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Province of



EDUCATION,

Ontario.

Vol. XXVII.

TORONTO, MAY, 1874.

No. 5.

CONTENTS OF THIS NUMBER.

APPORTIONMENT OF THE LEGISLATIVE SCHOOL GRANT TO PUBLIC SCHOOLS IN ONTARIO, FOR 1874.

Circular to the Clerk of each County, City, Town and Village Municipality in the Province of Ontario.

 S_{IR} ,—I have the honour to transmit herewith a certified copy of the apportionment for the current year, of the Legislative School Grant to each City, Town, Village, and Township in Ontario.

The basis of apportionment to the several Municipalities for this year is the population as enumerated in the census of 1871. The total amount available for apportionment is \$20,000 more

than last year, and in addition to the increased amount available on the basis of population, those Townships in which there are feeble schools and a sparse population have been specially considered in an additional apportionment from the poor School Grant.

Where Roman Catholic Separate Schools exist, the sum apportioned to the Municipality has been divided between the Public and Separate Schools therein, according to the average attendance of pupils of both classes of Schools during last year, as reported and certified by the Trustees.

The grants are, by law, payable on the 1st April, by the Hon. the Provincial Treasurer, on the certificate of the Chief Superintendent. These certificates will be issued on or before 30th June, in favour of those Municipalities which have sent in duly audited school accounts and Inspectors' reports to this office.

I trust that the liberality of your Council will be increased in proportion to the growing necessity and importance of providing for the sound and thorough education of all the youth of the land.

> I am, Sir, your obedient servant, E. RYERSON.

Education Office, Toronto, May, 1874.

Apportionment to Counties for 1874. 1. COUNTY OF GLENGARRY. Townships. Charlottenburgh. *883 00 *81 00	Townships. Apportionment. Matilda \$703 00 Mountain 481 00 Williamsburgh 697 00	5. COUNTY OF RUSSELL. Townships. Apportionment Cambridge \$113 00 Clarence 393 00 Cumberland \$31 00 Russell 345 00
Kenyon		Total
Do for Separate Schools 203 00	4. COUNTY OF PRESCOTT. Alfred \$250 00	Fitzroy
Total for County\$3027 00	Hawkesbury East	March 253 00 Marlborough 312 00 Do for Separate Schools 21 00 Nepean 707 00
2. COUNTY OF STORMONT. Cornwall \$749 00 Finch 403 00 Osnabruck 854 00	Plantagenet, North	Do for Separate Schools 41 00 Osgoode
Osnabruck 403 00 Roxborough 854 00 Total 495 00	209 00 2147 00	150 00 4392 00
φφ2001 00	Total for County\$2356 00	Total for Count\$4542 00

JOURNAL OF EDUCATION.

66

7. COUNTY OF GREN Townships. Augusta	Apporti	5. ionment. \$762 00	11. COUNTY OF FRONTENAC.—Continued. 18. COUNTY OF PETERE Townships. Apportionment. Pittsburgh \$579 00	Apporti	ionm \$320
Augusta Edwardsburgh		778 00	Portland 408 00 Do for Separate Schools	48 00	-
Do for Separate Schools	18 00		Storrington		44(
Gower, South		153 00	Wolfe Island		25
Oxford on Rideau		580 00	Do for Separate Schools 109 00 mouth, Cardiff, and Chandos Douro		200 394
Do for Separate Schools	18 00	376 00	148 00 4024 00 Dummer		287
Wolford			148 00 4024 00 Dysart, Dudley, Harcourt, Guil-		
	36 00	264 9 00	Total for County		249
			Ennismore		165 171
Total for County		\$ 2685 00	12. COUNTY OF ADDINGTON. Galway and Cavendish		10
			Amherst Island \$175 00 Harvey Anglesea and Kaladar 182 00 Minden		175
8. COUNTY OF LE	EDS.		Anglesea and Kaladar 182 00 Minden Camden East 854 00 Monaghan, North		22
Bastard and Burgess, South		\$522 00	Denhigh, Ahinger, Ashby, and Otonabee		57
Crosby, North		314 00	Effingham 144 00 Do for Separate Schools.	17 00	50
Do South		303 00	Ernestown 624 00 Smith		50 16
Elizabethtown		793 00	Sheffield 333 00 Snowdon and Glan.organ Do for Separate Schools 56 00 Stanhope and Sherborne		15
Elmsley, South		183 00	Do for Separate Schools 56 00 Stanhope and Snerborne		
Escott, Front		205 00 423 00	56 00 2312 00	65 00	419
Kitley Leeds and Lansdowne, Front		423 00 555 00			
Do Rear		349 00	Total for County	· · · · · · · · · · · · · · · · · · ·	\$ 425
Do Rear Yonge, Front		246 00	19. COUNTY OF VIC	PODIA	
Yonge and Escott, Rear		248 00	13. COUNTY OF LENNOX. Anson, Hindon, and Lutterworth	IOUIU	\$ 20
Do for Separate Schools	16 00		Adolphustown		19
	16 00	4141 00	Fredericksburgh, North		- 99
	10:00	4141 00	Do South 221 00 Draper, Ryde, and Oakley		- 91
Total for County		\$4157 00	Richmond		4
roun for county			Do for Separate Schools 27 00 Emily		56
			27 00 1067 00 Fenelon		16
9. COUNTY OF LAN	ARK.		Zi ou 1007 ou Baxton, Bigby, and Hongton		0(
Bathurst		\$475 00	Total_for[County		70
Beckwith		290 00	Ops		49
Burgess, North		202 00	14. COUNTY OF PRINCE EDWARD. Somerville		17 17
Dalhousie		$\begin{array}{c} 269 & 00 \\ 118 & 00 \end{array}$	14. COUNTY OF PRINCE EDWARD. Stephenson Ameliasburgh \$487 00 Verulam		10 39
Darling Drummond		364 00	Athol		
Elmsley, North		209 00	Hallowell 524 00 } Total		.\$462
Lanark		335 00	Hillier		
Lavant		70 00	Marysburgh, South		\$76
Montague		470 00	Do North 265 00 Brock Sophiasburgh 399 00 Mara and Rama 399		
Pakenham Ramsay		358 00 475 00	Sophiasburgh 399 00 Mara and Rama ——— Pickering		
Sherbrooke, North		60 00	Total		75
Do South		135 00	Scutt		
			15. COUNTY OF HASTINGS. Scugog Island		13
Total	· · • • • • • • • • • • • • • • • • • •	\$3830_00	Carlow and Mayo		
			Elzevir and Grimsthorpe 229 00 Uxbridge Faraday and Dungannon 121 00 Whitby, East		51
10. COUNTY OF REN	FREW		Hungerford		47
Admaston		\$293 00			
Algona		110 00	Huntingdon	•••••	.\$54
Alice and Fraser		222 00			
Do Separate Schools			Madoc 513 00 21. COUNTY OF Ye Marmora and Lake 251 00 Etobicoke	URR.	\$ 42
Bagot and Blithfield		168 00 91 00	Rawdon	13 00	
Brougham Bromley		178 00	Sidney		2
Do for Separate Schools		10 00	Thurlow 765 00 Gwillimbury, East		50 34
Brudenell, Raglan, Radcliffe and			Tudor, Wollaston, Limerick, and Do North		1 (
Lynedoch		298 00	Cashel 293 00 King Tyendinaga 990 00 Markham		
Grattan	74 00	$152 \ 00$			
Do for Separate Schools Griffith		103 00	Total\$5952 00 Vaughan		
Horton		187 00	Whitchurch		107 74 12
McNab		421 00	16. COUNTY OF NORTHUMBERLAND. York	100	12
Matawatchan		$102 \ 00$	Alnwick	192 00	
Pembroke		96 00	Brighton	205 00	75
Petewawa		116 00	Do for Separate Schools 18 00	200 00	
		162 00	Cramahe		\$77
Rolph and Wylie, Buchanan and		248 00	Haldimand		
Rolph and Wylie, Buchanan and McKay				EEL.	\$5
Rolph and Wylie, Buchanan and McKay Ross Sebastopol		130 00			
Rolph and Wylie, Buchanan and McKay Ross Sebastopol Stafford		$\frac{130}{128} \frac{00}{00}$	Marchan Clauth 100 col and		
Rolph and Wylie, Buchanan and McKay Ross Sebastopol Stafford Westmeath		$\begin{array}{ccc} 130 & 00 \\ 128 & 00 \\ 388 & 00 \end{array}$	Monaghan, South		• 2
Rolph and Wylie, Buchanan and McKay Ross Sebastopol Stafford Westmeath		$\frac{130}{128} \frac{00}{00}$	Monaghan, South 169 00 Caledon Murray 537 00 Chinguacousy Percy 515 00 Gore of Toronto	•	
Rolph and Wylie, Buchanan and McKay Ross Sebastopol Stafford Westmeath		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Monaghan, South 169 00 Caledon Murray	19 00	۵d
Rolph and Wylie, Buchanan and McKay Ross Sebastopol Stafford Westmeath. Wilberforce	133 00	130 00 128 00 388 00 288 00 3881 00	Monaghan, South 169 00 Caledon Murray 537 00 Chinguacousy Percy 515 00 Gore of Toronto Do for Separate Schools 57 00 Do for Separate Schools Seymour 622 00 Toronto	19 00	
Rolph and Wylie, Buchanan and McKay Ross Sebastopol Stafford Westmeath	133 00	130 00 128 00 388 00 288 00 3881 00	Monaghan, South 169 00 Caledon Murray	10.00	330
Rolph and Wylie, Buchanan and McKay Ross Sebastopol Stafford Westmeath. Wilberforce	133 00	130 00 128 00 388 00 288 00 3881 00	Monaghan, South 169 00 Caledon Murray 537 00 Chinguacousy Percy 515 00 Gore of Toronto Do for Separate Schools 57 00 Do for Separate Schools Seymour 622 00 Toronto	10.00	33
Rolph and Wylie, Buchanan and McKay Ross Sebastopol Stafford Westmeath	133 00	130 00 128 00 388 00 288 00 3881 00 3881 00 \$4014 00	Monaghan, South 169 00 Caledon Murray 537 00 Chinguacousy Percy 515 00 Gore of Toronto Do for Separate Schools 57 00 Do for Separate Schools	19 00	33
Rolph and Wylie, Buchanan and McKay Ross Sebastopol Stafford Westmeath Wilberforce Total for County 11. COUNTY OF FROM		130 00 128 00 388 00 288 00 <u>3881 00</u> 34014 00 .C.	Monaghan, South	19 00	33 \$33
Rolph and Wylie, Buchanan and McKay Sess Sebastopol Stafford Westmeath	133 00 NTENA	130 00 128 00 388 00 288 00 3881 00 \$4014 00 \$4014 00 .C. \$105 00	Monaghan, South	19 00	33 \$33
Rolph and Wylie, Buchanan and McKay Ross Sebastopol Stafford Westmeath Wilberforce Total for County 11. COUNTY OF FROM Barrie Bedford	133 00 NTENA	130 00 128 00 388 00 288 00 3881 00 3881 00 3881 00 3881 00 6.C. \$105 00 271 00	Monaghan, South	19 00	33 \$33
Rolph and Wylie, Buchanan and McKay Ross. Sebastopol Stafford Westmeath. Wilberforce Total for County 11. COUNTY OF FROM Barrie Bedford Clarendon and Miller	133 00 NTENA	130 00 128 00 388 00 288 00 3881 00 \$4014 00 C. \$105 00 271 00 135 00	Monaghan, South	19 00 100E.	33 \$33
Rolph and Wylie, Buchanan and McKay Ross Sebastopol Stafford Westmeath. Wilberforce Total for County 11. COUNTY OF FROM Barrie Bedford Clarendon and Miller Hinchinbrooke	133 00 NTENA	130 00 128 00 388 00 288 00 3881 00 3881 00 3881 00 3881 00 6.C. \$105 00 271 00	Monaghan, South	19 00 100E.	330 \$331 \$42 65 24
Rolph and Wylie, Buchanan and McKay Ross Sebastopol Stafford Westmeath Wilberforce Total for County		130 00 128 00 388 00 288 00 3881 00 \$4014 00 \$105 00 271 00 135 00 176 00 139 00	Monaghan, South	19 00 ACOE.	330 \$331 \$42 65 24 44 71
Rolph and Wylie, Buchanan and McKay Noss Sebastopol Stafford Wilberforce Total for County 11. COUNTY OF FROM Barrie Bedford Clarendon and Miller Hinchinbrooke Howe Island Kennebec		130 00 128 00 388 00 288 00 3881 00 3881 00 3881 00 3881 00 3881 00 271 00 135 00 271 00 135 00 135 00 135 00 135 00	Monaghan, South	19 00 ACOE.	330 \$331 \$42 65 24 44 71
Rolph and Wylie, Buchanan and McKay Noss Sebastopol Stafford Westmeath. Wilberforce 11. COUNTY OF FROM Barrie Bedford Clarendon and Miller Hinchinbrooke Howe Island Kennebec Kingston Do for Separate Schools.	133 00 NTENA 39 00	130 00 128 00 388 00 288 00 3881 00 3 4014 00 C. \$105 00 271 00 135 00 176 00 118 00 139 00 566 06	Monaghan, South	19 00 ACOE. 20 00	330 \$331 \$42 65 24 44 71
Rolph and Wylie, Buchanan and McKay Noss Sebastopol Stafford Westmeath Wilberforce 11. COUNTY OF FROM Barrie Bedford Clarendon and Miller Hinchinbrooke Howe Island Kennebec Kingston Do for Separate Schools Loughboro'	133 00 NTENA 39 00	130 00 128 00 388 00 288 00 3881 00 \$4014 00 CC. \$105 00 135 00 139 00 566 06 350 00	Monaghan, South	19 00 ACOE. 20 00	330 \$331 \$42 62 25 44 78 37 55
Rolph and Wylie, Buchanan and McKay Noss Sebastopol Stafford Westmeath. Wilberforce 11. COUNTY OF FROM Barrie Bedford Clarendon and Miller Hinchinbrooke Howe Island Kennebec Kingston Do for Separate Schools.	133 00 NTENA 39 00	130 00 128 00 388 00 288 00 3881 00 3 4014 00 C. \$105 00 271 00 135 00 176 00 118 00 139 00 566 06	Monaghan, South	19 00 MCOE. 20 00	88 330 \$331 \$422 25 44 78 37 58 17 18

