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# The Canada School Journal. 

Vol. IX.

The (fanada School boarnal is published the ymat of each yonth at 54 FRONT STREET WEST, TORONTO, ONT., CAN. Subscription $\$ 1.00$ per year, payable in advance. Address-W. J. GAGE \& CO.. Toronto.<br>CANADA SCHOOL JOURNAL has received<br>An Honorable Mention at Paris Frxibition, 1878.<br>Recom mended by the Miniueter of Education' for Ontarvo.<br>Recommended out the Counsili or Public Intruction, Quebec.<br><br>Recom mended by Chies Supprintendent of Education, Nooa Sutian.<br>Recommendece by chivs Superintendent of Edication, Brotuh Columbia. Recommended by Chief Superintendent of Education, Maniooba.

The Publlohers Arequently recoive letters from their arlends complaining of the non-recelpt of the JOURNAL. In explanation they would state, as subecriptions are necessarily payable in advance, the radiling clerics have instructions to discontinue the paper when is subecription expiree. The clerks are, of course, unable to make ainy distinctior in a list containing names from all parts of the United States and Canadia.

## ENTRANCE EXAMINATIONS.

In the Report just presented the Senior Inspector discusses this topic at some length. With respect to the examination for admission, he observes that the principles of elementary arithmetic are really few and simple, and that with the improved methods of teaching that subject, the slightly higher standard recently adopted has had a perceptibly beneficial effect. He thinks that the adverse criticism of the arithmetic papers has been confined to a few habitual complainers. A better style of exhibiting the work on paper has been attained, but there is still greater improvement needed in t.i.is respect. We fear the root of the evil lies in the teachers, and we cordially invite attention to the undoubted fact that neatness and accuracy go hand in hand in all mathematical studies. Teachers cannot insist too strongly upon having neat work and logical arrangement of all processes. Pupils must be trained to put down the whole work, even the simplest steps, if they are to secure a thorough grasp of the subject. No other time in school is spent to better purpose, than that occupied in making pupils write and re-write on the blackboards or on paper, neat, clear, logical statements of their arithmetical work. It is a piece of training that will be valuable for life, no matter what position the pupils may afterwards be called to fill. It is the best practical cure for careless and slip-shod thinking. The Inspector thinks there is no force in the objections to the "outline plan" of teaching history to beginners. On this point, as our readers are fully aware, we hold a different view. We hope to see the course for public schools limited to a special period, say from 1688 to the present time, so that the pupils may gain a real knowledge of the social and political state of England during at least one period. No one pretends to say that under the present plan anything more than "drum and trumpet history" can be possible.

In literature, the present selections are admitted to be very poor, and a separate collection of choice pieces is proposed. This is certainly a good suggestion, especially if the proposed selections were to be made sufficiently numerous to admit of new work for, say, three succeeding examinations. On the papers it would be well also to insist upon the pupils being able to quote from memory most of the pieces set down for study. A pupil's vocabulary is very little enlarged by such a mere study of words as comes to him from the mastery of a spelling book. In this connection it would be well also to exact prose as well as poetry. The reading book should be used for its legitimate purposes alone, and boys and girls should be able to read any page of their fourth reader with a fair amount of intelligencc and expression, instead of knowing only the few lessons studied as literature In reply to numerous enquiries we give in another column the literature selected from the readers for the next examination, which will be held Thursday and Friday, July 3rd and 4th.

## DRAWING.

The Normal Schools are now turning out teachers qualified to teach elementary drawing with considerable skill. This will prove the real fulcrum by means of which the standard of attainment will be succesffully elevated throughout the schools. The subject is so pleasant that it is virtually a recreation in school, and a little leaven will be sufficient to leaven the whole lump. Just as soon as our teachers fairly discover the simplicity of the thing they will everywhere begin to use it as a relief from the monotony and tedium of ordinary school drudgery. Penmanship will receive an immense stimulation, and lack of style and neatness in mechanical work will cease to be a standing reproach to our excellent public schools. If geometrical drawing could be well taught in all the high and county model schools also for the ncxt two years the effect would be felt in the public schools for many years to come. Whereyer it has been tried it has been found that the youngest children soon become fond of the drawing lesson and spend happy hours over it, while, at the same time, they are cultivating their taste, developing ingenuity, securing dexterity of the hand and quickness and accuracy of the eye.

In the Report for the current year, Dr. McLollan points out the special disadvantages under which the subject has been placed. It has been encouraged, but only nominally. It has not been allowed to become a mark-earning option. There is a continual demand for so-called practical education, and yet drawing, which is really the basis of manual and designing skill, has been either wholly ignored, or only nominally encouraged. There is not a single occupation in this country in which an elementary knowledge of the subject is not of great practical utility to the possessor. The farmer has need of it a hundred times a year, and often has'to pay dearly for
his inability to sketch some simple draught. In all trades it is of great utility, and a teacher who can rapidly sketch off an outline picture on the blackboard is worth at least onethird more for general school purposes than the teacher who has no such practical skill. If a boy begins to study-Latin or algebra he gets very little value for the time spent unless he can carry on his studies for at least a year, but with drawing he gets full value for the time, even if he is compelled to break of his studies at the end of a single month. looking simply at the utility of the subject, we heartily agree with the proposal to make it more or less obligatory in all our schools. To the teacher of junior classes it is absolutely an essential requirement. As a means of producing the refinement and culture at which all education aims, it is second to none of the studies on our programme. All that is needed is to secure for every teacher a good systematic course of elementary instruction, such as the Normal Schools and the School of Art now supply, and the rest will soon follow easily and maturally. In the meantime, if those who have not these advantages. would show a little private enterprise and provide themselves with Walter Smith's manuals, they might easily accomplish results that would astonish themselves and very materially assist to prepare their pupils for the practical duties of after life.

## SECONDARY EDUCATION IN THE MARITIME PROVINCES.

It is known to most readers in the Jotrensi that for some years past considerable agitation has prevailed both in Nova Scotia and New Brunswick respecting the modes by which the interests of secondary education are fostered. The Reports of the Superintendents, Dr. Allison and Mr. Crocket, lead us to suppose that carly legislation on the subject is probable in both Provinces. We think it will interest our readers to have placed before them the substance of the suggestions offered by the respective Superintendents.
Dr. Allison proposes for Nova Scotia as follows:

1. Let a special legislative umnt be prowided for all teachers of the Academic class (Grade A) employed in sections (other than those niaintaining a Provincial Academy) which have a system of regularly graded Public Schools of at least three cemartments; subject to the following conditions:
(i.) That this grant be paid only to teachers employed for at least one year continuously in the section.
(2.) That the teacher chaining thes grant be in chargo of the advanced department of the school.
(3.) That on an annual inspection and examination of the department by the Inspector in whise district it is situated, a required percentage of the remstered pupils show a satisfactory bnowledge of the subjects embraced in the first year of a prescribed course of High Schonl studies.
(4.) That proper conditions for prosecuting advanced studies aro provided by trustees.
II. Let provisions be made for a class of institutions to be known as Provicicial Academise, the privilege of establishing which shand be open indiscrumately to the school sections of the Province, due security being tiken that such cstablishment shitll alvayls inrulre a large amount of local effint, and be justifici by existivg cilncational corcumstance. I would suggest the following conditions as necessary to guaranteo High achuols of a bona fide character:-
(1.) The employment of at least tued, qualified profezsors or teachers exclusivcly engaged in Academic Instruction.
(2.) Tho certified attendance of a minimum number of pupils duly qualified according to a prescribed course of stuily. It should he the duty of the Superintendent of Education to lold an anmal iuspection and exammanation of these Academies, and the pasxing of a required percentage of the pupils should be essential to participution in Procingial funds.
(3.) Such an outfit of class room accommodntion and scientific apparatus, as, in comnection with a superior teaching staff, will adequately prepare pupils uot only for college aud entrauce upon the professions, hat is educated persons, for intelligent dovation to the varied interests which make up the common life of the people of Nova Scotia.
Tho genoral outlines of this plan having been established by Tosishotionn. the working nut of subordinnte details should be left to the Comacil of Pablic Instruction. That only cominunities able and willing to carr! it into successfal exectition, shonde engage in the ntfempit to fu muld sicch institutions, is a point which should be guarded with the greatest care.

## For New Brunswirk Superintendent Crocket suggests :

1. That the Grammar Schonl Acts be repealed, and that the property held by the Grimmar schol trustees be tramserred to the schuol trustees in the district in which it lies.
2 That the provision relating to the apportionment of the "superior allowance" be also repealed.
2. That the present apportionment for grammar schonls and for superior allowance cunstitute a grant to be apphed under regulations of the Board of Education to the following classes of schools, which boards of trustecs should bo enppowered to establish with such limitations as are set forth :-
(a) Superior Schools. Superior schools may be establishted in each county on the following basis :-One superior sclool shall be allowed to cach 6,000 inhabitants, and if the county after being divided by 6,000 leaves a rennainder of 5,000 or over, another such school may be established.
(b) Countiy Grammar Schools.--One grammar school may be established in a county, or in lieu thercof an additional superior school.
A gramimar schuol should not be established in the same parish with a superiur school.
(c) Prociucial Gremmar Schools.-One provincial grammar school may be established for each 64,000 imhabitauts, and the boards of trustees of Chatham or Newcastle, Moncton, St. John. Fredericton, and St. Stephen should be empowered to establish the same in their respective districts.

## MR. D. J. GOGGIN.

- head master of winnipeg nok̀mal school.

The numerous friends of this gentleman will be glad to hear of the appointment of such a thoroughly competent man to the highly responsible position of Head Master of the Wimnipeg Normal School. Next:to the establishment of the Normal Schools themselves, the appointment of the teachers who are to train our teachers is of prime importance. Scholarship is necessary, but. scholarship, alone can do very little to the purpose unless accompanied by special aptitude for teaching and special preparation for normal work. To place untrained teachers at the head of teachers' training schools is so absurd that it needs only to be, stated: to be ridiculed.
In securing Mr. Goggin, the Manitoba authorities have placed their young institution under the care of one of the most enthusiastic and thoroughly trained teachers that could be selected. He began his career as teacher in 1868, as master of a genuine old skull-cap log school house in the township of Cartwright, Durham County. In 1869 he was appointed to the school in the village of Williansburgh, the largest school in the township. During 1870 he $r$ 'eñded the Whitby High School, of which Professor Kirkia i, now of

Toronto Normal School, was then principal, and at the close of the $y$ ar was appointed Assistant Master in the High School. The following year he was Head Master of the Millbrook Public School and held that position until midsummer 1873. At that time his repputation as a teacher of more than ordinary excellence was so well established, that he was selected as Head Master of the Port Hupe P'ublic Schouls when they were separated from the High School. Here he had thirteen assitants, and a wider field for his talents. It is needloss to say how well his distinguished success during the past ten years has justified the wisdom of the selection. Under, his energetic and skilful management these schouls have gradually risen to the very first rank in this province. In 1877 the County Model School was placed under his charge, and he has thus had already seven jears' experience in the training of eachers. In this capacity his peculiar aptitude and talent fur this important work have been mure and more apparem and have secured him a reputation second to that of no other Model School Master in Ontario. He has enjoyed the fullest confidence of his fellow-teachers, who twice elected him President of the County 'Teachers' Association, of which he has always been an active and progressive member. His loss will be keenly felt in educational circles here where his faithful and efficient labors have been appreciated far beyond their immediate spherc. He will carry with him to his new field the hearty good will of every fellow laborer and fr.end of education.
Mr. Goggin holds the highest grade of Provincial Certuticate and is an undergraduate of the fourth year in Victoria University. If encrgy, tact, and thorough training have not lust their ancient power, his future success is already assured, and his present appomement may well be an encouragement to every teacher to do solid work which is sure to stand like the pyramids-"all else is chaff, which let the winds drive where they will."

