
orage cosjection to the use of the same books by members of the same family. The
mon set per year of all the books, copy and even drawing books included, in the
ool course need not amount to seventy-five cents a year on the average.
for (b) There are very strong objections to the use of text books which have been
by bise time in the hands of other and unknown pupils; therefore, every pupil backed ably parents would demand a new book whenever he needed one. This would pro-
s indiouble the number of books used, a reason why publishers are incessant in movdividuals to keep the question before the unthinking public.
for which The personal ownership and care of books is one of the most important things Vice rugal lie pupil should be trained so as to become a habit, in order to prepare him ce of thrifing and the conservation of what he may acquire,--to save him from the tariftlessness, and the thoughtless loss of valuable rproperty.
their As in British Columbia and Alberta, school sections can buy books at wholesale rates and supply them free to their pupils.
Charging in Ontario they can supply them at less than cost but the difference to the public funds.
tands $A_{s}$ in New Brunswick, they can take the business out of the of their people in the regular trade, and give the distribu-
tion of the books to vendors appointed by themselves who will be paid a percentage out of the public funds.

## 2. Advantages and Disadvantages.

Each of these methods has the advantage of supplying the books ostensibly at less than its regular natural cost to the pupl But each has the disadvantages (1) of misleading the public ${ }^{29}$ to the regular natural price or cost of the book; (2) of hiding the actual cost of school book supply by merging the expense with sectional or provincial expenditure; (3) of taking the regulat business of bookselling from those trained to conduct it and depending on it for a living, to a government which can thus in crease its patronage and run the risk of making the books cos actually a great deal more to the country; and (4) of interfering with local matters which can be most economically and correctly managed by those responsible for the general management of the school.

## 3. Our Present Readers.

After holding on to the old Royal Readers for nearly thirty years and being for years nagged at in the press for so doing, Council brought out the present series.

The new Nova Scotian Readers have been edited by one the ablest and most experienced educationists in Canada, Saul, and another of the ablest and most experienced in Greal Britain, Mr. Gunn. The former is the editor of the Morang pub lishing company in Toronto, and the latter of the great Nelso house, Edinburgh. These firms were approved after a searchidg investigation by a committee of nine, which examined the Reader and proposals of publishers in Canada, Great Britain and the United States. And finally the editorial selections and artang ments were subjected by the committee to at least a threefold revision by this committee, which contained the ablest represer tative Educational authorities in Nova Scotia, one of them ${ }^{\text {ater }}$ becoming the Archbishop of the Province, and another the Presi. dent of the University of Saskatchewan. There are no cheapp Readers of equal merit published in Great Britain, Canada, of the United States, it is believed on good authority. And they are sold at this cheap natural price covering the cost of royalty, editorial work, typesetting, stereotype plate-making, printipg' binding and distribution through the regular trade, without making a charge of one dollar on the revenue of the country; and, also it should be said, without interfering with the legitimate busin ${ }^{2}$ of any class of citizens, and without creating a new class of $g 0^{V^{\circ}}$ ernment patronage with all its dangers.

The only complaint persistently coming to the notice of the ducation Department is, that the price of Readers I, II and III, book tow that sufficient discount cannot be given to the retail book trade to cover the cost of freight, handling and unavoidable accidents of bad debts. They handle the books practically without profit, and for the public convenience. The publishers main${ }^{\text {tain }}$ and show evidence for it, that they cannot give larger discounts and continue publishing at the cannot give larger disto the and continue publishing at the prices. The discounts rey appear to be able to publish more economically than the Totonto firm.

Were any of the other methods adopted by the provincial Government, the cost of the books to the province would possibly expense the government would secure more patronage at the divense of the province and displaced trade business, and induals would get some books at less than actual cost.

## 4. Conclusions.

books About forty years ago we tried the plan of cheapening school appare by provincial subsidy. It was given up without any regret, more party. The money was applied where it was evidently needed.

Vide $\begin{aligned} & \text { Our law at present gives full power to school sections to pro- }\end{aligned}$ school books free or at any degree of reduced cost, under supervision where no irregularities can easily be covered up.