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23. COUNTY OF SIMCOE.		inued. ionment.	30. COUNTY OF NOI Townships.		ionment.	35. COUNTY OF PE Townships.	Apporti	ionme
ulmur	apport	517 00	Charlotteville	11pport	\$604 00	Blanchard		\$576
ottawasaga		782 00	Houghton		312 00	Downie		511
illia and Matchedash		223 00	Middleton		481 00	Do for Separate Schools	43 00	
Do for Separate Schools	56 00		Townsend		807 00	Easthope, North		442
0		644 00	Walsingham		780 00	Do South		337 403
Innidale		294 00	Windham		680 00	Ellice	23 00	405
у		240 00	Do for Separate Schools. Woodhouse		570 00	Do for Separate School Elma	23 00	533
ny ecumseth		474 00 697 00	woodhouse			Fullarton		429
ossorontio		232 00		28 00	4234 00	Hibbert		498
espra.		284 00				Logan		473
Do for Separate Schools	22 00	-01 00	Total for County	. . . 	\$4262 00	Mornington		543
	<u> </u>				1	Do for Separate Schools.	18 00	
	98 00	8413 00		TODD		Wallace		528
			31. COUNTY OF OX		\$296 00	_	04 00	E079
Total for County	••••	\$8511 00	BlandfordBlenheim		\$290 00 944 00	•	84 00	5275
	mon		Dereham		625 00	Total for County		\$5357
24. COUNTY OF HAI	JION.		Nissouri, East		541 00	10tal for County	••••••••••	φυυυι
quesing ssagaweya		\$784 00 437 00	Norwich, North		490 00			
elson		558 00	Do South		476 00	36. COUNTY OF HU		
afalgar		741 00	Oxford, North		274 00	Ashfield		\$374
and Bar			Do East		385 00	Colborne		358
Total		\$2520_00	Do West		414 00	Goderich		533
			Zorra, East			Grey		514
			Do West		501 00	Hay		571
25. COUNTY OF WENT	WORT					Howick		799
caster		\$738 00	Total	•••••	.\$5627 00	Hullett	66.00	521
rton		423 00				Do for Separate School	22 00	562
verley		856 00	32. COUNTY OF WAT	ERLO	o. I	McKillop Morris		502 522
nbrooke		287 00	Dumfries, North		\$580 00	Stanley		562
amborough, East	19	562 00	Waterloo		1157 00	Stephen		452
Do for Separate Schools Do West	14 00	470 00	Wellesley		738 00	Do for Separate School	89 00	104
Do for Separate Schools	33 00	HIU UU	Do for Separate Schools	105 00		Tuckersmith		545
anford	55 00	300 00	Wilmot		791 00	Turnberry		295
ltfleet		410 00	Do for Separate Schools	66 00		Usborne		522
			Woolwich		822 00	Wawanosh, East		391
	45 00	4046 00				Do West		382
	10 00			171 00	4088 00	Do for Separate School	23 00	
Total for County		.\$4091 00						
			Total for County	••••••	.\$4259 00		134 00	8103
26. COUNTY OF BR.	ANT.							0000
antford		\$1011 00	33. COUNTY OF WELL	INCT	ON	Total for County	•••••	\$8237
rord		818 00	Amaranth		\$287 00			
Infries. South		512 00	Arthur		429 00	37. COUNTY OF BI	RUCE	
Wand		164 00	Do for Separate Schools			Albemarle and Eastnor		000F
londaga		284 00	Eramosa		554 00	Albemarie and Lastnor		\$205 266
			Erin		786 00	Amabei		200
Total	•••••	.\$2789 00	Garafraxa, East		381 00	Brant		726
			Do West		461 00	Bruce		555
27. COUNTY OF LIN	COLN		Guelph		436 00	Carrick		698
listor		\$319 00	Luther		261 00	Do for Separate School	. 40 06	
10Ion		410 00	Maryborough		652 00	Culross		566
Insborough		445 00	Minto		447 00	Elderslie		361
antham		304 00	Nichol Do for Separate Schools	07.00	377 00	Greenock		440
	$58 \ 00$		Pool	. 21 00	760 00	Huron		602
Timsby		461 00	Peel Do for Separate Schools	85.00		Kincardine		604 504
		279 00	Pilkington		292 00	Kinloss		506 240
lagara		309 00	Do for Separate Schools			Saugeen		240
	50 00	0*0* **	Puslinch		667 00		40 00	6327
	00 6G	2527 00					10 00	
Total for County		SOFEE M		262 00	6790 00	Total for County		.\$6367
Total for County	•••••••••	.02000 00				10000 for county		
			Total for County		.\$7052 00			
28. COUNTY OF WEL	LANI).			-	38. COUNTY OF MID	DLESE	Х.
ertia	-	\$433 00	94 0011010	101017		Adelaide		\$429
		194 00	34. COUNTY OF C			Biddulph		433
umberstone		365 00	Artemesia	•	\$493 00			
		371 00	Do for Separate Schools	. 21 00)	Caradoc		747
D D		427 00	Bentinck		602 00			374
Do for Separate Schools			Collingwood		527 00			607
borold		369 00	Derby		289 00			471
illoughby		394 00			581 00			512 1621
-чепру		184 00			428 00			675
	15 00	2737 00	Glenelg Do for Separate Schools		486 00	Do for Separate School.		
	10 00		Holland		453 00			361
Total for County		\$2752 00	Do for Separate Schools			Mosa		355
			Keppel and Brooke		321 00			52
29. COUNTY OF HALD	IMAN	ND.	Melancthon		306 00	Westminster		911
		\$178 00			786 00	Do for Separate School	. 31 00)
		297 00	Do for Separate Schools)	Williams, East		421
Do South		143 00			447 00	Do West		233
Do South Junn Joulton and Sherbrooke		155 00	Proton	•	291 00			I.
YUITON 1 OL . 1 . 1		310 00				-		
haid and Sherbrooke		440 00			151 00		169 00	8677
deida.	20 00	;	St. Vincent		734 00			
Do for Separate Schools		305 00	Sullivan	•	457 00			.\$8840
Do for Separate Schools								
Do for Separate Schools		484 00						
ueida Do for Separate Schools ainham eneca		484 00 797 00	Sydenham		554 00	OF COUNTY OF F	TOTA	
Do for Separate Schools		484 00 797 00				39. COUNTY OF E		
ueida Do for Separate Schools ainham eneca	11 00	484 00 797 00	Do for Separate Schools) 	39. COUNTY OF E		\$ 51'
ueida Do for Separate Schools ainham sneca (alpole		484 00 797 00	Do for Separate Schools) 	39. COUNTY OF E	 	\$ 51 72 30

JOURNAL OF EDUCATION.

39. COUNT	TY OF EL				JNTY OF	LAMBTO	N.	42. COUNT	TY OF ES	SEX.—Con	tinued.
Townships. Malahide			rtionment. \$688_00				Apportionment, San				
Southwold		• • • • • • • •	820 00	Brooke		•••••••	374 00	Malden			230 00
Yarmouth	••••••••••	•••••	821 00	Dawn Enniskillen	••••••	•••••••	$ \begin{array}{r} 165 & 00 \\ 225 & 00 \end{array} $	Mersea			$479 00 \\ 317 00$
Total			\$4423 00	Euphemia			$\frac{225}{352}$ 00	Rochester Sandwich, East			553 00
40 C	OUNTY (- OF KENT.		Moore Do for Separ			557 00	Do West	t		$\begin{array}{cccc} 329 & 00 \\ 353 & 00 \end{array}$
Camden			\$431 00	Plympton			572 00	Tilbury, West Peleé Island	· · · · · · · · · · · · · · · · · · ·	·····	305 00
Chatham Dover			$\begin{array}{c} 643 & 00 \\ 489 & 00 \end{array}$	Sarnia Sombra			$507 \ 00 \\ 441 \ 00$			60.0	0 3656 00
Harwich			851 00	Do for Sepa	rate Schoo	l 61 00	941.00				
	arate Schoo		0 666 00	Warwick	•• •••••		490 00	Total fo	or County	•••••	\$3716 00
Howard Orford			459 00			94 00	4328 00			-	
Raleigh			500 00	Total f	or Countr		Q1199_00		DISTRIC	TS	
Do for Sep Romney	arate Schoo	1 102 0	105 00	LOCALIN				Nipissing			004.00 .
Tilbury, East		·····	272 00	49 C	MINTY (OF ESSEX.		Muskoka			264 00 · 278 00
Zone	••••••	·····	160 00				219 00	Parry Sound			218 00 224 0 0
		132 0	0 4576 00	Do for S	eparate Scl	1)	Manitoulin			224 00 297 00
Total fo	or County		\$4708 00	Colchester Gosfield			$ \$431 \ 00 \\ 442 \ 00 $	Algoma			739 00
				<u> </u>							100 00
Apportion	ment to	Cities.	Towns.	VILLAGES.	S cts	S cts.	\$ ets.	VILLAGES.	\$ cts.	S cts.	\$ cts.
and	Villages	for 1874	4.	Acton	192 04)	123 00				200 00
·			·	Almonte	307-00)	307 00	Smith's Falls	170.00		170.00
		R. C.		Amprior		12 00	$\begin{array}{ccc} 253 & 00 \\ 115 & 00 \end{array}$	Southampton	129 00		199.00
CITIES.	Public Schools.	R. C. Separate	Total.	Arthur Ashburnham	73 00 177 90)	177 00	Stirling	115 00		$ \begin{array}{c} 120 \\ 208 \\ 00 \\ 115 \\ 00 \\ 0 \end{array} $
	Benoois.	Schools.		Aurora	167 00)	167 00	Streetsville	90 00		00.02
				Aylmer Bath	89 00) 	$\begin{array}{c}132 \\ 89 \\ 00\end{array}$	Thamesville Thorold	$116 \ 00 \\ 172 \ 00$	68 00	$\begin{array}{c} 116 & 00 \\ 240 & 00 \end{array}$
			3 . 4 .	Bolton		Q	118 00	Trenton	* 265 00		065 W
Hamilton	\$ cts. 3204 00	\$ cts. 737 00	\$ cts. 3941 00	Bradford Brighton		8	$ \begin{array}{r} 167 & 00 \\ 200 & 00 \end{array} $	Uxbridge Vienna	219 00 87 00		$ \begin{array}{c} 200 \\ 219 \\ 00 \\ 87 \\ 00$
Kingston	1230 00	600 00	1830 00	Brussels	115 00)	115 00	Wardsville	80.00		· 00 (N
London Ottawa	$\begin{array}{c c} 2047 & 00 \\ 1476 & 00 \end{array}$	$\begin{array}{r} 287 & 00 \\ 1702 & 00 \end{array}$	$2334 \ 00 \\ 3178 \ 00$	Burlington Caledonia	123 00)) 	$123 \ 00 \\ 184 \ 00$		235 00		$235 & 00 \\ 133 & 00 \\ 00$
Toronto	5880 00	2394 00	8274 00	Carleton Place.	178 00)	178 00	Welland	166 00		1 CG 11V
	13837 00	5720 00	19557 00	Cayuga Chippawa)	$118 00 \\ 136 00$	Wellington Wingham	78 00		$100 \\ 78 \\ 00 \\ 178 \\ 00 \\ 00 \\ 00 \\ 00 \\ 00 \\ 00 \\ 00 \\ $
BOWNE	i			Clifford	122 00)	$122 \ 00$	Wyoming	116 00		116 (19
TOWNS.	\$ cts.	\$ cts.	\$ cts.	Clinton Colborne	297 00 120 00)	$\begin{array}{c} 297 & 00 \\ 120 & 00 \end{array}$	Yorkville	321 00		321 00
Amherstburgh.	130 00	155 00	285 00	Dresden	149 00)	149 00	Total	14073 00	726 00	14799 00
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MINUTES, COUNCIL OF PUBLIC INSTRUCTION.

Report of the proceedings at a meeting of the Council of Public Instruction held May 1st., 1874. Published as authorized by the 24 Section of the Act to amend and consolidate the law relating to the Council, &c.

No. 368.

COUNCIL ROOM.

EDUCATION OFFICE, May 1st., 1874.

The Council met, pursuant to notice, at three o'clock, P.M., the Very Reverend H. J. Grasett, B.D., in the Chair.

Present : The Chairman.

The Chief Superintendent of Education.

The Venerable T. B. Fuller, D.D.

William McCabe, Esq., LL.B.

Hammell M. Deroche, Esq., M.A., M.P.P.

The minutes of the preceding meeting were read and approved. The following communications were laid before the Council :--

- ²⁶⁵³ From Mr. A. P. Knight, M.A., Hawkesbury, respecting the revision of the Agricultural Chemistry.
- 2923 From the Asst. Provincial Secretary, transmitting the order approving of certain High School regulations.
- 3850 From Messrs. Adam, Stevenson & Co., respecting the effect of the copyright regulations, &c.
- 5495 From the same, requesting a reply, and making inquiries as to book lists.
- 4811 From the Chairman of the Committee of Examiners, recommending the establishment of a grade C, as well as A and B for First Class Certificates.
- ⁵⁰⁵⁵ From Mr. W. Warwick, submitting specimens of binding for the second book.
- ⁵¹⁵¹ From Mr. S. Graham, respecting the teaching of Phonetic Shorthand.
- 5909 From the Chairman of the Committee of Examiners, respecting the time for High School Entrance Examinations.
- 6418 From the Inspector of the Town of Brockville, on the same subject.
- 5455 From the Inspector of the County of Durham, on the same subject
- 6102 and 6413 From the Chairman of the Committee of Examiners, respecting the preparation of the examination papers. 6220 From the Principal of the Normal School, respecting the Ex-
- amination of the Students.
- 6476 From the Secretary of the Senate of Queen's University, Kingston, reporting the election of the Very Rev. Principal Snodgrass, D.D., as the Representative of Queen's College in the Council of Public Instruction.

The Chief Superintendent suggested that in consequence of the change in the law, the Council should confine itself to necessary and routine business until the new members were elected, which was concurred in.