## DEATH OF INSPECTOR BUTLER.

We mourntully record the death of another educationist departed from our ranks. Inspector Butler died early in March after a short illness with congestion of, the lungs. In the prime of life with his mind in its full vigor he has been called from his work which has been faithfully done.
A. F. Butler, B. Sc., was born at Auburn, Ohio, Oct. 17th, 1833, and was consequently only a littic over fifty at the time of his demise. He attended Auburn College in his youth, and began to teach school at the age of seventeen. In a few years he went to Hiram College and spent two years there under the tuition of the late President Garfield who commanded his respect and admiration. Afterwards he became a student at Ann Arbor Cniversity where he graduated as Bachelor of Science in $\mathbf{2} 859$ and was married in the sameyear to Miss Augusta P. King, who now nourns his loss. After succéssful teaching at Brimfield and at Canton, Ohio, he came to Canada in 1863 and taught the Aylmer public school for four years, and the Fingal School for a short time. In i 868 he was appointed

Local Superintendent of the public school, an office which he filled untit r87r when he was appointed first Inspector of Public Schools for Elgin under the new act. He has resided at St. Thomas ever since and was one of the best known men in the county. He was everywhere a welcome visitor buth at the fireside and in the schoolroom, and his genial disposition made him many friends. A man careless of outward appearance, Mr. Butler carried beneath a somewhat rough exterior a warm heart and an active mind. He was a fluent speaker, and possessed sume of the magnetism of quiet, commanding eloquence. In 1877 he wrote a history of the county of Flgin which exhibited his literary facility and his genial humanity. He was very fond of good horses and generally drove the finest he could purchase. He was a member of the Masonic Fraternity and also of the United Workmen and his family have the benefit of a $\$ 2,000$ policy in the latter society. The sympathy of many warm friends will be extended to his sorrowing widow and to his mother who at the advanced age of seventy-six survives him at the old home in Auburn.

## DEATH OF INSPECTOR DEWAR.

Contrary to the hopes of a large circle of devoted friends Inspector Dewar of Huron never rallied from the illness which prostrated him some months ago. He passed peacefully away trom earth on the 26 th of February. He leaves a widow, three sons and two daughters to mourn his loss. He will lung be remembered throughout his late inspectorate where his name had become a houschold word and his genial presence had made him a welcome visitor. He was of Highland extraction and spent his youth in the county of Lanark, removing with his parents to the county of Lambton. At.the Sarnia High School he received the first outlines of higher education from Mr. Walker, who was for many years the head master. He attended two sessions at the Toronto Normal School and received the highest grade of first class certiticate. He taught the school in the village of Harpurhey for over ten years, and was principal of the Seaforth Public schools for many years previously to his appointment as Inspector of East Huron, a district including a vast area and about a hundred schools. Mr. Dewar was characterized by great earnestness of purpose and sincerity of character; he had an extensive acquaintance with general literature and was familiar with the leading theories of education. His whole life was an example of successful struggle against difficultiés, and he goes to his rest honored for the faithrul and conscientious discharge of his duties.

The annual Report of Inspector Tilleyof Durham County is a mudel ot care and thoroughness. It gives complete infor:mation regarding every school in the district and enables trustees and teachers to see at a glance just where they stand relatively to the other schools in the county. We find first the general remarks of the Inspector from which we give a few characieristic extracts in another column. Then follows a special report of five to ten lines on each school in the seven.
townships, in which commendation of good work by tenchers and trustees is heartily given, while shortconings are faithfully yet delicately pointed out. Table A gives the replies to the questions:-How many times has the floor been scrubbed in 1883? Have the walls been whitewashed or tinted? Has woodwork been painted? Have any decorations been put up? What other improvements? This table shows general attention to the beautifying of school premises. Table B gives the results of the two promotion examinations. Table C classifies all the schools into four grades on the basis of efficiency, and Table D docs the same thing on the basis of condition of school premises. Table E gives the legal qualification of the hundred and fourteen teachers, their respective salaries and the average attendance at their schools. Nearly eighty hold permanent certificates. The Inspector says: "There is one thing which especially characterizes our schools -the maintenance of good order without having recourse to severity.......mutual good feeling seems generally to exist between teachers and pupils."

## REPORTS OF CASES.

There is no doubt that, with a right method and under proper conditions, "object teaching" is a very valuable agent in the intellectual development of the young mind. But as sometimes done, it is a nuisance, because it is a mere glitter of words and takes up valuable time. In a lecture upon the subject by Mr. J. H. Gladstone, of the London Royal Society, the following incident, showing how teaching with objects is very frequently done, is given:
"I have been told of a gentleman who used to teach science in schools; a friend of mine, who knew him, and did not approve of his method, and said so, was invited to come and witness its operation; whereupon he paid a visit to the school, and the teacher said, 'Here you can have botany, astronomy, physiology, or anything else. What would jou like to ast' my class about?' 'Suppose you take the solar system? A diagram of the solar system was hung up, and on his pointing to different things his pupil, cxphained the figure in the centre as the sun, the positions of Mercury and Venus, and so on. When he pointed to a particular circle, they explained that that was the orbit of Venus. The whole thing was gone through with in a very satisfactory way, and they gave pat answers to the questions of the teacher. The visitor then offered to put a few questions. He began by asking, 'What is an orbit?' None of them knew. They had used the word orbit, but did not know what an orbit was. 'But,' he continued, 'can you not give me something near it? Is it a coal-scutte, or a flower-pot?' One little boy said, 'A-coalscutte, sir!' 'That not being right, the rest of the class joined in saying that it was a flower-pot."

An officer had been sent to the house of a boy to inquire the cause of his absence. The officer, on his way back, met the boy and brought him inio school. Soon after, the mother came to the building and told the principal that the boy was at home sick; he had been very ill the whole night, and she had had four doctors at his bedside. She was thanked kindly for the trouble she had taken to inform him of the serious illiness of her son, and .hen the boy was called out and punished thoroughly for absenting himself from school without his mother's consent.

## INTERMEDIATE AND SECOND CLASS, 1885.

## LITERATURE.

Evoliss. Scott.-The Lady of the Lake, especially Canto V.
Latiol Irving.-Rip Vam Winkle.
Cicero.-Cato Majur.
Orid.-Fusti, Book I., lines 1 to 300.
Frence. Bonnechose.-Lazare Hache.
Gerafan, S'chiller.-Belagerung Von Antwerpen, Der Taucher.

- First-Class Grade C. 1885.

Shatiespeare.-Curiolanus.
Ncott. -The Lady of the Lake, especinlly Canto V.
Irving. - Rip Vau Winkle.
: First-Class, Gliders A. and B. 1885.
Shakespeare. - Romeo and Juliet.
Chaucer.-Prolugue and The Nonne Prestes Tale.
Pope.-Prologue to the Sitires.
Addison. - Selections from his Contributions to tho Spectator, made by J. Arnold under the headings, (1) Mamners, Fashions, and Humors; and (2) Tales and Allegorics. (Clarendon Préss series.) Wordsworth. -Sonnets in Matthew Arnold's Selection.
Mucauley.-Life and writings of Addison.
Books of Ruferenco recommended :-Dowden's Mind and Art of $\stackrel{F}{ } \cdot$ akespcare, Gervininus's Commentaries.

## Date of Examinations, 1884.

Intermediate and Sicond Class.-Monday July 7 to Monday 14. First Cluss Grade C.-Tuesday July 15 to Tuesday 22.
First Class Grades A and B.-Weduescay July 23 to Saturday 20.
ENTRANCE EXAMINATION JULY 3 rd and 4 th, 1884. LITERATURE.

## 1.-selections from ontakio readers.

(1) The Norwegian Colonies in Greenland.-Scoresby.
(2) The Founding of The North American Colonies.-Pedley.
(3) The Voyage of the "Golden Hind."-British Euterprise.
(4) The Discovery of America.-Nubertson.
(D) The Death of Montcaln. - Hawkius.
(6) Jacques Cartier at Hochelaga.-Hawkins.
(7) Cortez in Mexico.-C'ussells' Paper.
(8) The Buccancers.-I'he Sea.
(9) The Earthquake of Caraccis.- Humboldt.
(10) The Conquest of Peru.-Amnals of Romantic Adventure.
(11) The Conquest of Wales. - White's Landmarks.
(12) Hermam, the Deliverer of Gernany.-Jerver.
(18) The Burning of Moscow.-Seyur's Narratize.
(14) The Battle of Thermupyla.-Raleinh.
(15) The Destruction of Pumpeii.- Alugurine of $A$ art.
(liv) The Taking of Gibraltar.-Occ:laid Route.
2.-selections from royal neader series.
(1) Stinzas from "The Princess," p. 13.-Tennyson.
(2) The Unwritten Histury of Our Forefathers.-IJackenzie.
(3) The Sky Lark. - Hogy.
(4) The Soldier's Dream.-Campbell.
(5) Goldsmith. -Thäckecuy.
(6) The Charge at Waterluo.-Scott.
(7) Barold Skimpolo.-Dickens.
(8) "Ho giveth His Bolovel Slecp."-Brouming.
(9) The Black Hole of Calcutta.-Macaulay.
(10) Sunset Wings.- Rossetti.
(11) The Black Princo at Crecy.-Stanley.
(12) The Water Fairy.-Swinhurne.

## 3.-selections from canaluian reader series.

(1) Ye'Mariners of England.-Campbell.
(2) The Taking of Roxburgh. Castle.-Stott.
(3) The Town Pump.-Mauthome,
(4) The Cloud. - Nhelley
(5) The Sayaciusi Cadi-I. and II.-Houschold Worde,
(6) The Canadian Boat Eong, - Moore.
(7) Dare to do Right.-Hnghes.
(8) The Death of Wellington.-Disraeli.
(9) A Psalni of Life.-Lonyfellouc.
(10) The Eve of Quatre Bras.-Byron.
(11) The Burial of Sir John Moore.-W Wife.