To artificially cheapen by subsidy etc., a few books by a few cers, and leave many others to be procured at their natural cost, This is ises the public judgment as to the true cost of books. in this very marked in our province. It has also deceived people province.
${ }^{V a r i}$ Books at the regular natural prices are the easiest of the school needs to be obtained by all. The Provincial subshould be applied for the important needs not so readily yable by parents or school boards.
${ }^{4}{ }^{0} \mathrm{O}_{\mathrm{ur}}$ present plan is the simplest, the fairest to all, and prache cheapest method of book supply; while allowing the under local supervision, the only safe way of doing it, to 14 any all books, partially or entirely free.

## English Spelifing.

When the French take "roast beef" into their own language they simplify the spelling into "rosbif". That is neatly done. Some people under the impression that it is English, use invariably the French "programme," although many English writers, in cluding the great "Journal of Education" published in Londol and Edinburgh, uniformly use the English word "progratl. The newspaper so English as to use "programme" always usee the United States "enrollment" instead of the English "enrolment,' evidently thinking that the one with the extra letter must be English. But this longer spelling never appears in an English Education report.

The fact of the matter is, that most of our busy writers, id cluding university graduates, have never thought of the probletil of spelling, have little knowledge of its history, and have no id ${ }^{\text {d }}$ of what it costs.

In Nova Scotia we have just had to give to our schools in French settlements the privilege of teaching their children in French for the first four years, mainly on account of the difficulty of teaching English to those who cannot speak the language, of account of its spelling,

The same difficulty prevents the French in Quebec and foreigners in the other provinces from acquiring English so rapidly as they otherwise would. It is perfectly impossible for numerous foreign settlers in our Northwest to learn English ${ }^{\text {at }}$ all where they are segregated so as not to hear it commonl spoken.

It takes two years out of the total teaching and studying of English pupils in the common school grades, beyond what as Italian or even a Welsh child needs, to master accurate reading and spelling, as was conclusively shown by Dr. J. H. Gladstode of the London School Board over thirty years ago.

It has been calculated by one of our ablest modern publisherfise that the irregularities of English spelling cost the British Empir and the United States $\$ 100,000,000$ per annum without any $c 0$ pensation, whatever. In the first place, every book, every nef paper published has one seventh more letters than necessaryic takes up one seventh more space than it should, costs the pubich one seventh more than it should-just for the useless letters the ignorant think look so well.

They think the excrescent letters constitute a beauty of the language; when they are not a part of the language at all, eases are really diseases of its written form. They are all, too, disretes of ignorance. And as they handicap the spread of English, the tard its eventual universality, and tax it more extensively than blu most villanous trust in existence, the perpetuation of these of unders is a serious reflection on the knowledge, taste and economics of one persisting consciously in their use.

It is therefore with great satisfaction that we find the intelligent Nova Scotian press sympathetic to the movement of reform. Naturally any change will be somewhat of a nuisance to chinters. Yet while not enjoying the prospect of an immediate mange, they have the disposition not to be hostile to reform, and ments of them are rapidly adopting more or less of the improvelants recommended by the highest scholarly authorities on the anguage.
ing We are just in receipt of communications signed by the leadauthoritipaper publishers, University professors and Educational of Enorities of Chicago, approving of the direction of the reform $\mathrm{glish}^{\text {english }}$ spelling by the simplified spelling Board of the Enof speaking peoples. The managers of all the daily papers approyicago, except two which are not hostile, have expressed the proval of the movement. Both in London and New York, $f_{0}$ uluthorities are preparing a definite list of simplifications-a the new campaign.
$\mathrm{Can}^{0 n}$ every side, the first objection to be heard, is that spelling $N_{0 t}$ on be changed artificially. Nothing less true could be stated. ${ }^{\text {scious only }}$ has nearly every change been made artificially but conimproving. And spelling is at the present time prevented from existed ${ }^{I}$ Nod the tyranny of education laws and examination decrees. dom ova Scotia, we have been the first to win our academic freethe to improve, from both the provincial education system and provin minion civil service. But here we must rest until the other We can of Canada, and the rest of the Empire come up to us. can then take a common step in advance.
${ }^{\text {Sch }}$ In to follow as usual the orthography of our text-books. But of people will be prepared to move in the first rank with the rest sketch Empire when the time comes. For a very interesting 8 mpse of the history of English spelling, and an illuminating of its excessive perversions and its profound defects,

Professor Lounsbury's bright volume entitled "English spelling and spelling Reform' should be read. The greatest language authorities of Great Britain, Australia and New Zealand and the United States, are leading the movement, and guiding it in definite purposeful direction.