The members present then proceeded to draw lots as to the dates on which they should respectively retire, as required by the new law, with the following result :---

The Very Reverend H. J. Grasett, to retire August, 1875. The Venerable T. B. Fuller, to retire August, 1876. William McCabe, Esquire, LL.B., to retire August, 1875.

Hammell M. Deroche, Esquire, M.A., to retire August, 1876.

The Clerk was then instructed to draw for the absent members in succession, which resulted as follows :-

The Reverend J. Jennings, D.D., to retire August, 1875.

The Honourable W. McMaster, to retire August, 1875. The Most Reverend J. J. Lynch, D.D., to retire August, 1876. James Maclennan, Esquire, Q.C., to retire August, 1876.

Ordered, That a grade C, as well as grades A and B of First Class Provincial Certificates be authorized according to the recommendation of the Central Committee.

Ordered, That the next Entrance Examinations of pupils for admission to the High Schools and Collegiate Institutes, take place on the 29th and 30th days of June next, according to the recommendation of the High School Inspectors.

Ordered, That the Chief Superintendent be requested to instruct the Central Committee for the examination of Public School Teachers, to prepare the examination papers for the admission of pupils to the High Schools and Collegiate Institutes according to the standard of admission prescribed by the regulations approved by the Lieutenant-Governor in Council.

Ordered, That the Chief Superintendent be requested to instruct the same Committee to prepare the examination papers for the examination and classification of students at the Normal School, and for the examination and classification of Public School teachers, according to the legally prescribed programmes.

Ordered, That the examination for Public School Teachers' certificates of the second and third classes commence on Monday, 20th July next, and for first class on Monday, 27th July.

The Chief Superintendent was requested to inform the publishers and others who may inquire or may have inquired respecting the proposed action of the Council as to the approval of books, that such action will be deferred till the election of the new members of the Council.

The following applications for pensions from the Superannuated Teachers' Fund were approved, viz :-5150 William Armstrong of Euphemia for 45 years service

9190	william Armstrong, or Eupheima, for	40 years	service.
271	Joseph Dean Booth, of Bradford,	21	do
3954	Michael Brennan, of Collingwood,	16	do
5597	Henry Beuglet, of Rochester,	21	do
5449	Patrick Donovan, of Burritt's Rapids,	28	do
896	John Fraser, of Weston,	16	do
5149	John Isbister, of Morris,	$15\frac{1}{2}$	do
5447	Barbara A. Irvine, of Kingston,	22	do
3956	Robert Martin, of Richmond,	26	do
2493	Archibald McSween, of Pickering,	20	do
	Daniel McRae, of Kingston,	14	do
	Timothy J. Newman, of Flam-		
	borough West,	23	do
1572	Robert Power, of Huntley,	23 1	do
2549	James Quin, of Ottawa,	13	do
3486	James Scott, of Delaware,	14	do
8648	James Simpson, of Osgoode,	10	do

The time of service claimed by Mr. McRae is 24, and by Mr. Quin 22 years. The Chief Superintendent was authorized to allow the additional time, on the production of the proper evidence, in both these cases.

The following applications were also approved, but upon condi-tion that the Honorable Attorney-General gives a favourable opinion as to the eligibility of the candidates under the legal requirement as to subscriptions due, viz :-

10802	Bernard Boyd, of	South Douro,	for	18 y	ears service.
	Francis Reynolds,			14	do

6018 Donald Peter McDonald, of St.

Catharines (claims 44, proved 40) 40 do

The applications of (11736) C. F. Russell, and (5246) James Elliott were deferred for further inquiry, and the application of (13545) Timothy McQueen was not approved. Adjourned.

H. J. GRASETT, Chairman.

Certified, ALEX. MARLING, Clerk of the Council.

Education Office, Toronto, May 1st, 1874.

No. 370.

No. 369.	COUNCIL ROOM, EDUCATION OFFICE,
	TORONTO, May 8th, 1874.

The Council met, pursuant to notice, at three o'clock, p.m.-Hammell M. Deroche, Esq., M.A., M.P.P., in the chair.

Present-The Chairman pro tempore. The Chief Superintendent of Education. The Venerable T. B. Fuller, D.D. William McCabe, Esquire, LL.B.

1. The following communications were laid before the Council :-

Representative of University College in the Council of Public Province, under the authority of this Council; therefore Resolved, Instruction.

6785 From the Master of the Boys' Model School, resigning his position, in consequence of his appointment as Inspector of Public Schools in Toronto.

6751 From the Principal of the Normal School, reporting that His Excellency the Governor-General had granted a silver medal for the Normal School, and one for each of the Model Schools.

6752 From the same, making a recommendation as to filling the vacancy in the Model School.

6773 From Messrs. Adam, Stevenson & Co., referring to previous communications.

2. Ordered-That the resignation of Mr. Hughes be accepted, to take effect, as he requests, on 15th May. That Mr. Scott be promoted to the Mastership of the Model School, Mr. McPhedrain to be first assistant, Mr. Davison to be second assistant.

3. Ordered-That in accepting the resignation of Mr. Hughes, this Council has pleasure in expressing its high sense of the ability, diligence and success with which Mr. Hughes has discharged his duties as a teacher in the Boys' Model School during his seven years' con-nexion with it, and the desire of this Council for his future success and happiness in the important office of City Inspector of Public Schools

4. The following notices of motion were given :--

(1.) Mr. McCabe will move at the next meeting :--- That applications for the vacancy in the mastership of the 4th Division in the Boys' Model School, from teachers holding first class Normal School certificates, be solicited by advertisement in the daily Mail and Globe, for such time as the Chief Superintendent may think necessary.

(2.) Mr. McCabe will move at the next meeting :---That a regulation be adopted by the Council, making but one session of the Normal School each year, and fixing its close at such time that the examination of students of that institution, and other candidates for certificates of qualification as teachers shall take place at the same time.

5. The following applications for pensions from the Superannuated Teachers' Fund were approved :

949 Thomas Chaplin, of Campbellford, for 16 years' service, conditional upon an annual certificate of continued disability.

3641 James Cooke, of Portland, for 16 years' service, on the same condition.

6543 Mrs. Frances Johnson, of Brockville, for 19 years' service, on the same condition.

5727 Robert Rooney, of Arthur, for 23 years' service, on the same condition.

788 John Gibbs, of Cannington, for 18 years' service.

4086 Robert Kerr, of Vaughan, for 28 years' service.

262 Charles Macartney, of Flamboro' West, for 15 years' service.

6601 Samuel James Trew, of Caledon, for 24 years' service.

Adjourned.

(Signed)	HAMMELL M. DEROCHE,
Certified	Chairman,
ALEX. MARLING,	Pro tempore.
Clerk of the Counsil.	

Education Office. Toronto, May 8th, 1874.

COUNCIL ROOM,

Education Office, May 21st, 1874. The Council met, pursuant to notice, at three o'clock P.M., the Very Reverend H. J. Grassett, B.D., in the chair.

Present :--- The Chairman. The Chief Superintendent of Education. William McCabe, Esquire, LL.B. Hammell M. Deroche, Esq., M.A., M.P.P.

1. It was moved by Mr. McCabe, seconded by Mr. Deroche :-That whereas there is on the public mind an impression, more or less 6637 From the Registrar of University College, Toronto, general, that Dr. J. H. Sangster, at one time Principal of the Nor-reporting the election of the Rev. John McCaul, LL.D., as the mal School, has taken part in Teachers' Institutes throughout the that this Council has in no way whatever sanctioned, authorized, or recognised for any purpose or in any capacity whatever, the connec-tion of said Dr. Sangster with such Institutes or with any other public educational work, since he ceased to be Principal of the Normal School in July, 1871, nor had this Council any legal right to so authorize him.

> Moved in amendment by the Reverend the Chief Superintendent and seconded by the Very Reverend H. J. Grassett, B.D.:-That certain statements having appeared in the newspapers as to this Council having authorized the holding of Teachers' Institutes,

> Ordered, That as the law does not authorize this Council to appoint any Teachers' Institute, much less to authorize any person to hold such Institute, this Council has never taken upon itself to appoint such an Institute or any person to conduct it.

Amendment carried, the Chairman giving his second vote.

2. The following communications were laid before the Council.

6996. From the Principal of the Normal School, respecting appointments in the Model School.

7194. From the same, respecting the duration of the sessions of the Normal School, and transmitting the opinions of (7195) the Mathematical Master, and (7196) of the Science Master.

7156. From the Chairman of the Central Committee, transmitting the opinion of the High School Inspectors respecting the time of holding entrance examinations.

6474. From the Inspector of the County of Stormont, as to a modification of the regulations respecting third Class Certificates.

7157. From the Chairman of the Central Committee, giving the opinion of his Committee on the point raised in the letter of the Inspector of Stormont.

7129. From Messrs. James Campbell & Son, being a list of books with prices of the same, for approval.

7095. From the Reverend the Provost of Trinity College, reporting the election of the Reverend Professor Ambery as the Representative of Trinity College in the Council of Public Instruction.

14072. From the Inspector of South Hastings, respecting certain proceedings of Mr. W. J. Byam.

6265. From the same, on the same subject.

5721. From the Principal of the Normal School, on the same subject.

Also the circular and forms issued to Publishers, respecting books for approval.

3. The Chief Superintendent reported that in the opinion of the Honorable the Attorney-General the literal terms of the law were adverse to the admission to pensions from the Superannuated Teachers' Fund, of those candidates whose cases were reserved for his opinion.

4. Respecting the letter of the Inspector of Stormont, the opinion of the Council was, that the present regulation as to third Class Certificates does not require amendment.

5. The Chief Superintendent proposed the following minute, the consideration of which was deferred :---

That Head Masters of High Schools and Graduates in Arts of any University in the British Dominions, if successful teachers, as by tested to the satisfaction of the Central Committee appointed by the Council of Public Instruction, may be admitted to the examina-tion for first Class Certificates without previously obtaining third and second Class Certificate and second Class Certificates.

6. The motion of which notice was given, respecting the Normal School session, was left over by request of the Chief Superintendent. 7. Ordered, That any lists and books for libraries and prizes, sub-mitted by publishers and others, be referred to Messrs. McCabe, time to time.

8. Ordered, That applications for the vacancy in the fourth division in the Boys' Model School, from teachers holding First Class Normal School Certificates, be solicited by advertisement in the daily Mail and Globe, for such time as the Chief Superintendent may think necessary.

9. The Chief Superintendent was authorized to intimate that the Spring Term of the High Schools shall this year close on Friday, 26th June, in order to facilitate the holding of the entrance examinations on the 29th and 30th of that month.

(Signed)

Adjourned.

H. J. GRASETT, Chairman.

ALEX. MARLING, Clerk of the Council.

Education Office,

(Certified.)

Toronto, May 21st, 1874.

I. Lapers on Literary and Scientific Subjects.

THE NEW ENGLISH DICTIONARY.

An elaborate article in the Quarterly Review, after giving an hisbrical sketch of dictionary-making for the English language, and Particularly describing the dictionaries by Bailey, Johnson, Web-ster, and Worcester, proceeds to give an account of the labours of

the Philological Society in England, as follows: "It is clear from this account of existing English dictionaries, that the Philological Society had good cause to set about constructing a new one. At the outset, however, their scheme was not de-vised to remedy the special defaults which we have as yet dwelt on. Their first intention, as their published papers record, was to com-plete the dictionary rather than to reform it. In 1857, they determined to form a collection of words hitherto unregistered in the dictionaries of Johnson and Richardson, with a view of publishing a supplementary volume which might be used with these. The idea Was taken up energetically, and a committee was formed to carry it out, till the suggestion arose that the scheme should be extended to the complation of a new complete dictionary more scientific than any existing. Accordingly the Philological Society, at its meeting on January 7, 1858, resolved that instead of a supplement to the standard English dictionaries, a new dictionary of the English Lan-guage should be prepared under the authority of the society. Two committees were appointed : one, literary and historical, consisting of the then Dean of Westminster, (Dr. Trench) Mr. F. J. Furnival, and Mr. Harbert Coloridae, the other atymological consisting of and Mr. Herbert Coleridge; the other, etymological, consisting of Mr. Hensleigh Wedgwood and Professor Malden. Arrangements Were made for the publication of the work in parts, but fifteen years Arrangements have since passed, and though a really vast work has been done in collecting and editing materials, no part has reached the final stage of completeness. What the future of the undertaking may be, not of completeness. even those most devoted to it can predict with much certainty, but meanwhile we have in print the Prospectus and the Rules, with ⁸⁰me subsidiary vocabularies, etc., and by the aid of these a brief account may be given of the scheme, and its merits judged of. The dictionary is to consist of three parts, viz., (i.) a "Main Dictionary" (ii.) a vocabulary of technical and scientific terms and proper names "A vocabulary of technical and scientific torms and proper limits of persons and places; and (iii.) an etymological appendix. The "Main Dictionary," and the supplement succeeding it, are to find "oom for all English words. "According to our view (say the framors of the proposal) the first requirement of every lexicon is that it should contain every word occurring in the literature of the language it professes to illustrate." It is not merely what may be called oranary English that comes within the range of the programme. From the rules, it appears that the Main Dictionary is to admit obolete, provincial, local, and slang words, where vouched for by some reliable authority. The treatment of these words, ordinary and extraordinary, is to be as thorough as the range is wide. The etymology is not only to give the proximate origin of each word, but also to exhibit several of its affinities in the related languages, Ways including that language (such as Sanskrit, etc.) which seems to present the radical element in its oldest form. The etymological appendix is to contain general philological information as to roots, affires, etc., necessary to complete the special items of the vocabu-larios. laries, etc., necessary to complete the spectal forms of successive senses of word. The task of tracing the development of successive senses of word. Words is fully faced by the committee, who lay it down thus : "In uminous works of Froude, seem to inspire one with such cheerful-the treatment of individual words the historical principle will be ness that the reader forgets himself in the theme. Fully a second words the historical principle will be ness that the reader forgets himself in the theme. fully adopted; that is to say, we shall endeavour to show more elearly and fully than has hitherto been done, or even attempted, readers. However prosaic our life generally may be, there is still

the development of the sense, or various senses, of each word from mitted by publishers and others, be referred to Messrs. McCabe, its etymology and from each other, so as to bring into clear light Deroche and Maclennan, such committee to report thereon from the common thread which unites all together." Moreover, they design to produce evidence of their linguistic growth, change, and decay, by a system of appropriate quotations, showing the epoch of the appearance of each word in the language, and the limits of its

various phases of meaning. "To carry out this immense scheme, an elaborate co-operative system has been arranged. English is, for convenience, divided in-to three periods; the first from Henry III's time (1250) to the printing of an English New Testament (1526); the second extending to Milton's death, (1674); the third, thence to our own time. All Engglish words are to be classed in the periods they belong to; and, as aids in fixing their appearance and duration, standard lists are adopted or drawn up for the guidance of a volunteer army of readers, who undertake to overrun the field of English literature, amassing the linguistic material out of which a number of sub-editors have to select the items fit for actual use, upon which, by the laborious and critical processes of arrangement, definition, and derivation, the editing of the dictionary at large is to be at last accomplished. Directions for the use of readers willing to contribute materials may be had from the society; and it is unnecessary to enter into these details here. To judge from Mr. Furnival's last reports of the position of the undertaking, which give the state of sub-editing, letter by letter, it appears that this work, preparatory to the actual elaboration of the dictionary, may be now half or three quarters done, but is almost at a stand. The great question which arises is not so much When will the great work be done ? as Will it ever be done ? in our time at least. An effort as great, or greater than that which started the New English Dictionary, fourteen years ago, will be needed to complete it fourteen years hence."—Conn. Sch. J.