## shthathenatical Bicpartment.

## ELEMENTARY ALGEBRA.

1. Rosolve $x^{10}-65530$ into five factors.
$x^{16}-2^{10}=\left(x^{8}+2^{3}\right)\left(x^{4}+2^{4}\right)\left(x^{3}+2^{2}\right)(x+2)(x-2)$.
2. Fuctor $729 x^{21}+343 y^{27}$.
$\left(9 x^{7}\right)^{3}+\left(7 y^{9}\right)^{3}=\left(9 x^{7}+7 y^{9}\right)\left(31 x^{4}-63 x^{7} y^{9}+49 y^{19}\right)$.
3. Solve $(x+a)(2 x+b+c)^{2}=(x+b)(2 x+a+c)^{2}$.
$\frac{r+a}{x+b}=\left(\frac{2 x+a+c}{2 x+b+c}\right)^{2}$.
$\therefore 1+\frac{a-b}{x+b}=\left(1+\frac{a-b}{2 x+b+c}\right)^{2}=1+\frac{2(a-b)}{2 x+b+c}+\frac{(a-b)^{2}}{(2 x+b+c)^{2}}$
$\therefore \frac{1}{x+b}-\frac{2}{2 x+b+c}=\frac{a-b}{(2 x+b+c)^{2}}$
$\therefore \quad \frac{c-b}{x+b}=\frac{a-b}{2 x+b+c} \cdot$ Multiplying out and collecting,
i.e. $x(a+b-2 c)=c^{2}-a b$.
$\therefore \quad x=\left(c^{2}-a b\right)+(a+b-2 c)$.
4. Which is greater $\sqrt{5}+\sqrt{ } 14$ or $\sqrt{3}+3,12$ ?

Squaring wo have $19+2,70><21+(6 \sqrt{6}$ :
$\begin{array}{lrl}\text { Trans. and div. and } \\ \text { Squaring } & \sqrt{7} 0 & ><1+3 \sqrt{6}: \\ 70 & ><55+6 \sqrt{6} . \quad \text { i } 5><6 \sqrt{ } 6 . \\ & 5> & <2 \sqrt{ } 6 .\end{array}$ $25 \ll 24 . \quad \therefore$. The former is g :eater.
Б. Solve $\left(\frac{a+x}{a-x}\right)^{2}=1+\frac{c x}{a b}$.

$$
\left(1+\frac{2 x}{a-x}\right)^{2}=1+\frac{4 x}{a-x}+\frac{4 x^{2}}{(a-x)^{2}}=1+\frac{c x}{a b} .
$$

$\therefore \quad x=0$, and $\frac{1}{a-x}+\frac{x}{(a-x)^{2}}=\frac{a}{4 a b}$.
$\therefore \quad \frac{a}{(a-x)^{2}}=\frac{c}{4 a \dot{b}}$.
$\therefore \quad(a-x)^{2}=\frac{4 a^{2} b}{c}, \quad \therefore a \cdot x= \pm 2 a \sqrt{\frac{b}{c}}$, or $x=a\left(1 \pm 2 \sqrt{\frac{h}{c}}\right)$.
6. Scive $\frac{1+x+x^{2}}{1-x+x^{2}}=\frac{62}{63} \cdot \frac{1+x}{1-x}$.

$$
\begin{array}{ll}
\therefore & \left(1-x^{3}\right)=\frac{62}{63}\left(1+x^{3}\right) \\
\therefore & \frac{1-x^{3}}{1+x^{3}}=\frac{62}{63}, \text { or } 1-\frac{2 x^{3}}{1+x^{3}}=1-\frac{1}{63}
\end{array}
$$

Hence $126 r^{3}=1+x^{3}$, and $x=3$.
7. Solve $\left(\frac{x-a}{x-b}\right)^{3}=\frac{x-2 a+b}{x-2 b+a}$.

Put $x-a=k$, and $x-b=m$, and we have
$\frac{k^{3}}{m^{3}}=\frac{k-(a-b)}{m+(a-b)}=\frac{k-(m-k)}{m+(m-k)}=\frac{2 k-m}{2 m-k}$.
Since $m-k=a-l$. Clearing of fractions and transposing,

$$
2 k m\left(k^{2}-m m^{2}\right)=k^{4}-m^{4},
$$

$\therefore \quad 2 k m=n^{2}-m m^{2}$, and $k^{\prime}-m^{2}$, i.e. $(k+m)(k-m)=0$,
$\therefore \quad k+m=0$, and $\therefore x=\frac{1}{2}(a+b)$.
If we take $l-m=0$ we get $a=b$ which gives no root, since the equation then becomes the identity

$$
(x-a)^{3} \div(x-a)^{3}=(x-a) \div(x-a)
$$

From $2 l: m=k^{3}-m^{2}$ we have by restoring values

$$
\begin{aligned}
& 2(x-a)(x-b)=(x-a)^{2}-(x-b)^{2} \\
& (x-a)^{2}-2(x-a)(x-b)=(x-b)^{2} .
\end{aligned}
$$

Add $(x-b)^{2}$ to both sides and,

$$
\begin{gathered}
\left\{(x-a)-(x-b\}^{2}=2(x-b)^{2}=(b-a)^{2},\right. \\
x-b= \pm \sqrt{2(b-a}, \\
\quad \text { or } \quad x=b \pm v^{\prime}(b-a),
\end{gathered}
$$

which are the other two roots of the cuibic equation
8. Solve $\frac{4 x-17}{x-\frac{1}{4}}+\frac{10 x-13}{2 x-3} \div \frac{8 x-30}{2 x-7}+\frac{5 x-4}{x-1}$.

Divide ench denominator into each numerator, cancel quotients and we laye

$$
-\frac{1}{x-4}+\frac{2}{2 x-3}=-\frac{2}{2 x-7}+\frac{1}{x-1}
$$

Add tho sides separately, and

$$
\frac{-5}{2 x^{2}-11 x+12}=\frac{-5}{2 x^{2}-9 x+7}
$$

$\therefore \quad 2 x^{2}-9 x+7=2 x^{3}-11 x+12$.
$\because \quad 2 x=5$. and $x=2$.
9. Solve $(x+c)(2 x+b+c)^{2}=(x+b)(2 x+a+c)^{2}$. See No. 3. Put $x+a=k, x+b=m, x+c=s$, and we get

$$
k(m+s)^{3}=m(k+s)^{2}
$$

i.e. $\quad k\left(m^{2}+2 m s+s^{2}\right)=m\left(k^{2}+2 k s+s^{2}\right)$. Divido by $k m$
and $m+2 s+\frac{s^{2}}{m}=k+2 s+\frac{s^{2}}{k} \cdot$ Cancel and transpose
and $\quad k-m^{2}=s^{2}(k-m) \div k m . \quad \therefore k-m=0$,
and $\therefore h m=s^{2}$. Restore the values of $k, m$, and $s$,
and $x^{3}+x(a+b)+a b=x^{2}+2 c x+c^{2}$.
$\therefore \quad x=\left(\mathrm{c}^{2}-a b\right) \div(a+b-2 c)$, is before.
Also notice that $\dot{k}-m=0$, gives no root, since in that case $a=b$ and the equation becomes an identity.
10. Solve $\cdot \frac{x+2 y}{3 z}=\frac{z+2 x}{3 y}=\frac{y+2 z}{3 x}=x+y+z$.

$$
\text { Each fraction }=\frac{\text { sum of all numerators }}{\text { sum of all denominators }}=\frac{x+y+z}{x+y+z}=1
$$

$$
\therefore x=y=z=\frac{1}{3} .
$$

## INTERMEDIATE AND THIRD CLASS.—JULY, 1883.

## ARITHMETIC, WITH SOLUTIONS.

1. Add together $\frac{3}{7}$ of $£ 13, \frac{1}{3}$ of $\frac{1}{2 \frac{1}{5}}$ of $\frac{3}{6}$ of $£ 212 \mathrm{~s}$, and $\frac{5}{8}$ of $9 d$.

Reduce $13 s 4 \frac{1}{2} d$ to the decimal of $19 s 6 d$.
(a) 3 of $£ 18=\frac{7}{}$ of $£ 39$. $=£ 0$ 11s 53 d .

$\frac{5}{7}$ of $9 d=\frac{1}{4}$ of 4 Jd .

(b) $13 \frac{4 k}{12} \div 19 \frac{1}{2}=13 \frac{3}{8} \div 19 \frac{1}{2}=107 \div 150=6858+$.
2. Find by Practice the value of 8596 itbs . © $\mathbf{x 1 0} 18 \mathrm{~s} 7 \frac{1}{2} d$ each.

8. A person borrows $\$ 500$ April 10th, and on June 22 nd pays the the debt with $\$ \mathbf{1} 10.20$. At what rate per amum was he charged interest?

Interest for 73 days on $\$ 500=\$ 10.20$.

4. A man having a cortain sum of money to invest has an opportunity of purchasing $7 \%$ stock (1) 05 , but delays until it has risen to 110. What per cent. 18 his iucome less than if he had purchased at the first price:

1st income would have $=8 \mathrm{scm} \div 95 \times 7=7 \mathrm{~s}$.
2nd $4 \quad$ " $=$ sumi $-110 \times 7=10^{7}$ sum.
Difference $=7\left(0^{2}-I_{1}^{2} 0\right)$ sum $=i \frac{1}{2} \times 150$ sum:.
And, $\overline{11}^{21} \times \overline{10}=3^{3}$ of $7^{7}$; but $3{ }_{3}^{3}=133_{1}^{7} \%$.
5. At an international exhibition ono country was awarded 5 gold, 9 silver, aid 11 bronze uedals; and anuther 4 gold, 15 ailver, and 10 bronze. Find a ratio of values for such medals that theso countries may boregarded as equally fortunate:

Wo have 5 goli +9 silver +11 brouze $=4$ gold +15 silvor +10 bronze. Take 4 gold +9 silver +10 bronze from each and 1 gold +1 bronze $=6$ silver.
C. In a box there is a certain number of sovereigna, three times ns many gunems, and tyice as many marks ( 13040 ) as guineas. Totill amount in box $=£ 81 \overline{0}$. How many coins of each kind are thure?
$20 s+3(21 s)+6(13 s 4 d)=163 s$.
$815 \times 20 \div 1(i 3=100=$ number of soveroigns.
$\therefore 300=$ number of guineas, and $600=$ number of marks.
7. Find when first after 0 o'clock tho hour and minuto hands of a clock make an angle of 60 deyrees with eich other.

60 degrees $=f$ of circle $=20$ minutes on faco of clock.
$\therefore$ space to be gained by min. hand $=30$
It gans in min. spices in an hour.