Spanish, Italian, German, Welsh and even South Africall Dutch have already been simplified. French had its syntax and some spelling reformed in 1900 after a generation of struggle be tween the Ministry of Education and the Academy. But now ${ }^{2}$ large instalment of spelling reform has been agreed to be made permissive in France. English is the last and worst subject for simplification.

In the meantime it is a good rule to use the simplest forms ${ }^{\text {of }}$ spelling having good authority, especially as soon as they becone passably familiar. But a spelling reformer who finds fault mith the blunders of old English spelling, must be even more severe ${ }^{\text {ol }}$ the introduction of new bad spelling. There is no comfort in the future for the bad speller. The simpler form must have hig authority, or else it is making what is bad, still worse. Journal will join the press of Nova Scotia in cautiously carry out this policy.

## CONCLUSIONS CONCERNING VACCINATION.

The outbreak of what might be termed an epidemic of smand pox in various towns of the province naturally again calls to mil the subject of vaccination. We realize that the successful enforc ment of laws for compulsory vaccination is not an easy thing democratic community like this. The individual who resen being forced to submit to this alleged indignity is apt to himself into that frame of mind where his objection to comp 1 makes him willing to believe that vaccination is useless and dal gerous and objectionable from every standpoint. When he reached this stage he is copab believing the tracts put be the anti pu, , by the anti-vaccination societies and the "Peculiar People. a matter of fact, despite the advances in hygiene of recent if an unvaccinated population were allowed to grow up, the $\mathrm{sc}^{\mathrm{Clum}}$ of smallpox would again be almost constantly in our midst with awful mortality, as it was in the centuries gone by. Just let fuel once accumulate and the catastrophe will follow with a tert certainty. A great German scientist, Dr. J. F. Schamburg, ${ }^{\text {a }}$ recently published an exhaustive and convincing work on subject of Vaccination. His conclusions are thus summed ${ }^{\text {P }}$
1.-Vaccination, when properly and adequately employed,
protects one against smallpox. Even those intimately exposed to the disease, as physicians and nurses in smallpox hospitals, thay be rendered completely immune against smallpox by vaccination and revaccination. 2-Vaccination protects against small$p_{0 x}$ in the same manner that one attack of the smallpox protects against a second manner that one attack of the smallpox protects in that the immunity which it confers against smallpox may be renewed when it becomes impaired or exhausted. 3-Vaccination, in order to confer protection, must be genuine; the mere production of a "sore arm" ' is of itself no proof that the subject has been ${ }^{\text {Course }}$ before a protective substance is left in the body. 4$\mathrm{St}_{\text {thll }}$ before a protective substance is left in the body. 4years to elapse without being revaccinated. 5-Vaccination and revaccinationse without being revaccinated. 5-Vaccination and
smiversally applied are capable of exterminating Smallination universally applied are capable of exterminating

durino as an epidemic disease. The experience of Germany ${ }^{3}$ tances the past thirty-five years proves this. 6-In isolated inmay des, individuals in a generally well-vaccinated community ${ }^{r}$ esult ovelop smallpox because their protection is imperfect as a of tect of the use of an inert virus or because of some other fault the echnic. These cases, however, will never appreciably influence was prevalence of the disease in such a community. 7-Smallpox vaccin ever present and terrible pestilence in the days before rare dination. In most civilized centers it is to-day a relatively by disease. This change has been effected almost exclusively time vaccination. Epidemics of smallpox prevail from time to and when the spark of infection is introduced into the community a sufficient amount of unvaccinated combustible material cination lead to a general conflagration. In countries where vac$p_{0}{ }^{1}$ is is neglected, as in Persia, Asiatic Russia, etc., etc., small${ }^{0} 0 m_{m}$ still a death-dealing scourge. 8-The foes of vaccination $d_{a y} m_{\text {minl }}$ refer to the infrequency of smallpox at the present forget to the remote liability of contracting the disease. They by get that the relative security which we now enjoy is caused argely vanation. This security can be made absolute or it can be are gely destroyed, according as vaccination and revaccination con generally employed or generally neglected. 9-The dangers the octed with vaccination have been greatly exaggerated by skin. Oponents of this measure. Vaccination causes an abrasion of the fecome ind, in rare instances, this wound, like other wounds, may the sele infected, especially when neglected or maltreated. With duriselection of a proper virus and care of the vaccination site an and after vaccination, the risk in any individual instance is entirely negligible quantity.
DT. Editorial in Acadian Recorder, 26 April, 1910. Editor. E. Blackadder.