ENGLISH LITERATURE.

Perhaps no trite sentence of any author has been honoured with such frequent quotation as that of Bacon, "Reading makes a full man." Its truthfulness is so plain, it will not be disputed. The instances when extensive reading has added a wealth and power to life are too numerous to be gainsayed. Perhaps Macaulay was the most notable reader of modern times. At least it is most clearly seen in him. Pick up his history or essays, and you are overwhelm-ed with his wonderful acquaintance with literature, ancient and modern, secular and religious. So early did this develop itself in the youthful Macaulay, that he was familiarly known by his school-mates as "Macaulay the Omniscient." The wealth of literature to expand the mind, and to give abundant resource for conversation, illustration and address, is remarkably displayed in the "immortal historian.'

But few persons have, however, the time for extensive reading. Business bustle, ever impulsive, ever encroaching, claims so many hours that the jaded mind refuses to turn with any fondness to reading. It becomes imperative then that whatever is read must be of an entertaining and cheering type. Indiscriminate reading will soon end in discouragement with literature generally. To try to read everything is madness. Floods of periodicals and works are poured upon society, and but few of them enrich the mind like the Nile the plains of Egypt. Selection is necessary. Culling a few of the finest works will be found infinitely more satisfying than an indiscriminate perusal of many. Frederick Robinson says : "I never knew but one or two fast

readers, and readers of many books, whose knowledge was worth anything." Mrs. Martineau says of herself that she is the slowest of readers, sometimes only a page an hour. But then what she reads she makes her own. It seems, then, that it is not the quantity so much as the quality which is so necessary to be thought of. Under this conviction we advise a close and continuous acquaintance with the best portions of English literature. There should be the founding of a habit of turning to the highest works, and very soon those light, unreal and worthless books of which our libraries and brains are unfortunately too full, will be laid aside as unworthy of the golden moments and noble energies of the mind.

No man is complete whose memory is not familiar with the history of his native land. HISTORY is an indispensable subject of tory of his native land. HISTORY is an indispensable subject of study. To know the tendencies of our own age we must be able to contrast them with those of former centuries. Any lack here is a serious one indeed. It happens that some historical writings are so laborious that perusing them awakens weariness. They are mere "pigeonholes of facts." There is no enthusiasm imparted from the author to the reader. But the histories by Macaulay, and the vol-

is necessary to select. To read even Tennyson, Longfellow, Whit-tier or Browning page by page is tiring in the extreme. To criti-cise our poets may be a dangerous pursuit. But it is clear that while poetical authors have given us much which is sublime, not a little is to be found in their works which would be simply considered rubbish were it not that a great man had written it. It is wise to take only the best pieces, where the whole soul of the poet shines forth, and master these.

The greatest care should be observed in selecting works of Fic-on. The mass of volumes in this class is of a debilitating and detion. False ideas of life are awakened. The mind is familiarized with crime and follies until all the moral stamina is gone. The French nation is a terrible instance of the demoralizing effects of an overheated and distorted fictitious literature. How morally fragrant are the works of Walter Scott, or George Eliot, or Louise Alcott, and a host of others which might be named ! A man arises from the witness of the deeds of their imaginary heroes, with a lordly ambition and stimulated faith. And this class alone can assist the upraising of the morals and practices of society.

It is impossible in a brief article to more than throw out a hint or two on this widely extended topic. Our readers must be left to work out the suggestion at their leisure. But we are sure our opinions will find at least some consideration at the hands of those who find recreation in reading. Saxon literature transmitting Saxon ideas is the best pabulum for Saxon minds. German literature has its attractions for many minds. But the works of Germany are not the best food for those who think and speak in English. French and Spanish works must very largely be avoided, as they transmit the most damaging views of personal, social, domestic life. But in our own language there may be found noble works which will enlarge our sentiment, broaden our charity, stimulate our poetry, and strengthen our morals.

A word more. Our schools and colleges have not sufficiently regarded this important branch of study. Though the many works of good repute cannot be all perused at school, a taste may be developed and strengthened for literary studies which will confer a positive delight on after and older years. "As the twig is bent, the tree's inclined" is a proverbial truth. If from our school and college halls a love for literature be borne away by the retiring stu-dent, we doubt not that the fire thus kindled will be fanned in still higher flames of research. Many firesides are positively indigent of such recreating pursuits; what wonder then that many of the members drift away into scenes and practices the most questionable. Let a good and judicious study of the literature of our mothertongue be engendered at our schools, and continued at our houses. and our business, and home-life cannot but be enriched thereby .-London Advertiser.

PLEASANT READING.

The English Rock newspaper says:--- "The late Bishop Wilberforce, during the forty years of his active ecclesiastical life, collected all the phamplets that came in his way, relating to the contro-versies of the busy days in which he lived. These were always ar-ranged from year to year, and carefully indexed by his own hand; and they went on accumulating until at the time of his death, they mustered a formidable phalanx of no fewer that 175 thick, 8vo. volumes, all of which had inscribed on their blue moroco backs, the particular date to which they belonged. Not only is the series quite invaluable to the controversial student, but its interest is frequently enhanced by the circumstance, that a large proportion of the pam-phlets, being presentation copies, carry the authograph of the writers. At the Bishop's sale there was a spirited competition for this lot, which was eventually knocked down to Mr. Sotheran, of the Strand, from whom it has been purchased (for £100) by the National Club. We heartily congratuate the Club on the acquisition of so unique a prize, which, we believe, will occupy a berth in the committee-room, where the very important library presented by the late Robert McGhee, is already established."

CHANGES IN LANGUAGE.

In one of Mr. Motley's scholarly addresses he mourned over the fact that a language was never perfect until it was dead. lf King fact that a language was nover performing and probably Alfred should come back to earth, for instance, he would probably not understand a word spoken in his kingdom. While a language is growing there is no accounting for the grotesque forms which words will take. Pocket-handkerchief, for instance, is an absurd mass of syllables for a little thing in common use. It began growing centuries ago. Kerchief is couvre-chef, a head covering; then it began to be carried in the hand, for obvious purposes, and at last was put in the pocket, gathering cumbrous additions to its name all the way. How much more sensible to call it as the French do, a mouchoir,

a corner left somewhere for some poetical sentiments. But here it or wiper? The only objection to this would be the temptation af-

BOOKS FOR BOYS.

To the boy the printing-press has become the shaping influence Father and mother may be voted unsympathetic and of our time. slow. Comrades may show themselves arrogant and mean. Sisters may not be above temptation in the way of small tempers, talebearing, or fibs. But the friends in the story-books are all that the most exacting boy could desire. If they have weaknesses these are not visited on him, and he forgives them all sins but tediousness. He thinks their thoughts, speaks with their speech, sees with their eyes, adopts their conscience. Lesson-books are alien, to be respected or despised as the case may be. But story-books are bone of his bone and flesh of his flesh.

Yet not one conscientious Christian parent in ten troubles himself to see what books and papers his boy reads for pastime. Thus a free market opens to enormous supplies of profitless or poison literature. Not to speak of those prurient publications which, at least, do not lie open on news-stands or heap the shelves of reput-able book-stores, there is a class of boys' books and papers hardly

less menacing to morals and a thousand times more widely read. Good Jacob Abbott with his model "Rollo," his amiable "Marco Paulo," and his preternatural "Jonas ;" dear old Gaffer Day with his innocent "Sandford and Merton ;" sweet Mary Howitt with hor whole delightful library of stories ; dears Miss Edenorith and her whole delightful library of stories ; clever Miss Edgeworth, and, alas ! even great Sir Walter ; these and their gentle kindred who alas' even great Sir Walter'; these and their gentue kindred who delighted the young world twenty years ago are shoved aside by bustling and coarse "Oliver Optic," "Walter Aimwell," Pierce Egan, and the evil brood of authors of "Boys of America," and "The Boys' Own." We have doubted, indeed, whether "Robin-son Crusoe" and "Settlers in Canada" might not be out of print, since we heard a bright lad of sixteen declare that "Plutarch's Lives" was too slow to interest a boy of spirit, though that is the book to which the great Napoleon, who is thought to have had a reasonable taste for adventure, gave his school-boy days and nights.

According to this modern literature there is an experience called "life" wholly distinct from and incompatible with that simple existence which the home roof covers. Indeed, the youth whose noble aspiration impels him toward this joy of eventful living must begin by running away from home. Previously he will have shown the mark of his high calling by bullying his teachers and superiors, breaking up the school, perhaps, deceiving father and mother, and telling what white lies may be necessary to his large ends. Having thrown off the tyranny of loving-kindness he enters on the liberty of the street, the fore-castle, the frontier, the mines, or the forge. His companions are low-lived criminals. His ambition is the vulgar genteel. Everybody about him commits more than the seven deadly sins, but he remains a Bayard of spotlessness, delightfully reckless, picturesquely rollicking, always ready, one against ten, to floor the most dangerous "enemies," always loftily superior to cir-cumstances, and, in the end, marrying the rich girl and setting up as a patron of the virtues; the inevitable moral being that the wilder the boy and the coarser his surroundings, the more admirable and successful will be the man.

The whole philosophy of even the best of these productions is false, their style is tawdry, their language ungrammatical, their atmosphere mephitic, and yet they are interesting. As the Greek youth heard the legends of Homer and was kindled to emulation of the triumphant gods and heroes, so the American boy pores overs, the "Adventures of Jack Harkaway," or the "Starry Flag Series," and daily sets up newer and shabbier images in his motley Pantheon. As a lad thinketh in his heart, so is he. The reader of these epics coarsens, his speech is garnished with cheap slang, the pitch he handles slowly defiles him. When Fifth Avenue and the Five Points hang delighted over the same literature, admire the same heroes, form themselves, more or less consciously, upon the same models, it is not because the Five Points have heard anything about sweetness and light.

In the distorted mirror of these prints every moral quality looks awry. Thrift is stinginess. Obedience is mean-spiritedness. Extravagance is open-handedness. Bluster and brag are manliness. Patriotism is the doctrine of Manifest Destiny. In the late Cuban, excitement those students of "The Boys' Own" or "Oliver Optic" were few, who did not long to "lick Spain," declaring that a Spaniard was "too mean to live," that Cuba was rightfully ours, and that peace was disgraceful. Neither the sufferings of the patriots nor the cruelties of the volunteers were an expressible forteer in the sum of cruelties of the volunteers were an appreciable factor in the sum of their conclusions. Not one boy in fifty took the pains to know the facts before fulminating this bloody ultimatum. It was the brute thirst for conquest, stimulated by a false notion of the glory of victory, which their reading had taught them.—Christian Union-

THE PARTING OF DOUGLAS AND MARMION.

Altered to dialogue form by James Hughes, Esq., late head master of the Boys' Model School, Toronto.

CHARACTERS :

DOUGLAS-A haughty Scotch peer. MARMION-An English Knight, sent by Henry VIII, of England, to James the I of Scotland, with friendly overtures which were rejected. He has been, at the command of the Scottish King, the unwelcome guest of Douglas, and is about to recross the Border on the morning previous to the battle of Flodden Field.

MARMION :

At length the welcome hour has come, When I may seek my English home ; I've given my message and received Reply at which I'm deeply grieved. I came desiring peace, but find That nought can change your monarch's mind.

DOUGLAS :

My monarch but performs a part Approved by every Scottish heart, While true to friends whose worth he knows, He proudly scorns to treat with foes, Who, though they hate him, basely bow And humbly seek his friendship now; We shun the love which springs from fear, And spurn the aim which brought you here, I'm not surprised that you lament, Because my king would not consent; No doubt 'twould suit you well, if he Were willing your ally to be, While you, rejoicing at the chance, Were warring with our friends in France.

MARMION :

Thy base suspicions show a mind Well schooled to thoughts of darker kind; I'll treat them with deserved disdain, For England's honour knows no stain. Full soon, proud Douglas, you'll be taught That not from fear King Henry sought To stop the war you have begun, And weld our nations into one ; For, though your nation nobly chose The time when we have other foes, You'll find us ready even now To teach your haughty king to bow.

II. Lapers on Educational Subjects.

PUBLIC SCHOOL LIFE.

A University man and an English Public School man are of a Peculiar type. We do not say they are the highest breed of humanity, but they are a breed peculiar to themselves, with singular, cork-like faculty of floating, with other corks, to the top of whatever social gathering-bucket they happen to be in. The Eton boy is equally at how they include the properties of solf and yet with a deep inner at home, charmingly unconscious of self, and yet with a deep inner self-respect that no vulgarity of others can impair or self-assertion of others reach, whether he be cooking rats with his fellow-middies' mess over the gun-room lamp, or dining with the King of Ashantee; Whether he be mate to "a horse thief and a cockney" in the gold diggings, or preaching a University or Whitehall sermon. He has diggings, or preaching a University or Whitehall sermon. He has his faults; unless a religious re-action has set in, he is heartily sel-fish; he draws that distinction between "ladies" and "women," between "girls" and "gals," which Charles Lamb so nobly scouted and tenderly reproved. His self-possession, too, can easily be called impudence by his enemies. But he belongs to the class which has been lately and is now moulding history and doing seven-eighths of all that is worth or not worth doing in the world. There is no better training school in the world for the race of life, so called, than the

Too well we know the Scottish heart To let our bravest troops depart ; So, while one army conquers France, We've kept for you our strongest lance.