8. For ench of three succeeding months the pupulation of $n$ town rose $50 \%$; and at the end of the third month was 2,700 . What was the population at the begming of the time?
( 3
9. Leap year is omitted once every century, except those centuries whase number is divisible by 4. Whit is the average length of a year 1

In 400 years there will be 97 leap years and 303 con. years.
$\therefore$ arerage length $=(97 \times 366+303 \times 36 i 5) \div 400=3652420$ days. $=360 \mathrm{~d}$ liys $\overline{\mathrm{E}} \mathrm{hrs} .49 \mathrm{~m} .12 \mathrm{sec}$.
10. A cube is furmed of a certuin number of pounds avoirdupois of a substance, and the same number of pounds Troy of the same substance. What proportion will a side of the cubo bear to a side of a cube formed of the same number of pounds as before, but all avoirdupois? ( 17 átbs $\operatorname{Truy}=144 \mathrm{tbs}$ avoirdupois.)

Jst cube cont. No. lbs. Troy + No. lbs. avoir.
i.e. $\quad \ddagger \frac{1}{5}$ bse aruir. + No. lbs. avoir. $=31 ?$ No. avnir.

2nd cubo cont. No. lbs. avoir. + No. los. avoir. $=15 \%$ Nu. avoir.
$\therefore$ Weights i.e. volumes are as 310:350.
$\therefore$ Sides
Or as 6832771:7.047248.

## DALHOUSIE COLLEGE EXAMINATIONS.

JUNIOR MUNRO DURSARY COMPETHION, 1833.

## GEOMETRY,

WITH HiNTs AND solvtions.

1. Enunciate the axiom you employ in proving the main properties of parallel straight lanes; and thereafter prove them.
The principle is Euc. iix. 12 or H. Smith post. 6 . The chief properties of parallel straight lines are those stated in I. 29.
2. "If a straight lino be bisected and produced to any point, the rectangle of the whole line thus prondeed," ete. Complete the enunciation, prove tho proposition, and give its algebratic equivalent, with explanations.

BK. II. prop. 6. For algebraic proof see Putts's Geometry, p. 101. A short proof of this theorem is as fullurs:-

Sq. on $C D=$ sq. on $C B$, the rect. $C B, B D$, the rect. $C B, B D$, and the eq. on B1/ (II. 4;-

But rect. $C B, D B=$ rect. $A C, B D$,
And rect. $(J / B, D B$ with the $s q$ on $B U=$ rect. $C D, D B$ (II. 3).
Also rectangles $A C, B C$ and ( $D, D 1 /=$ rect. $A D, D B(11.1)$.
$\therefore$ Sq. on $(D=s q$. on ( $1 / B$ and rect. $A D, D B$. See Casida School Jocrsal, Novenber, 1879, p. 253, for short proofs of all the proposituons of Book II.
8. On as given straight line describe a segment of a circle containing an angle equal to a givell angle. Buok III. 3.3.
4. If $a$ and $b$ units respectively are the leugths of the adjacent sides of a rectangle, find the area geometrically. Hence also deduce a rule for tinding the area of a trapezuid.
Seo Hamblin Suinth's Geometry, puges 9j, 00 et segg. ; Potts' Genmetry, pige 100.
5. Any chords of a circle are so divided that the rectangles of their segments aro all equal. Find the locus of the points of section of the chords.
See Hamblin Smith's fig. 35, p. 166. Tako $O$, the centre, and join it with the points of intersection $P, Q, R$, etc. It is eassly
shown that $O P=O Q=O R=$ ctc. $\therefore$ The locus is a circle concentrio with the giren circle.
6. Make a right-angled trianglo with its baso equal to $n$ given line and its area cqual to the difference of two given scalene triangles. To be done without the nid of any parallelogram.
Place tho bases of the scaleno triangles in the samu straight line. Let $r$ bo one-half this line. Draw the perp. from each vertex to the base, and from the greiter cut off a part equal to the less. Lut $y=$ the remainiug part. From the extremity of $x$ draw $n$ perp. $=$ 1 , and form the right-angled trinngle, this trinuglo $=$ differance of given tringles. If $x$ be not $=$ the given line, take a point, $p$, in f, or $x$ produced, so as to make it =the given line. Join phad the vertex of the right-angled triangle already described. From the acute angle at its base draw a straight lino parallel to the line joining $p$ and the vertex, and meeting tho perp. or the perp. produced in l.: Join /s and $p$, this is tho hyputemise of the required trianglo. It is easily shown that the part it cuts ofl is edual to the part annexed.
7. $B A C$ is a given angle. The oxtremities of $D E$, a line of given length, aro in $A B$ and $A C$ respectively, while $D E$ is pushed through its possible positions. Find when the uiangle D.t $E$ is $\Omega$ miximum.

The areas of all possible triangles having the same base and vertical anglo will be measured by half the rectanglo of thas base into the sevenal perpendiculars foom the vurtical angles. Therefore the triangle will be a maximum whose perpendicular is greatest. It is easily shown that the perpendenlar which bisects the baso is the gicatest possible, and that in that case the triangle is isoscrics.

## Corresponderc.

## To the liditor of the Canada Sumool Juurnal.

Sin,-Yuu whald vary much ublige me by giving correct answers to the following questions in the next issue of your Jocinal:-(1) Can a teacher compel the trustees of hiss school to put a lock on tho selsool door and on his desk? If so in what way? (2) Can a teacher hold the trustees responsible for any property of his either taken or destroyed through their neglect to furnish suficient lociss for the doors, etc.? (3) Is it unlawful for a teacher to punish a pupil hy striking him anywhere excepting on the hand? (4) is a teacher more liable to be punished lor using a ranhide than any other instrument of punishment in school $?$ ( 5 ) Is it requisite for a ten her to have a ductor's certificato for only a weuk's suckness in order that he can collect his salary in full? (i) Can a teacher collect his satary for any days lost thruagh inclemency of the weather? (7) Is a teacher reģured to stay in school all day with only ono pupil ? (8) If there are no pupils present at nins occock tu commence schuc vith can the teacher close the school for that day? (9) Can the rastees compel it teacher to re-adnit a juph (whore presence is injurious to the school) after he has been suspended, withont the approbation of tho teacher? As I camut find sallsfactory answers to these questions in the School Act, and seoing sume queries made by teachers minl others in your Jounala, I thhe tho hiberty of asking you for answers to these as far as pussible. And by so doing you will confer a preat favor on one of your subscribers.

Arnott, Feb. 18, 1884.
I have the honor to be, etc.,

## neplizs.

(1) No; hut if he has any tact ho can easily get all he wants without compulsion. (2) Nu. (i) No; but the teacher who resorts to indiscriminate beating deserves to be fined. (4) Yus; if the teacher got a taste of the rawhide himself now and then ho vould soon see the inhmmanity of using it. A suft strap, two inches wide and eighteen inches long, is the only mastrument illowable, and the strokea should be on the hand and on the hand alone, and they should bo comated whenerer it is necessary to use the strap. The teacher who uscs a rawhide has no case betore a magistrate. (5) Yes. (6) Yes. (7) Yos; if the trustees insist ou it, but surely very few trustees would be so absurd. (8) Wo should say the teacher should wait fir half or threc-quarters of an hour before closing tho school. (D) The teacher can only suspend a pupil, he cannot expel without the consent of the Buard. If the Buard dues not concont ho munt ndmit the pupil. But he may agnin suspend the pupil for a detinte time it has conduct dons nut improve. We should say that a month would be about the extreme limit of a teacher's power of suspension. It is highly desirable for the Buard and the teacher to act in harmony in all cases of disciplino.

## Surcial Alticles.

## READING AND ELOCUTION.

BY C. TURNER, C.M., LONDON, ONT.
The subject of this article is one that no teacher can afford to neglect, but which, nevertholess, has failed to command the attontion it deserves.

Every ono likes to hear good reading. Still, it cannot be denied, I think, that there are few really good readors amongst us. Many people, otherwise well educated, aro sadly deficient in this respect. And uren of those who claim to be the instructors of our adult population, such ns ministers and lecturers, but fow are able to read well even their own compositions, much less those of othernuthors. Indeed, tho art of reading is sadly neglected in many of our universities, English public schools, and other sents of learning-so that While students may bo eager onough to qualify for Matriculation, for Honors, for Fellowships, for Degrees, and uthor distinctions, the great mijority of them take littlo or no pains to fit themselves for reading in public. If they can read for study; read a fasorite author for pastime ; read the daily papers ; read the current litera. ture of the day as found in magazines and reviews, it is too often considered a sufficient accomplishment. Mathematics, Physical Science, Music, Drawing, Authorship, have their votaries, but the art of correctly, forcibly, and attractively rendering one's own thoughts, or 'the thoughts of others, is so seldom pursued for its own salio, that we aro forced to the conclusion, -either that the public do not requiro goud readers to entertain them, or readers themselves fail to see the importance of reading and recitation as an art. It is, therefore, tho exception, and a very rare one, to the general run of readers, when wo listen to the captivating eloquence and soul-stirring deliverances of a Macready, a Dickens, a Montgomery, or a Bellew. Thanks to the freedom of the Press, and the spread of education, wo have, in both Hemispheres, many eminent scholars, scientists, artists, and divines, but the proportion, I repeat, of really good readers is lamentably small. Yet the school curriculum docs nut exist, I presume, in these days in which reading is not included as a part, and may bo, an important part. I havo examined tho timo tables and schedules of studies in many schouls on both sides of the Atlantic, and have not yet met with any that excluded reading; still the fact remains, that reading is heard, but certainly not tanght in many of our schools as it should be.
Su far, my remarks have had referoncerather to the higher, and, as we sily, better educated classes. Hero wo find culture, refinement, good breeding, and in short, the lighest and purest forms of civilization. Is the charge of general deficiency in the power of good reading equally true of the lower orders of society? I believe it is. Speaking from my own experience $I$ do not remember a single school in which reading was taught as a speciulty. That is to say, there is not within my own recollection any school-night school, day school, privato school, public school, college, or unirarsity, where reading recoivel the same share of attention as mathe $\cdots$ ties, or arts, and sciences. Surely, you will say, this is a grave charge to make, -so I grant it is, nor is it ill founded, for, as I have said, I have carefully compared the results presented in Blue Books, Inspectors' Reports, Prize Lists, and other means of reforence-such, in fact, as are open to any one of us ; and I am driven therefore to the inevitable conclusion, that, though the public are now-a-days gueat readers, they are not by any means what may be called good readers. They read much it is true, of both goou and bad literature, but most of it is dune mentally. Very few of us care to read aloud, cither alone or in conzpany. Hence public reading is too often cut of the question.