## NOVA SCOTIA

## LEADS IN TAKING STOCK OF NATURAL RESOURCES

"Gone are the forests primeval", not merely in the storied Grand Pre valley, but throughout the rest of the province of $\mathrm{Nor}^{\mathrm{d}}$ Scotia as well; but that province has still valuable forests jeft and has determined to take measures for their proper use and conservation With this and in view, the provincial authorities during the past summer (1909) began to "take stock" of theif remaining forests and inaugurated a survey of their forest and other crown lands. Nova Scotia is thus the leader among the provinces of the Dominion in making inventory of its forest wealth.

Dr. B. E. Fernow, dean of the Faculty of Forestry of the University of Toronto, was given charge of the survey. Dr. be ${ }^{\text {d }}$ now is one of the pioneers of forestry in America, having be prominently connected with the forestry movement since fores. began to be thought of on this continent. Associated with himl were the Chief Fire Warden of the province and several trained foresters. Only a "reconnaisance", was tempted.

So far the southwestern part of the province, from $\mathrm{Han}^{\text {ts }}$ county westward, has been surveyed. The total area covered about 8500 square miles. The cost of the survey has beer sur prisingly low, averaging less than twenty cents per square mile

In the survey each member of the party was given a certain district and was left to his own discretion as to his method of ${ }^{a^{a^{\circ}}}$ complishing the work in hand. Where practical and advisab records already in existence were utilized, with a view of savil time and expense, as was also information secured from $\mathrm{rem}^{\text {liabl }}$ and well-informed persons having knowledge of certain district the The fieldwork consisted largely in checking this information, in ${ }^{\text {he }}$ study of forest types, etc. This information was plotted in $0^{18}$ field directly on maps (on the scale of two inches to the mile. the these were noted such points as the extent of the burned areas, degree of cutting on cut-over areas, the composition of the for the the condition of the young growth or "reproduction', and ing character of the farming lands, meadows etc., within the fartil country.

Dr. Fernow is hopeful as to the future of the forest. fly writes: "Although the data on reproduction and rate of gro ${ }^{u^{\text {t }}}$ are not yet collected it is safe to say that, if the fires are kept (and apparently with the present organization still further $P_{i b}^{l}$ fected this can be done reasonably well) there is no difficulty restocking by natural means most of the cut-over areas,
too
all teverely culled. . . . In the pure hemlock-spruce stands cleanly is necessary is to remove the old hemlock thoroughly and take to have the young growth of spruce, already on the ground, place.'

Very often, however, in his opinion, the rate of growth of dively is exaggerated. The white spruce, growing in comparayears open situations, may, he thinks, make a sawlog in sixty slowly, The forest spruce, which is largely red spruce, grows more ${ }^{d}$ red $y$, and will probably not average a sawlog in less than a hunyears.

To a large extent difierent species of trees are confined to, or are most numerous in, certain definite areas. The white pine is the most abundantly in Shelburne and parts of Queen's counties $\mathrm{D}_{\mathrm{i} g \mathrm{~b}_{\mathrm{y}}}$ hemlock most prominently in Annapolis and the spruce in by county.

Up to the present, knowledge of Canada's forested areas, the thands of timber thereon and many other questions relating to our of Nor wealth has been almost entirely guesswork. The significance ova Scotia's action is that she has been the first among the proPprowi the Dominion to substitute certain (even though only ullated dmate knowledge for guesses. The province is to be congraon the enterprise she has displayed, and it is to be hoped soe authorities of the Dominion and of the other provinces ${ }^{\mathrm{s} 0} \mathrm{O}$ see their way clear to follow the example thus set.

$$
1-10-18 \mathrm{C}
$$

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Forestry in Nova Scotia


[^0]:    
    

[^1]:    (Section 59.)
    ${ }^{P R O V I N C E ~ O F ~ N O V A ~ S C O T I A . ~}$
    ${ }^{\mathrm{K}_{\mathrm{n}}}$
    fireties) as men by these presents, that we (name of secretary) as principal, and (names of the Grace of Gureties, are held and firmly bound unto our Sovereign Lord Edward VII, sum of God, of the United Kingdom of Great Britain and Ireland, King, etc.,
     mat to be paid to our said Lord the King, his heirs and successors, for the true payhese thereof, we bind ourselves, and each of us, by himself, for the whole and every $\because$ Presents and the heirs, executors and administrators of us and each of us firmly by $\because \cdot$ when, sealed with o
    $\because$ poninted to beas the said .day of. d

[^2]:    *Regulation 110 b showing the detailed syllabus of this post graduate examination will be found following the High Schoel Pro gram on subsequent pages.