DOUGLAS:

Bold braggart, ere to-morrow's light Has yielded to succeeding night, The test will come, so words are vain To settle what will then be plain. I'll yield no praise to deeds undone, Nor boast of battles till they're won; Nor can I deem his valor great, Who in his foeman's halls can prate Of glory, while his country's needs Require not words, but noble deeds. Away! prepare you for the fight; Be worthy of the name of knight.

MARMION :

I go, and parting gives no pain, "But though perhaps I might complain, Of cold respect to stranger guest, Sent hither at your king's request, I go in friendship from your land So noble earl receive my hand."

DOUGLAS :

"My manors, halls, and bowers, shall still Be open at my sovereign's will. To each one whom he sends, howe'er Unmeet to be the owner's peer. My castles are my king's alone From turret to foundation stone-The hand of Douglas is his own ; And never shall in friendship grasp The hand of such as Marmion clasp."

MARMION :

"If 'twere not that a hoary beard" Proclaimed a right to be revered, The hand of Marmion had not spared To cleave the head of him who dared His honor to deride.

"And, first, I tell thee, haughty peer, He who does England's message here, Although the meanest in her state,

Although the meanest in her state, May well, proud Angus, be thy mate ;— And, Douglas, more I tell thee here, Even in thy pitch of pride, Here, in thy hold, thy vassals near, (Nay never look upon your lord, And lay your hand upon your sword) I tell thee thou'rt defied !

And if thou said'st I am not peer To any Lord in Scotland here, Lowland or Highland, far or near, Lord Angus, thou hast lied !"

DOUGLAS :

"And darest thou then To beard the lion in his den,

The Douglas in his hall?

And hopest thou hence unscathed to go *i*

No, by Saint Bryde of Bothwell, no !

Up drawbridge, grooms ! what, warder, ho ! Let the portcullis fall."

Marmion hastily retires from the platform and reappearing in another part of the room (outside the castle wall), hurls defiance to Douglas.

MARMION :

Ha, treacherous Scot ! although thy band In haste obeyed thy base command, My noble steed, in danger tried Their promptest efforts has defied, And now, I dare thee to maintain Thine honor free from foulest stain In combat on the open plain. And know, proud Earl, that English Knight Seeks no advantage in the fight.

So, lest thy age should form a plea For silence, send the bravest three, Who dare decry my king or me, And Marmion's hand shall make them feel For England's honor by her steel.

DOUGLAS :

"To horse! to horse! give chase! give chase Shall Douglas bear this deep disgrace ? But hold ! my king has given command, Beneath the royal seal and hand, To give safe conduct and a guide ; This I must do whate'er betide. A plague upon my fiery mood ! Old age ne'er cools the Douglas blood ! I thought to slay him where he stood. But, though my hate I cannot hide, I warrant him a warrior tried, Bold can he speak and bravely ride. A royal messenger he came, Though most unworthy of the name," So call him back, a truce proclaim— No stain must mar the Douglas fame-And haste provide a trusty guide With him to Surrey's camp to ride.

English Public School, and hardly a wise father in England but sends his son, undoubtingly and as a matter of acknowledged advantage, to one. How few would sacrifice the ineradicable memories

variage, to one. How few would sacrince the ineradicable memories of Public School life, with its prefects and its roll-calls, its whole school days and half-holidays, for a baronetcy or even for a bishopric. The faults and abuses of English Public Schools are triffing. What are their advantages ? Firstly, the boys are trusted and so are at once trustworthy. When asked who did anything they give in their names as a matter of course and take their punishment like men. Again, from the first they are brought into contact with tho-rough gentlemen and undeniable scholars as masters. The masters are all University men. Hence they learn to obey or rathen power are all University men. Hence they learn to obey, or rather never are all Oniversity men. Hence they learn to obey, or rather never to dream of disobedience, and to yield respect where respect is due gladly and happily, and to the sound growth of their own self-respect. Omitting much, remember how in all their games, the main part, after all, and the very salt of Public School life, they learn to forget themselves in a "cause," to recklessly sacrifice themselves to the success of their party. Self-denial, culminating in self-forgetfulness, is the highest virtue in men. How are these schools to be transplanted to this country? State aid will not pro-duce them. They depend on private multiforence here as elsewhere duce them. They depend on private munificence here as elsewhere. A respectable quota of English real estate and existing capital is of originally private bequest in trust for English Public School educa-tion. Too many English Public Schools are restricted to the rich. That is not the case with their anti-types in Canada. At Radley the undecided and hesitating as to his future, there is danger that the prime expense for a boy is \$625 per annun. The cost of a boy at our Canadian "English Schools," is much less. Large private donations and endowments are necessary to enable boys to have the untold advantages of first-class masters and handsome buildings and surroundings for this sum. It is the duty of all who can to contribute to perpetuate in Canada the schools which faithfully reproduce the advantages and merits of English Public Schools, and which yet, being free from the trammels of long-standing abuses and an almost irresponsible administration, are weeded of their imperfections and their faults. - Montreal Gazette.

CONVOCATION SEASON.

The first blush of spring is a fitting season for our University to send forth its noble company of *débutants* on life's stage, each per-haps animated by hopes and desires peculiar to himself, but all alike sustained and nerved for the contest by the fervour of glorious They leave their academic halls with eloquent words of youth. counsel and admonition yet sounding in their ears, and while they revere and strive to follow the advice of their late instructors, they can hardly feel themselves left without a rudder in the stream of Year by year addresses of marked ability are delivered at life. these University gatherings, and though the unusual pressure upon our space prevented us from doing more than hint at the subject of them on the last occasion, there has been no falling off in the care and talent which they indicate, or the interest with which they have been received. We are not surprised at this, for the theme is of supreme importance, and even those who have passed the first stages during which such advice is most useful, must give their attention while the way which is thought best is pointed out to those who are pressing in their footsteps. The first statesmen of the day have not disdained the theme. Mr. Disraeli at Glasgow and Lord Derby at Liverpool have given to the British youth their matured thoughts upon it; and hardly any one is so low as to think he cannot add a little to the common fund of knowledge. Notwithstanding the multitude of counsellors, however, it is possible that we have not found out much which was not known at some time to our ancestors, though the precepts may have been forgotten or unnoticed. We cannot dispute the noble examples of individual culture which abounded even in the remotest times, but one thing we may claim, that a greater number of persons are in our time afforded the opportunity of drinking at the divine fountain of knowledge. We are not disposed to value this privilege lightly, for the success of educational work must be judged not by isolated examples of high culture. but by the diffusion of knowledge among the multitude; let the lives of the masses be lifted above the slow, unreasoning existence of undevelaped intelligence, and a great step has been taken beyond what ancient times can show us.

Those of us who listen to or read addresses on university education and mental culture, may imagine there is considerable diversity of opinion among those engaged in the work. It is true that there are differences of opinion, and it would be a great mistake to suppose that we have yet discovered an absolutely perfect system of education. But educationists are at least pretty well agreed in the rejection of certain injudicious systems which had their day. There is no longer hesitation, for instance, in disapproving the exclusively classical curriculum. Nor are there many intelligent admirers at the present day of that devotion to the midnight oil which took not into into account the physical well-being of the student. It may be hoped that amidst all the impressive warnings respecting the imby Lord Derby, there will be fewer victims to the régime lamented by Horace Mann, who said that in college he was taught all about the motions of the planets as carefully as though they would have been in danger of getting off the track if he had not known their orbits ; but about his own organization, and the conditions indispensible to the healthy functions of his own body, he was left in profound ignorance. There have been pedagogues who considered all time wasted when the printed page was not before the pupil's eyes, but we trust their days are past; and while the subjects of study are more numerous than our fathers ever dreamed of, it will not be for-gotten that it is essential to success in life that the mind should have a suitable temple in which to reign, and that mere book-lore without bodily energy, is of little profit to its possessor.

One thing which is apt to bewilder the student of the present day is the great variety of the subjects which by his various instructors are pressed upon his attention as of equal importance, and each of which seems to him to demand a lifetime for its mastery. It is undoubtedly becoming more and more important for those who aim to excel in any pursuit, to fix early their choice; after they have

keen memory and intellectual freshness of youth may grow dull before the time arrives when the actual preparation for life's work is entered upon. "Le mieux est l'ennemi du bien," says the French By seeking uneasily and anxiously after what shall approverb. prove itself to his judgment as absolutely the best work for him, the student will often be put to serious disadvantage in the battle of life. "The man who succeeds above his fellows," said the late Lord Lytton, "is the one who early in life clearly discerns his object, and towards that object habitually directs his powers.

At the same time we are far from urging our young friends to make pre-eminence in some particular pursuit the engrossing care of their life. Some one has lamented that so many excellent men in the United States have been spoiled by the hope of one day filling the Presidential Chair. So, too, we have no do bt that men capable of doing very useful work have been led to waste their lives by the hope of handing down a name to posterity. It must be admitted that specialists are not always the most complete of mortals. Few of them approach closely to the "superior man" of Confucian philosophy, who while there is anything he has not studied, or while in what he has studied, there is anything he cannot understand, will not intermit his labour ; while there is anything he has not enquired about which he does not know, will not intermit his labour." And still less does the restless toiling after distinction chime in with the idea of William von Humboldt, whom Matthew Arnold calls "one of the most beautiful and perfect souls that have ever existed," and who used to say that one's business in life was, first to perfect oneself by all the means in ones power; and secondly to try and create in the world around one an aristocracy, the most numerous that one possibly could, of talent and character. Those who hold these views would fain see the process of culture, mental, moral and physical carried very far before the student's mind is suffered to be engrossed with a specialty, though the need of honours and wealth be less; and while it is generally desirable to defer the time when the professional work of life should break in upon the work of general culture, so it is certain that it should never supersede it.-Montreal Gazette.

THE PROVINCIAL SCHOOL OF AGRICULTURE.

As the above-named institution is to be opened very shortly, it will be observed that a beginning is to be made in a very moderate way. Not more than thirty pupils can be received for some time to come. More buildings must be erected before a larger number can be accommodated. Applications for admission to be sent to the Principal of the Institution, Professor McCandless, Guelph. A very tempting offer is made for the first year. Board and tuition are to cost nothing, and each pupil who makes proper profici-ency is to receive fifty dollars in money at the year's end. Our young men ought to jump at such a chance as this. It is incredible, that there should be any difficulty in filling the school to its utmost capacity on such terms. We are afraid many will be crowded out and doomed to disappointment.

Candidates for admission to this preparatory term, are expected to know arithmetic as far as simple proportion, to be familiar with the rudiments of English grammar, the outlines of English and Canadian history, general and Canadian geography. This is the standard according to which transferences are made from a common to a high school. We have heard the opinion expressed that the requirements are too high, but, in our opinion, those who make this objection form too low an estimate of the attainments of farmers' sons. The schoolmaster is abroad, even in country localities, and there are many sharp lads under fifteen, the age fixed for entrance to the institution in question, who are well up to the required standard. But we apprehend that a candidate for admission to the School of Agriculture, who is otherwise qualified and promising, will hardly be rejected because he falls a little short of the required standard. That lays down the general rule, but it may fairly be supposed that there will be exceptions to it, as there are to every other general rule. A certificate of admission to any high school or college, or a certificate as a duly qualified teacher, will be accepted as proof of educational fitness without examination, and where these are not forthcoming, applicants will be examined. Proof of sound health, and evidence of good moral character, will be required, and an engagement must be entered into, with the consent of parents and guardians, to complete the term of one year, to submit to the prescribed rules, and to give undivided attention to the duties and studies of the Institution.

We learn that seven hours will be the average maximum of outdoor work ; that often much less time than this will be so employed, though sometimes in hurrying seasons of the year it may be exceeded; that instruction will be given by intelligent foremen in the done so firmly and irrevocably, there is not much danger of extend-ing their studies too far. But if the student wanders listlessly, principles which govern the practical operations of the farm; and that it will be a prime object to school the young men into the pertious and skilful manner.

We are glad to perceive that the moral and religious character of the pupils will receive watchful attention. Young men from the country are pecularly liable to be unfavourably influenced amid the temptations incident to town and city life. It will relieve parents of no small anxiety to know that their sons at the tender and susceptible periods of early youth and budding manhood will be cared for in these important respects. Participation in morning and evening devotions, regular attendance at their respective places of worship, inculcation of right principles and cultivation of good habits at such a time of life, can hardly fail to be of lasting benefit

to them through all their after years. We most sincerely hope that the Institution about to be opened for the education of our young farmers will be eminently successful and useful. We believe in agricultural training, and in schools and colleges devoted to this special purpose. Our idea is that we ought ultimately to have a central college, and a net-work of local schools of agriculture, similar to the systems pursued in Ireland and on the continent of Europe. We trust that the success attend-ant on the Institution about to be opened will be such as to encourage a speedy enlargement of the plan. The Government having made a beginning, it rests with the people to say whereunto it shall grow. If the opportunity now offered for obtaining an agricultural education is eagerly embraced by a large number of young men, and it is plainly to be seen that a felt want is being supplied, we have no doubt the institution will soon assume larger proportions. Of course, the establishment of a school of agri-culture in this Province is very much the nature of an expericulture in this Province is very much the harder of an exper-ment, and it remains to be seen whether the farming community is really ripe for such an enterprise. We confess that we shall be disappointed if the response made to the action of the Go-vernment be not hearty, earnest, and encouraging. We mistake vernment be not hearty, earnest, and encouraging. We mistake the character of the agricultural class altogether, if they are not prepared to co-operate in this undertaking with right good-will. Should such co-operation be given, we are quite sure the Government will be prepared to prosecute the scheme they have begun with a strong-handed energy and an open-handed liberality.— London Daily Advertiser.

COUNTY OF HASTINGS.