My friends, is this as it should bo? Buth the English Government and the Canadian Government, and also that of the United States have done much toward remedying the evil I complain of, by providing Programmes of Instruction, in which reading is made to take an important part in every day's routine. The decree has gone forth-Every child niust bo educated and every child must rcud; and so important has reading been considered as an element in our school curriculum at home, that of the "three R's,".an they are called,-Reading, Writing and Arithmetic,-reading has, for many years, boen allowed to stand at the hearl of these elementary subjects. The Committes of Council on Education in Great Brituin, has, through its respousible mmister, the Vice President, so altered what we call Art. 28 from time to time, that reading, like other subjects, has been made more and morea test of the efficiency of a school-and wisely so, for, if children cannut read well, what progress can they be expected to mako with the graminars, geographies, and other text books which are put into their hands? So that, if children are not now taught to read well, it is clearly not from any anatlingness on the part of your Government or ours. We have Governmental and Departmental sanction and prescription anough, and to spare, I might almost way ; yet I fall back on my original statement, and I say advisedly, our people, as a rule, are not good readers.
The question then arises-What is it that constitutes good reading? I will try to answer this as briefly and clearly as may be, and then proceed to enquire into the causes of this wide-spread fault in our educational system.
I confess I feel some little diffidence in finding fault with the way in which an important branch of school work is accomplished, and I trust I may be pardoned if I say anything at all calculated to discourage any of our number in the great and arduous labor in which we are all more or less engaged, but Holy Writ has declared, "Faithful are the wounds of a iriend," and it is as a friend and adviser I wish to be considered. It is perhaps easier to say what good reading is not than what it is. For example,-it is not merely the correct pronunciation of the words, or a scrupulous attention to stops, or even n due regard to the laws of emphasis and accent; it is not the rato-now fast, now slow-of delivery, as the case requires ; it is not the mere utterance of so many words in parrotlike fashion,-it is all these and more. A person's reading may be highly satisfuctory in all these respects so as to please the mont fastidious listener who requires nothing further, but good reading it cannot be called, for it lacks the soul, the fire, the nerrous energy, the enthusiasm which catches the author's spirit, and, sympethizing with the listener, speaks from heart to heart. There is something in the kindling eyc, the earnest tone, the spirited gesture of such a reader which chains the attention, and enlists the warmest emutions of the listener which is simply irresistible.
It is something more than "reading with expression" that w6 want. How is it that certain public speakers, lecturors, preachers, and others are called "eloquent"? Just becaust, in their addresses they have the power of working upon the feelings and persuading the minds of their audiences. It is nut only that they are fluent and distinct and polished. Such a speaker invests the subject in hand with a halo of glory, so that the enthusiasm which is his has become yours and you lose sight of the man in the commanding flow oi words and burning sentiment. There is, to my mind, no greater intellectual treat than to listen spell-bound to the fervid utterances of a really eloquent speaker. And Elocttion is eloquent reading or recitation. There is the same charm in the one as in the other. Why is it that penple, the most illiterate, as well as the highly educated, take so much delight in listening to plays, operan, and the like? It is not only the scenory, the dressen, the müsic,
and no forth of the actors, but becauso we see the genius of the author as it were reproduced, we see the action suited to the word, we listen to men and women who, having studied their part, and grasped its spirit, know how to impress it upon their audiences. An actor makes that seem real which is only apparont to the ordinary observer of the printed page, who only sces tho words, but deres not discern the soul that divells in them. On the stage we have elocution in its most cultivated forms, but I see no reason why good reading, expressive reading, polished reading, eloquent reading, should be confined to the stinge.

I can never forget the thrilling pathos and fiery enthusiasm which a former pupil of mine used to throw into his reading. His rendering before the whole school of such pieces as Byron's "Waterloo" has many a time chilled my blood, as, with the onward sweep of his eloquence, he has carried us in spirit to that bloody field, there to behold "rider and horse, heaped and slain in one red burial blunt." While listening I lost sight of the boy and his name in what he wus saying. So too, have I listened to the impussioned delivery of the late Rov. Morley Yunshon, whou some of your readers may remember having heard in this country. His atyle of reciting the "Lays of Aucient Rome" was a treat nover to be forgotten. His graphic rendering of the immortal lines describing how "in the brave days of old" the Ruman heroes defented the bridge, was such that you could sue the characters, the scenes, and the thrilling incidents of the struggle. I have said enough, however, to show that to be a truly effective reader, one must bo per. fectly natural-the reader must throw himself, heart and soul into his subject ; and, wther things being equal, his succoss is cortain.

I do not, however, forget that it is not adults we instruct, but childres. We cannot therefore be expected to produce results like these. Neither, perhaps, 18 it desirable that our boys and girls should be trained to be actors and actresses. The public do not expect it, nor is it practicable, if they did. The fitful attundance of many schulars, the lucapacity of some, and the indifference of others, are all aganinst us however much we may atrive to accomplish great things, and $I$, for one, do not claim to have made any discovery of what might be doue under more favorable circumstances. We must be content to take things as they are and make the best of them. All I contend for is, that, under existing circumstances our youth should be so instructed in the art of reading as at once to increase their general intelligence, and to cultivate their powers to the fullest extent. Is this reasonable, or is it Utopian? Is it not pussible to produce better readers with the materials and means at our comaand? Is it enough for a boy to read or recite ~ the "Charge of the Light Brigade" pretty much as a parrot might be taught to say it ? Cannot a child be trained to read" Excelsior" or "Evangelue," "The May Queen," or an extract from Dickens or some other popular author in something of the style that would please the writer himself could he be present to listen? For my part, I believe it 3s. I have myself heard boys of some twelve or thirteen summers recite tho "Evidence of Sam Weller," "The Conjuga ing Dutchman," "The Spanish Champion," an adventure at the "Natural Bridge of Virginia," and other selections, both grave and gay, in a manner which left little to be desired. Evidently, then, it can be done, and when doue is always found to be productive of both pleasure and profit to all concerned. It only remains for me now to proceed to enquire inta the drawbacks in our educational system which prevent us from accomplishing as much as we could wish in this mattor. These are not far to seek:-
I have said this is an age of readers. It may also be fitly called the Examination age. This is a factor not to be lost sight of, for now, mure than ever, requirements are being constantly increased, so that what children knew formerly is a vory amall portion of what
they must now acquire. Their knowledge is tested and sifted so that little time is left for the due cultivation of reading as it should bo. They must write, spell, compose, cast up accuunts, and so forth, -all with a viow of helping them to carn their livelihoud. As for rehding, an errand boy, a clerk, a boy behind the counter, need not be very proficient in the art. On the other nide of the Athuntio the demand is for technical instruction; here, it seoms to be for a business education; so that, provided a buy is expert in figuren, and holds "the pen of a ready writer," he is in most cases considered qualified for any ordinary employment, as shop-boy, errand. boy, team-driver, or clerk. If his living depended on his reading powers, wo may be sure he would not neglect the reading leuson any more than lis daily bread. But the demand is not so much for readers, as for gnod writers and ready reckoners. Hence, much of the apathy I have complained of.

Then again, the rango of subjects is so wide that but little chance is given for the thorough training good readers reguire. Two hours a day in the higher, and an hour and a half in the lower, is the very least that should be devoted to this subject, in order that evory boy and girl may have individual opportunity given for practice. I am persuaded that less than this will not suffice to bring our children up to the standard of excellence I have marked out. Under the present regime can this be allowed? I fuar not.. All teachers will bear me out when I say, that to give a reading leason propelly requires no little patience and forbearance. I say properly, for of cuirse time was, when teachers were content to lister without any attempt at correcting the mistakes of their pupils. But that day has gone by, -the teacher must now be evor on the alert. He cannot afford now to be merely passive,-simply the "figure head " of his oliss. He must be quick to hear, careful to point out ermra, and firm in requiriug the repetition by every child in the class, if need be, of the sanie sentence or passage, until it be done to his entire satisfaction. All this takes time. It may be a slow process, but it is thorough, and thoroughness pays in the end.

When the lesson is mastered in detail, it is a good plan to call upon one or more to stand out in front of the class, and read the lesson or portion of the lesson through-the class meanwhile being required to take note of the reader's attitude, lus pronunciation, modulation of voice, and attention to stops. The class is thus actively engaged in listening critically. A little judicious questioning at the end will serve to bring out the faults, if ang. Of course in the lower classes, where the elements are being taught, these remarks do not apply. But in erery class a safe rule is-"little and well." You know the amount of time allotted for the lesson; let part of it be taken up by illustration on the blackboard, by explanation of words and phrases, so that the children get an intelligent notion of the subject matter. Tu read with expression, a child must first understand what he reads, and in order to do this, no lesson should be giren without the aid of chalk and bluckboard; *o that the class may be taught through the eye, as well as the ear.

I have now pointed out a few of the drawbacks in our educational system ; I have shown, yery imperfectly it may be, what good reading is, and the causes why good readera are so scarce; I have also ventured to suggest a few hints for the proper treatnient of a reading lesson, and if I have in any measure succeeded in throwing out a new idea or contributed anything that may be of service, I shall feel myself amply_rewarded for my pains.
The teacher's work is often described as noble. It is also ardunus and toilsons. If, however, we esch act on Solomon's principle of doing everything with "all our might," not merely because our work is to be tested by inspection, but because we are doing what in us lies towards the enlightenment of the riaing generation, we shall surely succeed. "In all labor there is protit." We miy nut live to E 09 the full effects of our labor, but at least let it be naid of each of us-" He hath done what he could."

## THE WORLD'S CHEMICAL CONGRESS.

Somewhat more than a century ago the chemical elements determinod to organize themselves into an association, the better to bocome thoroughly nequainted with each other as well as keep abreast of the times, especially in their own department. They could not but recognize and deplore the fact, they said, that seldom without the intervention of man could thoy be brought together, and when this was the case it was nut always possible to preserve the most amicable relations. They determined, thereforo, without further delay, to establish a new and better order of things, and for this purpose a general meeting of all the chemicals was immediately summoned. The assembly was to convene at the library of Dalhousie College, Halifax, N.S. ; and I, as representative of the Practical Chemistry Class, was cordially invited to be present.

A few minutes before the hour, what a surious spectacle I witnessed ! Oxygen, a middle-aged, portly-looking gentleman, entered the room. He was walking at a pretty lively rate and looked es if on very good terms with himself and all the world. Hydrogen, a young gentleman, next stepped along very lightly. Nitrogen anon fullowed, quite alone and apparently wishing to monopolize attention. I am told this is his usual habit; he seems to have no associates who really care for him, as it is their belief there is nothing in the man. His qualities are nut promising, although he has an interesting family of five who follow closely behind. A word about one or two of thesemay not be out of place. The eldest is not of much nccount-like his father exactly. The second is, however, a livoly chap and full of innocent fun. He is always laughing, and never happier than when he keeps others in a roar. The next two are not so well liked. (One of them, Hypunitric Acid, may be known by his ruddy color.) But the youngest is the best of all the bo,s. He is extremely useful and unflinching in the cause of right. There is not ono of the richest or proudest of the metals-the very chemical elite in fact-with whont he will not come in contact if necessary, and will even attack the aristocratic Lord Gold himself, on which occasions, with a little help from his friendly neighbor Hydrochloric Acid, he has been known repentedly to make his enemy disappear before you could say Jack Robinson.