[^3]:    ${ }^{\text {fritirely }}{ }^{1} 3$. It has been found very inspiring to devote certain days mome special object the demonstrative effect of which made much more intensive than that of the same time up into a routine of short fragmentary lessons spread over Weeks. Such occasions when managed properly, are of more teaching effect than the ordinary routine day. In fact, accomplish in some cases what could never be accomplishor, atherwise, for they involve extra labor on the part of the teachgenerally also on the part of the pupil.
    of the ${ }^{1} 40$. Arbor Day.--To call special attention to the importance proper management and cultivation of our forests, to the

[^4]:    Eamiltorarical Note.--On the 2nd of December, i897, Mrs. Clementina Fessenden of patriotion, Ontario, addressed a committee of the local school board on the subject of a the Edic day. Subsequently this and other school boards adopted her sugrgestion that Patriotic dion Department of Ontario be asked to set apart one day each year as a Errespotay. The Hon. G. W. Ross, then Minister of Education, arranged, after Educationdence with the Superintendent in Nova Scotia, then president of the Dominion ${ }^{\text {day }}$ danal Association, that it should be proposed to the D. E. A. to recommend that Thatory holibe fixed for the day before Victoria Day, the 2.th of May, which is a of Presidoliday in all Canadian schools, and that it should be called "Empire Day." Th Music, Hent in his opening address, on the and of August, 1898 , in the Academy $D^{\text {de conc, Halifax, presented the proposal, and read the absent Hon. Minister's plea. }}$ by"' to the ion accordingly before its close, on the 5 th August, recommended "Empire by that the several education departments of the Dominion. It was promptly adopted ${ }^{4}$ ools.

[^5]:    By the aid of the table given at the top of pages 3 and 4, the date, such as the 24th of
    14 th danstance, can be readily and accurately converted into the annual date, "the
    alat day of the year," by adding the day of the month given to the annual date of the
    "vere can be brieflyceding month (April in this case), thus: $24 \div 120-144$. The annual
    araged for phenological studies. When the the of dating which can be conveniently
    month we the conversion without error, the day of the year instead of the day of the will be preferred in recording the dates.

[^6]:    Miss M. C. Hewitt--Science Tcacher, Academy, Lunenburg.
    Year only nineteen schedules were received from Queens County, six from the $H_{0 s t}$ hirteen from High Inlands.
     re excellent

[^7]:    To approach now the matter of the three R's. That the public and the school B, and a in confiict as to the great importance of effective instruction in reading, and arithmetic is impossible. The criticism is not infrequently made, howeves

[^8]:    "A facility in reading and writing should not be regarded as an end in itself, then "wise children assume that reading is a tiresome exercise and that writing is a form" "handicraft valuable only to clerks and accountants. The reality of the matter shigible "be brought home to the child's mind that writing is a means for fixing in intelnging "language and character the passing thought; that reading is a means of increas in bly "the stock of words at command, of acquiring new ideas about men and things in "present and past, a resource for leisure, for illness, for old age, an essential not "to success but to pleasure and interest in life."

[^9]:    In conclusion, it remains for us to submit herewith the reports of the various subof sidered, prefacing them with the explanation that the compilers would have them Horough. The general committee, which, it had been hoped, might be in a position to the failed revise and correlate the schedules presented by the sub-committee, has of attaced to find sufficient time and opportunity to do so. It would, however, present $t_{0}$ be revision needed, relying somewhat briefly indicating its views as to the nature complan the noeded, relying upon the consensus of the Provincial Association either bittee to to to be appointed by the Association.

[^10]:    Wheir age first kings were leaders from force of merit and stamped their character upon in Their immediate successors and their nobility were almost the only makers of immeir day and generation. True it is that they may have suppressed nobler could tal in the ignorance of the common people, but until these became active, struggling against kings, growing in many instances weaker.