At a recent meeting of the Teachers' Association the following resolutions were passed.

Resolved that we adopt Worcester's Dictionary as the standard of pronunciation in the schools of South Hastings. Carried.

The Committee appointed to consider matters pertaining to education report as follows: Whereas it is desirable that our Public Schools should be made more efficient. To effect this change, 1st, it is necessary to have a larger supply of efficient teachers; 2nd, to abolish the prevailing custom (particularly in rural districts) of changing teachers every year or oftener. Regarding the first, efficient men can be induced into the profession by the same means that men of ability are secured in other avocations-by giving a fair remuneration. It is very pleasing to observe a marked im-provement of late in this direction. Regarding the second, so long as teachers are changed yearly, schools will never be what they should, no matter how efficient the teachers are. The first three or four months are spent not so much in teaching as in finding out the Pupils' attainments, the disposition of each, and the mode of managing them, all of which must be done before progress is secured.

At the end of the year the teacher is expected to take another school and pursue a similar course, leaving his successor to do likewise. In this way a third of the time is wasted, and worse still, the strange teacher cannot have sufficiently strong influence over his Pupils to secure that diligent application necessary on their part to ensure satisfactory progress. Therefore be it resolved, that this As-sociation humbly and respectfully suggest to the Honourable the Council of Duble Instruction that all Transhorn holding Provincial Council of Public Instruction, that all Teachers holding Provincial Certificates or who may obtain such certificates, be the teachers of the schools to which they are appointed or to which they may be appointed, during their pleasure and good conduct.-Ontario.

SEX IN EDUCATION.

The question of sex in its relations to education, which has been ⁸⁰ ably discussed by Dr. Clark, Dr. Allen, and Dr. Weir Mitchell in this country, is beginning to receive serious consideration from cientific men in Europe. Dr. Maudsley has recently published an elaborate paper in The Fortnightly Review, in which he treats the subject with unflinching energy, and sums up his conclusions in a brickwork = 112tb.

manner not less resolute and determined than Mr. Herbert Spencer formance of the various duties of their calling, in the most expedi- himself. He admits the force of the argument that much of the mental and moral difference between the sexes may be attributed to the position of subjection and dependence which woman has always occupied, but contends that when all reasonable allowance on that score has been made, there remain inherent and ineradicable differences as marked and as necessary as the complementary bodily variations of structure. He concludes with a logic which will seem merciless to some of the advocates of identical education for boys and girls, that such a system would injure women for their maternal responsibilities, and that as this is the chief duty and destination of the great majority, it would be unwise to modify our general system of education for the benefit of the exceptions. All European writers upon this subject point this moral with too frequent and sweeping references to the health of American women. They are misled by those who wrote upon this subject many years ago. Improved cooking, more rational dressing, more general attention to exercise and bodily training, have made a decided change in the appearance and the strength of American girls of the better class.

III. Mathematical Department.

Although the publication of the following solutions have been delayed for some time past, they will be found interesting to our mathematical readers. will follow in due time. The solutions of the remaining problems This department should be appreciated by teachers, as the Journal of Education is the only periodical in the Dominion, which publishes the solutions of mathematical problems. Due notice will soon be given to correspondents who have kindly favoured us with answers.

We respectfully invite teachers to send questions and solutions to this department.

SOLUTIONS OF SIX PROBLEMS.

6. The base of a triangle is 80, and sides containing the vertical angle are 65 and 55 perches respectively : required the length of the line drawn

from a point without the triangle, 8.53 perches from the side (55), so as to cut of $\frac{5}{7}$ of the

area. CB = 65 = f:AB= 55 = b : A C =80 = d; and ratio 5:7 or m + n =s = 12.

By calculation, we find the following results :----

BE = $9\frac{2}{7} = g$: EP = 58.67 = p; BF = x; AP = 8.58; CG = 59.71; BH = 8.53; EH = 3.67. By similar triangles, we have, $g + x : p :: x : \frac{px}{g+x} = BI$. Then $BI \times BF : BA \times BC :: m : m + n, \frac{px^2}{g+x} : bf :: m : s$; then, $bmf = \frac{spx^2}{g+x}$, and $spx^2 = bmfx + bmfg$, $\therefore x = 32.6172 = BF$. Then P_F the required line is easily found.

is easily found.

7. An iron wedge whose angle is 14° is driven into a mass of oak

by a force of 125 bs. : what force necessary to extract it? $W_1 = W \times \frac{\sin(.31^\circ 50' - 7^\circ)}{\sin(.31^\circ 50' + 7^\circ)}$, or $Wx \times \frac{\sin(.24^\circ 50')}{\sin(.38^\circ 50)} = 125 \times \frac{419980}{627057}$ $W_2 = \frac{125}{3} \times \frac{125}{3$

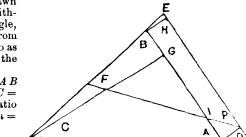
8. A beam of oak 1 foot square has its end firmly embedded in masonry, from which it projects 9 feet: to what height could a wall of brickwork, 2 feet thick and resting on the beam, be carried without producing rupture !

Let a = natural length of the beam; b its depth, and c its breadth, $W = \frac{s}{3} \times \frac{c b^2}{a^2}; s \text{ being the modulus of elasticity. Then } w = \frac{4992}{3} \times \frac{12 \times 144}{1082} = 246\frac{42}{89} = \text{ pressure for every inch of length of}$

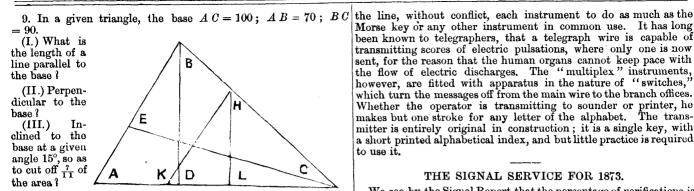
beam. Then $246\frac{42}{80} \times 108 = 26618\frac{86}{89}$ lbs. sufficient to produce

rupture.

 $9 \times 2 \times 1 \times 112$ tbs. = 2016 fbs. \therefore 26618 $\frac{8}{80} \div$ 2016 = 13.203 feet, the height to which the wall can be raised. One cubic foot of







(IIII.) Bisect the triangle by a line whose length is 49.32 perches. A C = 100 = a; B C = 90 = b; H K = 49.32 = c; C D = 66; C K = x; H L = 43.7; K L = 22.864; C H = 64.276; area = 3059.41; BD = 61.1882

(I.) Let x =length of the line parallel to the base; then by similar triangles, or similar figures are to one another as the squares of their like sides $\therefore 100^2 : x^2 :: 3059.41 : \frac{7}{11}$ of $3059.41 \therefore x = 79.77$, length of the line parallel to the base.

(II.) Area of triangle $BDC = 61.1882 \times \frac{6.6}{2} = 2019 \cdot 2106$.

Let x = the required perpendicular. As $BD^2: x^2:: \triangle BDC: \frac{7}{11} \times 3059.41$; $\therefore x = 60.082$ perches. (III.) Angle $A = 60^{\circ} 56' 27''$; angle $A C E = 15^{\circ}$. by trigonometry, A E is found = 26.68, and E C = 90.11. $\triangle A E C = 1166.03$; and E B C = 1893.88. From $\triangle A E C$ cut

off $\frac{1}{11}$ of the area of the whole by a line parallel to EC; the remainder will be $\frac{1}{11}$ of the whole. $EC^2: x^2:: 1166.03: \frac{4}{10}$ of 3059.41; or, 8119.812: $x^2:: 1166.083:$

1112.512: . . . x = 88.0176.

(III.) $A C \times B C = 2 K C \times H C$ or $a b 2 x \times C H$, and C H =ab

 $\overline{2x}$

By similar triangles, $b:d::\frac{a b}{2x}:\frac{a b d}{2bx}=CL$. $KL = KC - CL = x - \frac{abd}{2bx} = \frac{2bx^2 - abd}{2bx^2 - abd}; \text{ but}$ $\therefore \frac{4b^2c^2x^2 - 4b^2x^2 - a^2b^2d^2 + 4ab^2dx^2}{4b^2x} = \frac{a^2b^4 - a^2b^2d^2}{4b^2x}$ $4b^2x$ $4b^2x^2$ $\cdot \quad 4 \, b^2 \, x^4 - 4 \, b^2 \, c^2 \, x^2 - 4 \, a \, d \, x^2 = - \, a^2 \, b^4 \, \cdot \cdot \, x = 70.$

10. The rafters of a house are each 18 feet long, and tied by a wrought iron rod, 30 feet long and section 1 square inch: what weight must be suspended from the vertical angle so as to break the rod?

Let the direction of the weight W bisect the base BC in D, and A representing the vertical angle; then we have, $W \times 30 \div 4 A D$ = horizontal pressure ; AD = 9.95

$$\therefore \frac{W \times 30}{39.8} = \frac{67200}{4}, \text{ or, } W \times 30 = 39.8 \times 16800$$

 $\therefore W = 39.8 \times 560 = 22288$ ibs, the required weight sufficient to break the rod.

11. A bar of wrought iron suspended vertically breaks by its own weight, what is its length ?

The tenacity of iron=67200 lbs; let x = length of the bar, and n the area of its section; then 67200 n = the breaking weight of the

bar. Specific gravity of wrought iron = 7.788,
$$\therefore \frac{1100}{144 \times 10} \times nx$$

= weight of the bar.

 $\frac{7788}{2004} \times nx = 67200 n; 7788 x = 67200 \times 2304 ;$

therefore x = 19880 feet, the length of the bar.

IV. Lapers on Science and Matural History.

MARVELS IN TELEGRAPH.

A new telegraphic machine has been exhibited at the Signal Bureau, in Washington, which promises to effect a remarkable re-volution in telegraphy. It is called a "multiplex telegraph," invented by Merritt Galley, and covered by several patents both in Europe and America. The object of the invention is to enable a number of instruments to be operated simultaneously on a single wire, in either or both directions, and at different stations along

Morse key or any other instrument in common use. It has long been known to telegraphers, that a telegraph wire is capable of transmitting scores of electric pulsations, where only one is now sent, for the reason that the human organs cannot keep pace with the flow of electric discharges. The "multiplex" instruments, however, are fitted with apparatus in the nature of "switches," which turn the messages off from the main wire to the branch offices. Whether the operator is transmitting to sounder or printer, he makes but one stroke for any letter of the alphabet. The transmitter is entirely original in construction; it is a single key, with a short printed alphabetical index, and but little practice is required to use it.

THE SIGNAL SERVICE FOR 1873.

We see by the Signal Report that the percentage of verifications is considerably larger this year than last. For New England it was, 81.50; for the Middle States, 81.17; for the South Atlantic, 79.92; for the Lower Lakes, 78.90; for the Eastern Gulf, 77.16; for the Upper Ohio Valley, 76.42; for the Western Gulf, 74.40; for the Upper Lakes, 75.25; and for the Northwest, 74. The general average given in last year's report was 76.8. Reports are regularly received from ninety-two stations, seventy-eight of which are in the United States; eleven are in Canada, and three in the West Indies. The regular telegraphic reports from Havana, Cuba, began on August 6th; from Kingston, Jamaica, on September 18th, and from San-tiago de Cuba, on September 29th. Three other points in the is-lands of Porto Rico, Guadaloupe, and Barbadoes, will be equipped soon. Arrangements have been made with Russia and Turkey, to commence on January 1st, the exchange of one daily report, taken simultaneously at the different stations throughout the great territorial extent of the Russian and Turkish empires, and the United It is expected that other nations will soon co-operate with States. us in this service.

The practical benefit derived from these reports can hardly be overestimated. Great pains have been taken to benefit the farmers, and arrangements have been made for daily posting the reports at 4,491 post-offices, throughout the country. To protect the business 4,491 post-offices, throughout the country. interests from injury along the rivers, a large number of reports have been made daily, giving the state of the weather, and the re-

sults are gratifying. During the year eighty-eight warnings of storms have been made, seventy of which proved to be serious. The mistakes, if any, have been on the side of caution. While on some occasions the signals ordered may have proved unnecessary, and are so reported unverified, on the other hand no extensive storms have occurred in the regions included in the system of cautionary signals without warning of its approach having been displayed in at least part of its course.

It is estimated that at least one-third of the people of this country, through these various sources, have the benefit of the weather observations.—American Educational Monthly.

SPARE THE INSECTIVOROUS BIRDS.

We would point out to our indefatigable police authorities that a number of young scamps are making havoc among the birds with slings and india-rubber "catapults." The law is stringent on this point, and a few examples made of the class referred to and their seniors, to whom years have not brought common sense or decency, who wander over the fields shooting the robins, grey-birds, &c., which enliven the country, would have a most salutary effect. Naturalists who have given the subject much time and attention, assert that the increase of slugs, spiders. &c., the pests of the gar-dener and farmer, is caused by the wholesale destruction of the small birds, and it was to remedy this miserable slaughter that the act protecting these birds was passed.

HOW LONG ANIMALS LIVE.

According to some naturalists the length of life of animals is as follows, though it is really puzzling to see how they can tell all this, especially about those that live a hundred years or more :

- The Rabbit lives from 6 to 7 years.
- The Squirrel from 7 to 8.
- The Fox from 14 to 15.
- The Cat from 15 to 16. The Dog from 16 to 18.
- The Bear and the Wolf from 18 to 20 years. The Rhinoceros from 20 to 22.
- The Horse from 22 to 25.
- The Hen from 25 to 30. The Crow and the Camel 100. The Tortoise 110. The Eagle 120. The Swan 160.
- The Elephant 40. The Whale, according to Cuvier, 100 years.

76

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JOURNAL OF EDUCATION.

77

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VI. Educational Intelligence.

-KNOX COLLEGE.-Last Thursday one of the most important events in the history of the Presbyterian Church in this country, transpired when the foundation stone of Knox College was laid. As will be seen from the statement of Principal Caven, published in full below, this is an institution which has passed through almost every grade of tribulation, so far as external difficulties have been concerned, but it is a matter for congratulation that since the commencement there has been a steady progress, and that the work has, in every department, shown marked signs of efficient and faithful labour. It is, therefore, an occasion of which the entire Presbytery should be proud, that this building should have been commenced under such favourable circumstances, with such good prospects that in the very near future it will stand entirely free from debt, and that additional facilities will thereby be afforded for carrying on the work which, during the past thirty years, has shown such magnificent results.