And so they sevorally came along; it would weary you to tell all that was seen that day. Mrs. Carbon, an old lady with a large diamond ring on her finger, now hobbled up with the aid of a stick. Her two daughters accompanied her, Carhonic Oxide and Carbonic Acid, each in a blue dress of the latest fashion. In many respects these sisters resemble each other; they are both desperate firts, and with their dancing o eps dazzlo many a poor man to destruction. The youngeat, espacially, has been the death of many by her treacherous arts.

The netals of whom mention has been made walked, I notice, pretty much by thenselves, ${ }^{-}$though they sometimes tried to edge closely to Mr. Oxygen, who, quieting each with his usual affability, seemed willing, if possible, to divide himself up among his friends.

But I must hurry on. The meeting, when some forty or fifty persons had arrived, was called to order. Oxygen, owing probably to his important standing in, the community, was unanimously voted the chair. One crusty old fellow, Fluorine, seemed to disagree with this and did, it is true, move in amendment Hydrogen, which Squire Alcohol (or Spirits of Wine, Esg., as he preferred to be called,) seconded, hul as he was partly in liquor this motion was not put. Tluss were these two quietly overruled, the antipathy of each to Oxygen being notorious. Hydrofluoric Acid was made Secretary - he could (sk)etch and write pretty well, making use of a wax tablet that he pulled from his pocket; he performed hiawork as neatly as you or I could probably have done on paper. Iron
was Treasurer. This position of trust he received, being a very useful percon, a tenacious frienu, and one to be depended upon a+ all times. No show or boasting nbout old Iron! Yet how could any one do without him? It being thought advisable to appoint a policeman, Mr. Silver was proposed, but some one fearing that, like his confrcies, he might be rarely seen when wanted, and he himself declining the office, Lead acted instead, it being known that he could come down pretty heavy at times, as also lis ability to run well might be of service. On a general committee served Chlorine, Potasaium, Zinc, Tin, and a few others whose namom I didn't hear.
The following constitution was then adopted, additions to be made by a two-third vote of members :-

1. This metting shall be calle $i$ the "World's Chemical Congress."
2. Its object shall be to benefit science and promote kindly feeling among ourselves.
3. A Convention shall be summoned, to take place once in a century (hereafter on the anniversary of the birth of our csteemed chairman), in the city that shall, during that time, do most to advance the cause of science.
4. Convention to meet alternately with closed doors. When the public accept ous invitation to be present, they will be expected, individually or through delegations, to respond willingly and at once to nny suggestion that we, ns a body politic, may, for the good of the whole, propose.
(Here, I confess, I thtered a sound, for I could not help wondering what work in this direction might even now be assigned me.)
The chairman then rose and addressed the meeting. He thanked them for the honor done him, said that he was glad to see su many present, especially from among the younger members, as also some that lived, as many knew, at a great distance. He was quito awaro it must have been difficult to .1 many to have put in appearance on so short notice, and the fact that they had done so argued well for the future interest they would take in the cause. He urged them all to proclaim boldly their (chemical) principles everywhere; they were members of a great and glorious Brotherhood, though in its comparative infancy ; one that had in fact often rent the globe(hore a whole host of young combustibles, led by the Sulphides and Chlorates, started involuntarily to their feet)-and one that, with their united force, or even that of one alone, could wholly destroy it-(here Nitro-glycerine, taking the compliment to himself, so loudly applauded and gave such signs of excitement, that he had to be publicly reprimanded by the policeman, who, knowing him to be a dangerous and notorions personage, threatened to lecul him into "durance vile" if he couldn't keep quiet. This for a time made him subside). Mr. Hydrogen, the Government M.P., was then called upon to speak. He alluded to the friendly relations that subsiated between the chairman and himself. They never ("well, hardly ever") clashed, but had always united fur the promotion of the public weal. (Hear!) Did a city require water for drinking purposes? It was they that had laid their heads together until the refreshing fluid flowed in abundance. Had artificial light been required 1 Again they had done what they could to assist. It was by his almost unaided efforts (he mentioned this modestly) that for years the reronaut had been enabled to cleave the atmosphere, and he could adduce other instances to prove his use to the community were it necessary. In conclusion, he would earnestly beg each member present to make it a point of doing at least some one thing by which his fellows might be benefited. During the cheering which followed the door suddenly opened, and Drs. Antimony and Arsenic entered. These gentlemen were woll-known physicians, of great celebrity. They expressed their regrets at not being able to have been present at the hour named, as they had been detained by a bed poisoning case that liad just happened in Parin, (at this thoir
palefaced assistant White, of Eyg. lunked whiter than usual, probably in recollection of the late sad aceident, and even Litanus changed color.) Thereupon the Chairman sugisested the propriety of a specimen shetel of testing for poisons being given, with diasrans. to which the surgeons kudly assented; and in a short time made the matter so plain that one or two youn; rascals pesent were heard to wish that some one might be found to experment upen. Qucksilver, on hearmir this, testified his willurgess to procure at fit and proper person, having had experience in the like before, and being nimble-forted, begata at once to ruh. This wats going too far, and the mecting was :"gan called to order.
To vary procedings, a sung was mow called for. Hydrugen wislingly responded."and by the aid of instrmments and appliances of glass succeeded in a few monents in mating at succession of agreeable somels which were generally well received, though a few young ladies affected to be very much amused. Lord (Guld asked permis. sion to introluce a young fromd of lus, whel request having been granted by the committee on introductions, Thalliam, a young marquis who had spent his life abroad, wis presented to the audience and requested to favor the meeting. On rising His Excellency asid, inter alia, that he never remembered being in this comerry before, but on the occasion of this visit he was so prepossessed in its faver that he hoped that he should be able to spend much of his time in it in future. His Excellency was therefore heartily applaud. ed and cordially welenmed to the platform.
The Congress was not without its laughable incidents too. I remember noticing particularly a young man, who looked as if the couldn't keep still a moment. He was wonderfully excited. Occupying. perhaps the caldest part of the room, he yet seemed to comphain everlastingly of the heat, and if he heard the slightest thing that differed from his own sentiments he fared up till actually I thought he would fire with rage. What a very juflammable young gentleman he was! All at once he subdemly disappeared, amid thee laughter of the greater part of the audience. It seems that in one of his caperings he had gone pretty well hack upon the window sal! where he had been sitting. Some one il believe it was that maschicrous roguc old Nitrogen) had shly given him a little push, tipped him over, and here he was coolng hamself in the large water butt just outside of the wridors. No one seemed sorry, nor did any one run to his sissstance, all no doutht feelang that he was now in a rery saie phace Overhearme two brother metals talkine of him, I learned that his nume was Phosphorus, a relation of Farmer Phosphate, of Phosphite Granser, and that whera the.fit was on him he was a most dangerous charieter.

The entertainment coramitter now stepped formard and said they wauld be lappy to show the meabors a iew experments. Thas was well received, thoush Magnesum, a lad of ahnot zen years, was bold emongh tu say, "olnly we me a chance and I'll do as much m this way as the "hune of you "" Aluminium, an lrishanan, racily muttered. "Schist (just wat till I come forward." Major Xitrate, of Strontian, and Cabonel Crucible did mest of the superintendence and exhibited beantifully colored fames and pectormed a aumber of interesting tricks with lharahh serpents, firewarhs, dec. Whate betreen times they rerited songs and tohd laushable incidente. Many a fair check blanched and grew pale as the gatlant colonel related aneedotes of tho war and the fire that he was often called upon to stand. Mineral Chameleon wis aiso madiced to act has part, Thich he did in his usual hoppy way and mith has customary succces.

The inrestigation cotamitteo here reported that application in join the Congress had been sotuht by the orsanic elements. This body set forth that they were virtu.dly of the same stock as the other, though differmg in gome thugs and often separated, and oul the principle of unan leing atreugh they felt they could tre much more effective if united. They comended that at mazural benefit might in this may be expected to result. The document was of cousiderable length and duly sumed in proper form, Dowager Starch, Lady Chlorvorm, Mra Ether, and Miss Acetic Acid (a se)ur
old mainl; hend:ag tho list. Revis. Drs. Gluense and Glycereno, and Revis. Messrs. Chloral and Morphine had alsos sigued their names. It was decided to grant the reguest and admit then alltheir sisters and their cousas and their annts, a momerous fraternity, and wilh a decided simitarity in mame-with the exception of Strychthine, Prussic and Oxatic Acids. The furmer wiss a butehor, a cow.ordly cruel fellow; the other two ill-fated wretehes, aceordmy to the statements on oath of Des. Amalysis and Mi:ruseope, phrenwhogists of ahont sixty years, and who, from long expertence and close observation conta test pretty well. Furilier, it was shown that pohateally they were rabid Nihnlests, winhms nothing to exist and alwiys trying to destruy human organizations.
Old Mr. Copper, a shipbuiker here roce and said that as the - vening was pretty well :advancen, he wonld respec fully move that the wther members be requested to be prepared to do theit part ly way of entertamment at next meeting, ymun Nickei, a jeweler, seconding the motion, wheh was at once car riod. Names being solicited, Hon. Bismuth, M.P., on ohl member vulanteered a speech; Calcim to perform a viricty of sublume eaperiments; Lenyer Blowpipe, in a pufly, vigorons style, promised to exhabt the lutest improvements in iglass blewing ; Sinlium and Potassiam. cach an essay, prefaced by ashort hiogr.phical sketch, while the useful and witty Sodium Chlurido volunteered at composition of his own which he had carefully prepared. Ammoninam mumbled something, it was hard to how what. but as he lived in dissipation it was thought hest not to depend on him. Among the ladies, Mrs. Cobalt promised to exhibit some curious specimens of writing, and Miss Chromium her choice collection of pantinus. A debate by four or five of the younger members was also provided fur.
Arramements, too, were made for the celebrated artist, Nitrato of Silver, to be present at the next seesion and photograph the congress at its early sittiug.
The Secretary read an apolosy for absonce irom Eur Platinum, than whom none has greater weinht and importance. The Earl telegraphing fr m South America, begged to furward lis best wishes for the interests of their canse.
Sheriff Sulphur in a flowery speech proposed, and Farmer Silicion (a Grit) seconded, that the thanks of the meeting be tendered to the following yarties:

1. The editor of the Chemical $\mathrm{H}^{\circ}$ orll for his gratuitous services.
2. The several travelling companies for therr favors. heing especially srateful that Judess Nitrosen-Terchloride and Fulmunite of Merenty; buth of them shaky old gentlenmes of a pecularly chaleric temper, had been carried along in safert, and
3. Mr. Oxygen, for the genial and able manner in which he has discharged througheut the duties of the chair.
I aced not tell you that these motions fiassed unamimously.
The chairman in rising, according to custom, to make the furewell speech, said ho begged to thank the meeting fur the contidence they had reposed in him, as well as fur their cordial vote of thanks. He testified to the good order and harmmious feclung that had prevailed throughout (hear!), thoughaf few yonremulecules and atoms had run alomita little, ono or twon surly chays, an Chinrine. Bromine, Phusphoretted Hydrozen, and Hydrusulphuric Acm, had with their nasal dasagrewibleness endeavored mure than once to m terrupt proceedings in their own pecularly offensive manaer. Ho begoed that the conduct of the last hinwever more eapecially might be overhooked, as he was the most usciul and manoriant working agent the society had.
In cunclusuon, he stated that they rould be asked to mect again (D.V.) a century hence, place and time to ho definitely stited limough the pablication commitice at a later d.te. After siuging turether the national anthem, dedicated to their patroness. the Goddess of Science, the members quictly and andly dispersed. I rearet not being able to give all the words of the hyme. I comil only catch a fer limes, Red Oxide of Mercury neariy precipitatang me to tho ground in his haste to got atr.ey, and my thoughts being with thoso who had been my companions, but who eve:2 now were ripidly departing. Perhaps by next session, in the year uf grace 10-, sumo other friend of science may be more fortmate and be able to furnish the worh with the cunnlete anthem. The lame I remember soncthing like these:-

> May rach in nilior cirr prove trac.
> Doall the fond chas: lie enst do,

$$
\begin{aligned}
& \text { l'rove God azd sricuce cict onc." }
\end{aligned}
$$

Jain., 1300.
A W. Herdmat.

## NOTES OF TALKS ON TEACHING.*

## rending. - ruonics.

I propere to speak today of the use of the spoken word in assisting acts of association between the idea and the written worl. It is very often urged that the spuken word is sumiciont to recall its appropriate idea, and thereby bring about an act of association between it and the written word. That. as the ideas are already in the mind of the child. the spoken word aldone is nceded to recall them. Those who hold to this ductrine fail to moderstand the great econnmy of ment.il action that is brought about hy the stimulus of the oliject. Were I to toach you a foreign danenage, Gemnan, for inatance, how much quicker and easier you would learn the words if I were to present the ohjects and sneak or write their names. This is thorounhly understond to-day by the hest teachers of modern ianguayes. If we alults can learn a foreign language so much casier by the ohject methom, it can he readily inferred how necessary the use of ohjecta is to the little chihl. When the old habit of learning spoken words is carried wer into the learning of written words, that is, after a hundred or more words have heen learned, probably the spokien word will then be sufficient to bring about the required acts of associ.tion. When a child does not need the stimulus of objects, pictures, etc., then their use should cease. Any good teacher will not fail to observe when this time enmes to the child. The spoken word, then, aids in recalling the idea, and at the same time names the written word. The spokien word is associated with the written word, sn that it recalls the written, and the written recalls the spoken. Deaf mutes learn the written words withont the intermediate help of spoken words, and it is found that with the use of oljects these unfortumate beings learn mritten words with as much, if not greater, rapidity than the children who have perfect hearing. Notrithstanding this fact, the apoken word has a use in learning to read, but it may be badly misused. For instance, when it is associated with the written word alone, and the written word is not associated rith the idea. In this case, the reading is not the gettiser of thought, and, therefurs, not real reading, but simply mechanical word pronouncing without the slightest inspimation fron the thought. There are methods of teaching reading, whose sole aim is to train children to pronounce words with little or no regard to the thought. To the casual observer the results seem surprisina. To the real teacher they are the somnding of empty mords. The use of the spoken word, then, in teaching reading, must be to ansist in acts of asenciation. Touse them for any other purpose is a hin. drance in leaming to read. The question, then, is, Fow can spoken words be used to help assncintive acts? Tho spoken words hare been acquired by the child before he enters schoml. He knows hour to make cvery sound in the languaze, amil to combino them in pronouncing all the w rds he knows. He has learned the spoken words an whales, and is not conscions of tho elementary parts of a mord, although le can combune them withont the alightest hesitation. The spoken roord consists of tho articulation of one elementary sound or a succession of elementary sounds. An elementary sound, mith the exception of the sound of $h$, renuircs for its articulation a certan fixed position of the rocal organs. Change the prosition of the voal organk, no matter how slightly, and tho suand must change. Between a few combinations of two sounds th:e articula. tion mutinues, producing reculiar modifications of sound brought about by carious positions of the vocal organs that they must take in changing ferm the pmsition required by one sound to that of another. If, humever, these ghdes were inado between each and all of any combinations of the sounds of the language, the intermediate

sounds would be innumernble. As it is, forty sonnds are all that are givep in making the spoken words of the Fncrlish language.' In changing, then, from the position of the rocil organa required to mike one sound, to that of another, thero must bs, except in glides, an actual suspension of sound. In proncuncing ordinarily, these pauses betmeen sounds are too short to be perceptible to tho ear. Mako these pauses perceptible. and we do. what I think is wrongly termed, spell hy sound. As phonic analysis has mothing whatever to do with spelling, is oftentimes a hindrance rathor than a help to English spelling, I prefer to call the act of articulating each sound with a perceptible suspension of the voice between two soundsslow pronunciation, following the German term-lanaxcomer anksprache. Now, it should be borno in mind, that in reality the spoken words alone aro pronounced slowly, the written words cannot be. It is a mistake to any that certain letters have several sounds, several sounds are represented by one letter. The process by which a word is made to recall a spuken wort. or a letter is mado to recall a sound, is exactly the same as that by which tho written word recalls the idea-vin., the process of associatios. Whun the first word is learned, the spoken word is associated with tho written word. The apoken word and written word are learned as wholes. I hare tried to show that tho written word is fixed in the mind by writing it. That when one word, for instance, rat, is tanght and written, the word cat can be more easily seen and more easily copied; for the word cat contains two thirds of the forms of the prerious word. In this way we see thit as the different forms are impressed upon the mind, the repulsion of the word, or the difficulty in grasping it is overcome, and successivo associations maio ansy. In the same way the spoken word may be associated with the written words, so that the written words will recall tho spoken with greater ease. As the written words become moro clear in tho mind, the seprate parts of the written word may be associated with the separate articulate soundm. so that the difficulties in the acts of association may become less and less; that is, new words may bo pronounced and known at sight. The great danger is, that children nay be trained to the skilful pronunciation of words without knowing them. A word is only linuwn when it recalls iss appropriate idea.

There are tro great obstacles in the way of tho successful teaching of the sn-cilled phonic analysis. One is moro npparent than real, and that is, the fact that different sounds are rupresented by the samo letter in tho English language. In a purely phonetic language (which, by the way, does not exist), cach sound is repreented invariably by one character. If the English language were phonetic, it would greatly lighten the burden of learning to read and write. But a carcful examination of tho words leamed by a child will thow that the difficulties aro not so great ss they are often represented to be. If we begiu, for instance. with tho short sorands, a child may learn at least two hundred words that are purely phonetic to lim. I have calculated and classified the mords in thirty-mino pages of the New Franklin Primer, in the while of Monme's Charts, and in the first forty piges of my Supplementary Realer, First Book. There a 4.5 fi words in all ; 205 of which are purely phonotic, 216 are worls Whose pronunciation is indicated by their form ; and only the 35 remaining may be called entirely unplonnctic After a child learns this number of words ho inas formed a fixed habit of learning new rurds, and all actire use of primary methods may ceasc. What, then, is tho use of burdening the child with mangled and twisted print ordiacritical marks? Phonics may He used as a great help in teaching primary reading, if the natural growith of thu child's power is carefully fullumed.

The sccond difficulty in teaching phonics is found in the apparent opposition of the word and phosic method. The word must. be loarned as a wholo, and any ourly attempt at word $x$ alyais aimply
retards the teaching. The struggle to analyze a new word, or to build it up from parts, as I have already explained, absorbs the attention and prevonts the act of association. These two methods, that seem to be in direct opposition to each other, may be entirely reconciled by closely following well-known mental haws. The child, as Thavo said, knows how to make all the sounds in the language in their word combinations. He is not conscinus of a singlo separate element. Obviously, the first step, to be taken is, to bring these elements slowly to his conscionaness. This may be done by training the child to pronounce words slowly (spell by sound). I have found hy repeated experiments that the little cluld whl uaderstand me when I pronounce words siowly in a natural manner, nearly as well as when I pronounce in the ordinary way. The child may be trained by imitation to prononnce slowly with great readiness and shill. This should be carefully done beforo any direct associntion is made between articulate sounds and the word that represents them.
One of the greatest actirities of the mind is the coming together of liko to like. It may be called the law of analogies. It begins, as all good things do, in perfect unconsciousness on the part of the child, When a child says, "I seed," fur I saw, and "I goed." for I went, the child is unconsciously fullowing this law of amalogies. The same lar is in operation when the child spells all words phonetically, withont regard to the absurdities of English spelling. Using phonics, in teaching reading. in the proper wat, simply in. tensifies this law. If the word method were usedi. pure and simple, the child's unconscious mental activity would seek out and nse the analogies of the languace, in associating new written words with the same sounds he has learned to associate with them. When ne teach words in planic order. as. for example, rat, fat, cat, mat, sat pat, this late of like coming to like in the mind is made more effectire. But when at the proper time the articulate sounds are conscinusly annociated with the letters that represent them, we use this mental activity in the most econminical war. Gireat care. howerer. should he taken not to force the gromth of this mental action so as to conflict with the other and more impurtant law of learning words as wholes. These whole words cannot be analyed until they are
 giren thus: First, train the child to recoquize woris when pro. nounced slowly. This mar he casily done, if the teacher pronnumes slowls in easy. matural tones. The ureateat ohstacie that 1 have found in phonics is the imability of teaclicra to do this. Second. train the child to pronnunce slowly he imitating the tearher's roice. All this should be done, as $T$ have said, hefore any direct association of articulate somels is made rith rritten reards. Third, after a fer words are taught, let the teacher in writing words give earh articulate sound as shemakes the character that reneresents it. Do not require the children to imitate the tracher until they do so of their nwn acenrd. Fourth, lave the children hegin to pronomer slomly, without even a auggeation from the teacher, the words which she rrites Phonics may be thereafter used with great effect in teaching reading. Thus, you will obserre, that by this process the spoken word retains its unity as long as it is neccasary, and the way is carefully prepared for the conscious analysis of wrords when the proper time comes. This will be indicated by the child's own spontancous action.

All new words. then, that come within the child's acquired analogies of sound may te readily associated with their appropriato idea with little or no aid from the teacher. Give the child the power to help himself as soon as possible, and at the same time please remem. ber not to violate ang known laws of his mental growth.

He who is the mort кlow in making a promise is the most faithfal th the performance of it-Rosseau.

## Examination faycrs.

## UNIVERSITY OF MANITOBA.

## PREVIOUS EXAMINATION, MAY, 1883.

Examiners:-T. C. L. Armstrong, M. A., LL. B. ; Rov. 0. Fortin, 13.A. ; Rev. Prof. R. Meiloche.