PLAN OF THE BUILDING.

The building now in course of erection is on the Crescent, a little north of College-street, and opposite Spadina-avenue, is designed in the Gothic style of architecture, and in plan is in the form of the letter E. The facade fronting the avenue is 230 feet in length, and the wings run-ning north are each 150 feet in length. The main entrance is under a lofty tower of 130 feet in height, and is flanked on each side with stone pillars with carved stone capitals, tracery heads, and surmounted with moulded pediments and carved stone finials. The main entrance lobby under tower will be groined with oak moulded ribs, resting on carved stone corbels. The floor will be laid with encaustic tiles. The main entrance hall is 15 feet wide, with a heavy oak staircase opposite it, leadentrance hairs to feet white, while a newy oar staticase opposite it, fedd-ing to the library, museum, reading-rooms, &c.; then to the right and laft of this main entrance are the corridors, 10 feet wide, with arches at intervals, leading to the various class-rooms, professors' rooms, lecture-room, and dining hall. There are two class-rooms, holding 80 students each, and two holding 50 each. On the ground floor are also the Secretary's room, four Professor's rooms, Senate room, visitors' room, kitchen, laundry, wash-room, housekeeper's apartments, &c. ; over these are the servants' rooms, and under are the cellars. The boiler-room is outside the central portion of the main building, and connected with the coal cellars, &c. On the first floor iu the centre of the building is the library, 50 feet long and 30 feet wide, with reading-rooms opening out of it at each end. Over the library is the museum, with a handsome timbered There are 36 rooms for the students, each room averaging 14 feet roof. by 20 feet, thus giving accommodation for about 80 resident students. The building will be heated by steam, and ventilated with a system of flues connected with a rarefied air shaft around the boiler chimney flue. There are bath rooms and water closets on each flat for the use of pro-fessors and students. The building is being erected with white brick, with stone base courses, belts, strings, sills, and door steps, moulded drips to windows with carved bosses, stone angle columns to tower, with carved capitals. The upper windows of the tower will have moulded and carved balconies, supported on carved stone corbels. All the gable conpings will be of stone, with wrought iron terminals. The windows of the lecture hall will have stone jambs and sills, resting on moulded stone strings with moulded drips, and bosses over them. The lecture hall will have a rich open-timbered hammer-beam roof. At the west end of this hall is the gallery, approached by a stair running up in a tower over the east side entrance. The whole of the roofs are to be covered with slates laid side entrance. on felt.

THE CEREMONY. - The assembly at the ceremony was particularly large, and much interest was manifested in the proceedings,

At the appointed time the Rev. W. Reid, M.A., Moderator, came forward, and said that on this occasion they were assembled to inaugurate an undertaking of great importance, which was to be a worthy result of many years' labours, which took place under less favourable circumstances. For several years the College was carried on in Grosvenorstreet, in a building formerly the residence of the Earl of Elgin, which, after some alterations, was adapted to the purpose of the College institution. The first building was found to be uncomfortably small, and it was considered that something better was needed, although, unlike a great many things in the present day, old Knox College was much better than it looked. The subject of the erection of a new building was laid before the Assembly last year, and it was then decided that the necessary steps should be taken for the erection of new buildings. Accordingly the necessary steps were taken, the work was commenced, and subscriptions flowed in through the exertions made by the Principal, Prof. Caven, and the other Professors in various parts of the country. But the canvass was not yet completed, although the result has been highly satisfactory. They had met to-day for the purpose of laying the corner-stone and They had met to day for the pulpose of laying the corner-stone and invoking the blessing of God on the erection of the building. Before proceeding with the more especial work, they would unite in singing a few verses of one of the grand old psalms which were sung by their fore-fathers in the days of old. It was one of the psalms which often

animated the hearts of their forefathers when labour and suffering too, was demanded of them.

The 46th Psalm was sung, after which the Moderator read portions of Scripture from Psalms 126-127, and Ephesians iv. Prayer was then offered up, after which the Rev. Principal Caven read a statement of the progress of the College, as follows :-

HISTORICAL SKETCH OF KNOX COLLEGE, FROM ITS ESTABLISHMENT TO THE PRESENT DATE (MARCH, 1874).

Knox College, although the title was not given till 1846, may be said to have been instituted in 1844, when at the meeting of the Synod of the Presbyterian Church of Canada, on the 14th of October, it was resolved Tresoycerian Church of Canada, on the 14th of October, it was resolved to appoint a Professor of Divinity, and a Professor of Literature and Science for conducting the studies of young men aiming at the Ministry, the Professors to be for the present stationed at Toronto. The Rev. Andrew King, a deputy from the Free Church of Scotland, interim Pro-fessor of Divinity; and Rev. Henry Esson, of Gabriel street Church, Montreal, was appointed Professor of Literature and Science. During the first session (1844-5) the attendance was in all fourteen four of whom had been students of Queen's College, Kingston, before the disrup-tion, which took place in July, 1844. The classes were conducted in an apartment of Mr. Esson's house, in James street, in the City of Toronto. The Synod, at the same meeting, in view of Dr. Robert Burns, of Paisley, who had been called by the newly organized congregation of Knox Church, in Toronto, coming out, and of his varied qualifications, appointed him as Professor of Theology, the appointment being subject to any contin-gency arising from the Synod resolving, at a future time, to separate the office of Professor from that of paster, or such other circumstances as gency analog from the Synod resolving, at a future time, to separate the office of Professor from that of pastor, or such other circumstances as might affect the decision of the Synod as to the permanent institution or the locality of the Theological Seminary of the Church. The Synod of 1845 confirmed the appointment of Dr. Burns as Pro-fessor of Divinity, and that of Mr. Esson as Professor of Literature and Bildearcher.

Philosophy.

fessor of Divinity, and that of Mr. Esson as Professor of Literature and Philosophy. In 1846, the Synod, with the view of placing the institution on a more extensive and efficient basis, appointed a Committee to consider the matter of the incorporation of the College, its name, the number of pro-fessors, the erection of suitable buildings and the establisement of an academy for the preliminary training of young men, and a boarding-house for the students. On the report of the Committee it was agreed that the College should be called "Knox College," and that steps should be taken for establishing an Academy or High School. This was done in the course of the year, the Academy being superintended by Rev. A. Gale, M.A., formerly of Hamilton, assisted by Rev. T. Wightman, formerly of Camden. No steps were taken for the erection of buildings, but the College and Academy found suitable accommodation in "Ontario Terrace," in the premises which, after having been enlarged and altered; now form the Queen's Hotel." During the session of 1846-7, able assistance was rendered in the College by Rev. Robert McCorkle, of St. Ninians, Scotland; also, by the Rev. W. Eintoul, who conducted the classes in Hebrew and in Biblical Criticism. The Synod of 1847 con-firmed the appointment of Mr. Gale as Principal of the Academy, and as professor of Classical Literature in Knox College. The Synod at the same meeting, in consideration of the increased number, nine students, requir-ing the undivided services of a professor, resolved to separate the pro-fessorship of Theology in Knox College from the pastorship of Knox Church, Toronto, and to send Rev. John Bayne, of Galt, to Britain to confer with the Colonial Committee of the Free Church, and secure, if possible, the appointment of a Professor of Theology. This mission wa³ undertaken and fulfilled, and the result was the appointment of the Rev. M. Willis, D.D., who continued to teach theology with distinguished success for the period of 23 vears. The Synod, when resolving to separate undertaken and rulfilled, and the result was the appointment of the kev. M. Willis, D.D., who continued to teach theology with distinguished success for the period of 23 years. The Synod, when resolving to separate the professorship of Theology from the office of pastor of Knox Church, expressed their sense of the great obligations under which they were to Dr. Burns for the valuable service he had rendered to the College, his watchfulness over the spiritual interests of the students, and his diligence and zeal in collecting hooks for the library

watchfulness over the spiritual interests of the students, and nis dingen-and zeal in collecting books for the library. In 1848 the Synod having expressed their great satisfaction at having obtained the valuable services of Dr. Willis, with the view of promoting the efficiency of the College, appointed Rev. William Rintoul as Professor of Hebrew, it being understood that the appointment would be an interim one, its permanance being dependent upon the provision that might be made for oriental literature in what was King's College, now the 'l'oronto' University. Mr. Rintoul discharged with great diligence and efficiency the duties of the Chair of Hebrew for several years, when, in consequence af changes in the University. it was considered no longer necessary to

the duties of the Chair of Hebrew for several years, when, in consequence of changes in the University, it was considered no longer necessary to maintain a professorship of Hebrew in Knox College. In 1849 and 1850 Rev. William Lyall afterwards connected with the Divinity Hall at Halifax, Nova Scotia, rendered important service to the College and the Church as Professor of Literature and Mental Training. The names of others might be mentioned with honour in connection with important services rendered when recomment to the College form time to I ne names of others might be mentioned with honour in connection with important services rendered when necessary to the College from time to time. It would be specially unjust not to mention the name of Rev. Ralph Robb, of Hamilton, who, until permaturely cut off in 1850, was ever ready to give aid when called upon to do so. In the early part of 1853, Professor Esson, who had been connected with the College from the beginning, and had done much to advance its interests, and promote the improvement of the students was removed by

while the Conege from the beginning, and had done much to advance in interests, and promote the improvement of the students, was removed by death. He was succeeded by the Reverend George Paxton Young, of Knox Church, Hamilton, who entered upon his duties at the beginning of the session 1853-4, and brought to his work talents of the very highest order, and a zeal and aptitude for teaching which were highly appreciated by the successing classes of students which were highly appreciated by the successive classes of students which came under his care.

by the successive classes of students which came under his care. In 1855, it became necessary to remove from the premises hitherto occupied in Ontario Terrace, Front street, and the property of "Elmsley Villa," formerly occupied by the Right Hon. the Earl of Elgin, when Governor-General of Canada, was purchased, and enlarged so as to afford accommodation for the classes and boarding department. In 1856, the Synod added to the Staff by appointing Rev. Dr. Burns

as an additional Professor; the Department of Church History and Evias an additional Professor; the Department of Church History and Evi-dences being assigned to him, while the Department of Exceptical Theo-logy was assigned to Professor Young. In 1858, an "Act of Incorporation" for the College was obtained from the Legislature. From the first establishment of the College it was not

intended that permanent provision should be made for instruction in the literary branches. After Professor Gale's retirement and death, which took place in 1854, Rev. John Laing, and subsequently Mr. James Smith, acted as teachers in the preparatory department. After the retirement of the last named gentleman, instruction in the preparatory department has the last named gentleman, instruction in the preparatory department has been given by some of the senior students, appointed from year to year by the Senate, with the exception of these years 1868-9, 69-70, 70-71, when Reverend Professor Young, who had resigned his position on the College staff in 1864, undertook at the request of the Synod, the charge

of the literary classes. Professor Young having resigned his professorship as has been mentioned in 1864, the Rev. W. Caven was in 1866 appointed Professor of Exegitical in 1864, the Rev. W. Caven was in 1866 appointed Professor of Exegitical Theology; assistance having been given during the intervening years by Rev. W. Gregg of Cooke's Church, Toronto, and Rev. W. Caven of St. Mary's, as lecture. In subsequent years valuable assistance was rendered in the College by the following gentlemen, who were appointed by the Supreme Court of the Church to lecture on particular branches, viz;-Rev. Robert Ure of Goderich, Rev. D. Inglis of Hamilton, Rev. Dr. Topp of Toronto, and Rev. Dr. Proudfoot of London, who continues by appointment of Assembly to lecture on Homiletics, and Pastoral Theology. Dr. Burns having resigned his position as Professor of Church History in 1864 heavene Emerities Professor but activities of the second s

appointment of Assembly to lecture on Homiletics, and Pastoral Theology. Dr. Burns having resigned his position as Professor of Church History in 1864, became Emeritus Professor, but continued to give service in the department until his death which took place in 1869. In 1870 Dr. Willis, to the great regret of many friends, resigned the position which he had so long and so well filled. His resignation was accepted and the very warm expression of the Assembly's sense of his services, was placed on record. In the following year Rev. Dr. Inglis of McNab street Church, Hamilton, was appointed to the vacant chair. After holding it for one year, Dr. Inglis resigned his Professorship. In 1872, Rev. W. Gregg, M.A., of Cooke's Church, Toronto, was ap-pointed Professor of Apologetics. To fill up the vacancy occasioned by the Rev. Dr. Inglis, the Rev. W. McLaren of Knox Church, Ottawa, was appointed in 1873, Professor of Systematic Theology, the classes dur-ing the intervening session having been taught by Rev. Dr. Topp of Knox Church, Toronto, and Rev. Professor Gregg. It may be interest-ing to state that from the first establishment of the College to the pre-sent time, the number of names entered in the College register is 389. Of these there are, exclusive of probationers and students, and exclusive also of those who are in other churches, either on this Continent or in the parent countries in the service of the Canada Presbyterian Church, about 170. about 170.

about 170. At the Union in 1861 the Theological Institution of the United Pres-byterian Church became united with that of the Presbyterian Church of Canada, so that both institutions are now represented by Knox College. It is proper, therefore, that in this connection as conducted in the United Presbyterian Church previous to the Union. The "Missionary Presbytery of the Canadas" representing what after-wards became known as the United Presbyterian Church in Canada, early recognized the importance of providing for a native trained ministry, but no steps were taken in the matter till 1845, when the Presbytery was constituted into a Synod. At this date a scheme for the establishment of a Theological Institution was adopted, and the Rev. Wm. Proudfoot, of London, was appointed first Professor of Theology. The Institution was located in London. Owing to the position in which King's College, Toronto, then stood, it was fourt necessary to provide for the literary training of students, as well as for their instruction in

Ang's College, foronto, then stood, it was found necessary to provide for the literary training of students, as well as for their instruction in the subjects of a theological course. The curriculum adopted embraced classics, mental and moral philosophy, logic and rhetoric as well as systema-tic theology, church history, and biblical literature; it was made to ex-tend over four sections of eight months' each. The work of the Institute commenced in the fall of 1845, the first student strapled being Mr. L. J. A. Proudfoot, now the Rev. Dr. Proudfoot of

The work of the Institute commenced in the fall of 1845, the first student enrolled being Mr. J. J. A. Proudfoot, now the Rev. Dr. Proudfoot, of London, son of the eminent man appointed to preside over the Seminary. The entire work of teaching rested upon Mr. Proudfoot till 1847, when the Rev. Alexander Mackenzie, of Goderich, was appointed to teach Hebrew, which he continued to do till the plan of study in the Institute Was re-modelled and the Institute was removed to Toronto. Mr. Mac-kenize was an accurate scholar and an earnest and painstaking teacher, and is affectionately remembered by those who had the privilege of waiting upon his instructions. In 1849 it was carried in the Synod "That owing to the change now

and is affectionately remembered by those who had the privilege of waiting upon his instructions. In 1849, it was carried in the Synod, "That owing to the change now effected in King's College, Toronto, whereby it was made a Provincial Institution, it is no longer necessary that the object of the Institute ex-tend beyond the Teaching of Theology." It was at the same time re-solved to transfer the Theological Institute to Toronto. Its next Session was accordingly held in that city, in the Church of the Rev. Dr. Jen-nings. This was the last session conducted by Mr. Proudfoot, for he be-came ill immediately on returning from London, at its close, and died on the January following. Mr. Proudfoot was a man of rare abilities and attainments, possessing a mind of uncommon strength and clearness, but finely harmonized in all its intellectual attributes. He was not less dis-tinguished by his high moral qualities and the singleness of purpose with which he consecrated all his powers to his Maxter's service. In 1852, the Rev. Dr. John Taylor, of Auchtermuchty, Scotland, who had been chosen successor to Mr. Proudfoot, came to Toronto, and con-tinued to discharge the duties of Theological Professor till 1860, in which *Taylor*, and sent forth from session to session men who proved valuable additions to the Church's staff of labourers. In 1860, as above said, Dr. Taylor, and sent forth from session to session men who proved valuable additions to the Church's staff of labourers. In 1860, as above said, Dr.

Taylor, and sent forth from session to session men who proved valuable additions to the Church's staff of labourers. In 1860, as above said, Dr. Taylor, to the great.regret of all, returned to Scotland, and the Church was deprived of the services of one preeminently fitted, by his high talents, his accurate scholarship, and his extensive acquaintance with theological learning, to take part in moulding the future ministry of the Presbyterian Church in Canada.

The union of the Presbyterian Church of Canada and the United Pres byterian Church in Canada was auspiciously consummated in 1861. At. byterian Church in Canada was auspiciously consummated in 1861. At this time ten young men were in their theological course in connection with the United Presbyterian Church. These all entered Knox College and completed their curriculum there, and from this date till the es-tablishment of the Presbyterian College in Montreal, the history of Knox College is the history of theological education in the Canada Presbyterian Church. The larger stream and the smaller have now united, and Knox Cullege is now meraded it is holicourd with equal offsation here all more College is now regarded, it is believed, with equal affection by all mem-bers of the United Church who take an enlightened interest in the Church's work.

For some time it has been felt that more commodious and suitable buildings were necessary for College purposes. The matter was taken up by the College Board in 1873, and the sanction of the Assembly having been obtained, an appeal was made to the congregations, the Professors taking a leading part in the work. The result has been highly satisfactory, and it is hoped that the building, the corner-stone of which is to be laid to done will have margin and to the city and a madi to be to-day, will long remain an ornament to the city, and a credit to the Presbyterian Church, and that from it will go forth many able and faith-ful ministers of the New Testament.

The staff at present is as follows: - Rev. W. Caven, - Principal and Professor of Exceptical Theology. Rev. W. Gregg, -- Professor of Apolo-getics and Church History. Rev. W. McLaren, -- Professor of Systematic Theology. Rev. J. J. A. Proudfoot, D.D. -- Lecturer on Homoletics and Pastoral Theology. H. H. McPherson, M.A., and P. Straith, -- Classical Tutors.

Tutors. Professor Caven said, that up to the present 76 congregations of the Church had been canvassed with much success, the subscriptions up to the present amounting to \$74,400. But he might state that still more was required. A further sum of \$26,000 was required in order to make the list secure. There were some 130 congregations on the list, but a large number of these were not expected to do much. They wanted the old congregations to do all they could, and he hoped that many of the strong congregations would do as well as those at Hamilton, Toronto, Guelph, and other places. The work was begun in the name of God; and they must not forget the words of Psalmist, as just now read by the Moderator : "Except the Lord build the house they labour in vain that build it." This was a religious work, and he trusted that the work of the College would continue to be conducted in a religious spirit.

in a religious spirit. The Moderator then called the Hon. J. McMurrich to lay the founda-tion stone. Hon. Mr. McMurrich said he felt very much gratified in being called on to take part in this interesting ceremony. Some thirty years ago Knox College commenced in an humble building on James St. years ago Knox College commenced in an humble building on James St. and the history of the ('ollege was continued to be raised up from that time until now. 'they commenced with two professors, one of whom had long since gone to his rest and reward. Professor Burns, Rev. Mr. Gale, and the Rev. Mr. Rintoul, had all gone to the rest where they rest neither day nor night. When the College was first started, the accom-modation provided was very small; in the following year more extended accommodation was provided, and more respectable too-by the leasing of two houses on Front street, which were united by the breaking through of the dividing walls of the two houses. Ten years' work was carried on in these premises, and in 1855 they removed to other buildings close by of two houses on Front street, which were united by the breaking through of the dividing walls of the two houses. Ten years' work was carried on in these premises, and in 1855 they removed to other buildings close by, where the good work had been carried on with success for the past nine-teen years, making thirty years from the commencement. The work had been carried on with success attending it, although surrounded with in-conveniencies and difficulties, arising from the fact of the building not having been originally built for the purpose of college work. The time has now come when the Church has become alive to its duty. They have commenced this building, which, when erected will be worthy of the Presbyterian Church, and the pride of all the Presbyterian brethren who take an interest in it. This was a step in the history of the college which marks not only the progress to completion of the work, but also from this time the church and college will take their various departures. And when the building is completed and set apart for the purposes for which it is being erected, he trust-d there will be found within its walls professors eminent for their piety—men of ability, apt to teach and keep abreast of the times; and that theresult of their labours will be to send forth from year to year, able ministers of the New Testament. With these few remarks, he would proceed in laying the foundation stone in the name of the Lord Jesus Christ, the only King and Head of His Church. May He crown their labours with abundant success, and to the glory of His name. The stone, having been properly prepared, was then lowered into position, and Mr. McMurrich declared the stone 'to be well made and truly laid. and truly laid.

Into position, and the here into a detailed the bound to be well made and truly laid. Professor Gregg said, that reference had already been made to the steps taken towards the erection of the present building, the amount of money required to complete it, and the amount of money already subscribed, and therefore he would not again revert to these topics. But he might make a few remarks as to the present state of the College, so far as the students are concerned. They had, at the close of the last session, 38 theological students in the classes, of whom sixteen were graduate students, who probably would receive their licenses during the next few months. Besides these there were the literary classes immedi-ately under their charge, in which there were eighteen students pursuing their studies within the walls of Knox College and the University. In illustration of this he might mention that they had thirty-six students in the University pursuing their studies with a view of entering Knox College. So altogether in Toronto they had in connection with the Church upwards of 90 young men who were to become ministers in the Canada Presbyterian Church. There were also about 40 students pursuing their studies in the Montreal Presbyterian College and McGill University with a view of becoming ministers of the Church. Thus there were 130 stu-dents in the literary and theological classes pursuing their studies. He hoped to have another opportunity of saying a few words in the evening, and he would be glad if those present would try to be present at that meeting, which would be held in the school house at Knox Church. The Rev. Dr. Topp then pronounced the Benediction, and the proceed-

The Rev. Dr. Topp then pronounced the Benediction, and the proceedings closed. - British American Presbyterian.

VII. Short Critical Notices of Books.

-The ALDINE* for May sustains the extremely good reputation which the publication has acquired since its first issue. This month's illustrations of scenery in Florida by T. D. Woodward-a subject seldom attempted, and still more seldom successfully treated-are excellent. In addition to their value as delineations of tropical scenery, they are really fine pictures, especially "Moonrise on the coast of Florida !"--"The Hemlocks of Lake Ostego," by Mr. Hows, a more northern story, is good. The other illustrations are "A Dying Hound," (a touching incident of the "Deerslayer" times), "The Bashful Lover," "A Retriever," and "The New Capitol at Hartford, Conn." The letter press contains, among other things, an account of the Exhibition of the American Society of water-color Painters, which contains criticisms on Foreign artists who contributed to the Exhibition-some of which sound strange to our ears.

THE LAND OF THE WHITE ELEPHANT, † by Frank Vincent, Junr.---A volume of travel in Farther India, Burmah, Siam and Cambodia; or as the author poetically terms it, the "Land of the White Elephant." This is a region which must now attract our thoughts as we view the influx of so many of the neighbouring people (the heathen "chince") into our continent, knowing as we do the important changes which have been silently in progress in Japan, and other eastern countries, and which the writer assures us are spreading to the land where he has been travelling, and about which he has here written. The only merit the author claims for his book is one which cannot be too steadily kept in view by writers, that of truth. It is one which is constantly obtaining more recognition as superior to beauty of style, and which should underlie the restthough not as some put it, far too deep down to be seen or felt. It is not this, however, as Mr. Vincent modestly asserts, which is the only recommendation of his book, for we do not doubt that the interesting descriptions of many places which he visited will be read with great interest by those who have themselves seen the "White Elephant," and not less so by those who are as yet but prospecting voyageurs.

THE ATMOSPHERE, + by Camille Hammarion, edited by James Glashier, F.R.S. This is, as the Editor of the English edition tells us, an abridgment of a most exhaustive work in a popular form on the science of Meteorology. Our planet, light, temperature, wind, clouds and rain and electricity, in fact, everything which bears on this comparatively modern science, is treated in a way which makes it especially valuable to a student, without degenerating into every general reader's horror-a mere text book. The work is well illustrated with over ninety chromos and woodcuts of interesting phenomena, while the style is like that of most French writers, easy and flowing. We commend the book as a most valuable one to those who, like ourselves, like to speculate over the daily weather "probabilities" of the meteorological Bureau.

-We have received the Library edition of Adolphus Trollope's "Diamond cut Diamond," and Gail Hamilton's latest, "Twelve miles from a Lemon," the latter we shall refer to in our next number.

VIII. Departmental Aotices.

VOTERS FOR MEMBERS OF THE COUNCIL OF PUBLIC INSTRUCTION.

holding valid certificates are entitled to be enrolled in the list of voters for a member of the Council of Public Instruction, notice is hereby given, that the law confines that privilege to the "Teachers in the Public and Separate Schools." Those who are not in active service in the Schools at the time the list is being made up and corrected, that is to say between 15th June and 14th July, are not entitled to vote.

NOTICE.

The Spring Term of the High Schools this year will close on Friday, 26th June, in order to facilitate the holding of the entrance examinations on the 29th and 30th of that month.

ENGRAVINGS OF SCHOOL HOUSE PLANS.

The Chief Superintendent of Education proposes to have engraved and inserted, from time to time, in the Journal of Education, the perspective and ground plan, with description of any Public or High School House in Ontario which may be sent to him for that purpose, and which he may deem of sufficient merit to warrant it. The perspective and plan m^{ay} either be from a photograph or a sketch; but the perspective should in no case exceed six inches in length by four in width, and the plan should not be larger than three inches by four. A full description of the building, with specifications, should also be sent for insertion in the Journal.

PAYMENT OF TEACHERS' CHEQUES.

The Education Department requests that Inspectors will add the following words to the cheques which they may issue to Public Schools, or write them across the face of the cheque:-

"This cheque must be presented to the Treasurer for payment within two weeks of its date."

Inspectors generally complain of the great remissness of Trustees not sending in their orders until too often the amount payable to teachers has been apportioned and is available for them-even after the Trustees have been notified on the subject by the Inspector. One Inspector suggests as a remedy, "Those Trustees blank orders attached to the inside of the blank half-yearly returns, with directions to have them signed and forwarded with the returns.

CORRESPONDENTS OF THE DEPARTMENT.

1. Letters should be addressed to the "Education Office, or "Education Department," and not to the "Normal School," which is a Branch of the Department, having its own letter-box at the Post Office.

2. Application for Maps, Apparatus, Prize or Library Books should (as stated on the face of them) be accompanied with the remittance named in the application. It should not be en closed in a separate envelope, unless the fact is specially noted on the application. Very often the application (stating that a certain sum is enclosed) comes in one envelope and the money in another. This discrepancy should not occur without an explanation being given in the letter. The Post Office authorities do not now allow the form of application filled up to Pass through the post as printed matter.

3. The name of the Post Office of the writer, or School Sec tion, should invariably be mentioned in the letter. Frequently letters are received without either the date or post office being given in them.

4. Letters are often posted and registered at one office, $w_{hil}^{jl\theta}$ another one is mentioned in the letters themselves. This fact should be noted in the letter by the writer, otherwise the discrepancy causes confusion and inconvenience in the letter registry of money receipts.

EXAMINATION PAPERS.

The sets of Examination Papers used in the Normal School during the 20th, 21st, 22nd, 23rd and 24th Sessions can be sent Several inquiries having been made as to whether all persons ree of postage on receipt of 30 cents each. Those of the 25th, 26th, 27th, 28th, 31st, 33rd, 36th, 38th, 39th, 40th, 41st, 42nd, 43rd and 44th Sessions, at 40 cents each, and those of the 45th, 47th and 48th Sessions, at 50 cents each.

The entire sets of Examination Papers for First, Second and Third Class Teachers for July 1871, July 1873, or December, 1873, neatly stitched, can be sent free of postage on receipt of 60 cents per set. Those used at the County Examinations for Second and Third Class Teachers for July 1871, July 1872, December 1879, Laboratory 1870, July 1871, July 1870, be December 1872, July 1873, or December, 1873, can also be sent, free of postage, on receipt of 50 cents per set,

^{*} Toronto Office, 50 King St., East. + Harper and Brothers, New York ; Hart and Bawlinson (late Copp, Clark & Co.,) To ronto.