## MACBETH.

1. State what ynu know of the history of Shakespeare's Macbeth, with dates.
2. Give proofs from the play itself that it is one of the poet's later productions.
3. What use does Shakespenre make in his plays of (a) irregular metres, (b) rhyme, (c, prose ? Quote instances from Macbeth in proof of your views.
4. Scan the following lines, and paraphraso extract (d) :
(a) Ban. "As far, my lord, as will fill up the time 'Twixt this and supper ; go not my horse the better, I must become the borrower of the night For a dark hour or twain."
Mect. "F Fail not our feast." Ban. "My lord, I will not."
(b) "Authorized by her grandam. Shame itself !"
(c) "My thought where murder yet is but fantastical."
(d) "Let your remembrance apply to Banquo: Present him eminence, both with eye and tongue Unsafe the while, that we must lare our honors In thesg flattering streams, and make our faces Vizards to our hearts, disguising what they are."
5. (a) " Tis safer to be that which we destroy, Than by destruction dwell in doubtful joy."

- (b) "Come, secling night Srurf up the tender eye of pitiful day, And with thy bloody and marisible hand Cuncel, and tear to pieces that great boud Which keeps me pale."
(c) "Rather than so, come, fate, into the list, And champion me to the utterance."
(1) Refer each extract to the speaker and tell the circumstances under which it was uttered.
(2) The first, (") is is bincul as an instance of poetic irony. Explain.
(3) Explain the italicized words in cach.
(4) Point out any rhetorical figures you detect.

6. Explain the grammar of the following extracts:-
" Whiles I threat he lives ;
Words to the heat of deeds too cold brcath gives."
"There's daggers in men's minds."
"The cloudy messenger turns mo his back, As who should say," etc.
"Of all men else I have avoided thee."
"I am in blood Stepped in so far that. should I wade no more, Returning were as tedinus as go o'er."
7. Contrast the characters of Macbeth and Lady Macbeth, and show how the punishiment of eacls satisfies the deunands of poetic justice.

Time—Threc hours.

## ENGLISH LITERATURE.

1. Write a short note on the alliterative poetry of the AngloSaxon period.
2. Gire some account of the English drama prior to the time of Slakespeare.
3. Contrast tho Gernan and the Frencl influence on English Litersture. Mention the periods when each has been felt, and some Euglish authorn who show the characteristics of cach.
4. Namo we chief classes of pootry and the characterintics of cach clan.
5. Write $n$ note on the ballad in English Literature.
6. Characterize Wordsworth as a poet. Did he conform to his own canons? Name his chief works.
7. What are the great periods of English Literature? Tell the leadine fentures of any of them.
8. Write a note on the progress of English prose, showing its various phases and some of the most distinguished prose writers.
9. Write a short essay on the nature and influence of the modern novel.

## COUNTY OF PEEI. PROMOTION EXAMINATIONS, APRIL, 1883.

## ARITHMETIC.

pirst to second class.

1. Write in words : -1010 ; 7009; 62001; MDCCCLXXXIII; CMXLIV.
2. Write in figures :-Nine hundred and eight ; six thousand seven hundred and one; and in Roman Numerals:-676;1475; 893.
3. From 101608 take $4786-235-1386+48+36435-72$.
4. Find the difference between $48692327^{9}$ and 507843016 .
5. A farmer had 14 horses, 16 mure cows than horses, and 5 more sheep than the number of horses and cows together. How many animals had he altogether?
6. Willie had a hundred marbles, he lost 50, gave 5 to James, 9 to Tom, and 7 to John; how many had he left?
7. A lady bought 3 hats at $\$ 8$ each, 6 pairs of bnots at $\$ 4$ a pair, 3 pairs of gloves at $\$ 2$ a pair, and a dress which cost $\$ 35$; how nuch did all cost ?
8. A man paid 8135 for a horse and 3208 for a carriage. For how much must he sell them both to gain $\$ 86$ ?
9. Set down the multiplication table of 4 times, 7 times, and 9 times.
10. John has 186 marbles; he wants to divide them among three boys. To the first boy he gave 47 marbles, to the second 19 more marbles than to the first, to the third the remainder. How many marbles did cach boy receive ?
11. Fund the sim and difference of 876453 and 375674 .
12. A owns 475 acres of land, $B$ owns 96 more acres than $A, C$ owns 847 ncrea, and $D$ owns as much as $B$ and $C$ less 135 acres. How much land do they all own?

## ARITHMETIC.

second to thind class

1. Find the product of 897650 and 65040 .
2. Find the product of the sum and the difference of 5089 and 4879.
3. What would 120 geeso cost at $81.37 \frac{1}{2}$ cents a pair ?
4. How many cows at 845 each should be given for 480 sheep at $\$ 18$ carh?
b. How many tos in a bushel of wheat? of oats ? of barley?
5. Find cost of 4800 tbs of wheat at 95 cents a bushel; if00 tos of cats at 37 h cents a bushel : 3600 thes of barley at 70 cents a bushel.
6. Solve by uxing factors ; $876987 \times 132,768940 \div 96$.
7. $87698745 \div 1883$.
8. $A$ and $B$ have together $\$ 7200$. $A$ has $\$ 000$ moro than $B$. How many horses at $\$ 70$ each could $B$ buy with his share?
9. 18 chairs cost $\mathbf{f} 72$. What would 24 chairs cost at the same rate?

## GEOGRAPHY.

## sECOND TO THTRD CLASS.

1. What is a river? a lake? a river basin 3 a strait ? an isthmus? a continent? an occan?
2. Name two rivers of Peel, and the townships through which they flow.
3. In which river basin are Bolton, Alton, Strectsville, Brampton, respectively?
4. Huw would you go from Bolton to Brampton by railroad 1 from Alton to Maiton? Eeep within the county in both tripa.
5. Name the county town of Peel, also its incorporated villages, and the townships in which they are respectively situated.
6. Name the High Schools in Peel and locate them.
7. In what part of the county is stone most abundant? Where would you find sandy hills? Where are there woollen mills?
8. Name the oceans and continents, and tell what oceans wash the coasts of North America.

## COMPOSITION.

third to fourth class.

1. Punctuate the following sentunces, inserting-capitals where necessary :-
three fishers went sailing out into the west
out into the west as the sun went down
each thought of the woman who loved him the best
and the children stood watching them out of the town
for men must work and women must weep and theres litle to earn and many to keep though the harbor bar be moaning
rev dr meleod was editor of good words he died ad 1872 when hrh the duke of cambridge was conducting the review near london the shah of persia presented him with a sword.
2. Transpose into the natural prose order the three stanzas of "The Wreck of the Hesperus," beginning "Then up and spake an old sailor."

## LITERATURE.

thind to fourta class.

$$
\text { (Pages } 209 \text { and } 210 \text { Third Render.) }
$$

1. What is the meaning of 'solitude,' ' monarch,' 'sages,' ' divinely, 'sallies,' 'cordial,' 'fleet,' 'despair,' 'reconciles'?
2. Tell what you know about Alexander Selkirk and about Cowper.
3. Verse 1, line 5-Why does 'Solitude' begin with a capital letter? Line 6 -Whose face is meant? What charms had sages seen in it?

Verse 2, line 1-For what noun does 'I' stand $\}$ Line 3-What does he call 'sweot music,' and why ? Line 6-What were 'tame,' and why?

Verse 3, line 4-For what nouns does 'you' stand?
Verse 4, line 4-What land does he mean? Line 7-To whom is this said?
Verse 5, line 3-How fast does a tempost go? Line 5-What is meant by 'arrows'?
Verse 6, line 8-What reconciles man to his lot?

## HISTORY.

## thirn to fourth class.

1. Gire dates for discosery of America, discovery of Canada, taking of Quebec, confederation of C.anadian provisces.
2. For what is ench of these men famous, viz:-Jacques Cartier, Wm. Pepperell, Pontiac, Montcalm, George Washington; Frontenac, Marqurtte, Tecumseh ?
3. Give the geographical position of cach of the following places, and mention a historical event associated therewith :-Acadie, Montreal, Pittsburg, Niagara. Detroit, Chatcauguay.
4. Who were the United Einpire Loyalists?
5. In what respects does the Government of Canatia differ from that of the United States?

## ARITHMETIC.

THIRD TO FOURTH CLASS.
(Fyll wcorl: required; no credit for ansurers only.)

1. Find the sum of all the following numbers:-Six thnusand and four, and cighteen thoumandths; eight hundred and fifty. and six hundred and five ten thousandths.
Nine, and six thousand and fifteen millionths; seventer housand and six, and forty-seven hundred thousandths.
2. A goldsinith manufactured 2 tha, 3 dets. 8 grs. of gold into rings, each containing 9 drits. 16 grs.; he sold the ringe at $£ 210 \mathrm{la}$. each; how much did he recaive for then ?
3. Divide $228 \mathrm{lbs}, \mathrm{G}$ ciz 2 dre 2 scr. by 76.
4. Definemeasure, multiple, G. C. M., fraction, terms of a jraction.
5. Simplify :-682: $\frac{1}{8}-8$ of $\frac{1}{6}-1659+\frac{7}{7} \div 75-\frac{1}{8}$ of 8 .
6. What is the smatlest sum of money with which I c a buy an exact number of pius at $£ 1$ 10s. Od. cach, or of lambs at $£ 2$ 10s. Od. cach,

7. A minn went to town and sold to a storekecper 5 bats of
 of butter, at 20 cents at 16 ; and 66 eags at 15 cents per dozen. Ho benght wieh the jroceeds $2 \overline{5}$ yards of cotton, and had $\$ 3.36$ left ; What was the price of the cottomper yard?
8. Of what mamber is 3 , the 8 part?
 miles apart, and approach each other, the furmer at the rate of 30 miles an hour, the latter at the rate of 42 mites an hour; when will they meet, and at what distance from $B$ ?

10 Prove that if the terms of a fraction be multiphed or divided by the sume number, the value of the fraction is not altered.
11. A owned af fam of 940 acres, 3 roods, 4 perches, 10 sq . yds. He sold to 1559 :irese, 3 roods, 6 perches, 18 yards, and divided the remainder cqually among his three sons. How much did he give each?
12. Arrange in order of magnitude (greatest first) the following fractions:-

3, $\frac{3}{3}, \frac{14}{2}, \frac{1}{2}$, and ${ }_{3}^{2}$.

## GRAMMAR.

## third to youmth class.

1. Analyze:-
(ij) In the basket he found two parcels.
(b) Whese was the little boy ye-terday?
(c) Finsh your work before school tame.
(d) (th ! you hurt my foot.
2. (a) What kind of a sentence is cach of the above. - Decharative, Exclamative, lmperatice: or Interrogatare? Give reason fur your answer in cach case.
(i) Write another sentence of eath hind.
3. Parse :-" "Tuis horse ran away yesterday and ran down the hill very fast."
4. Combine the following sentences into one simple sentence:A fox saw some wrapes. They were in bunches. The bunches were very fine. The fux was passing through a vineyard.
D. Correct crrors in the following, giving reasons:-
(a) I'hat writing is done very good.
(b) It was wrote last night.
(c) He had came before I left.
(d) Will we belp you?
(e) Was you or me there first?
5. Write:-
(a) A sentence containing a noun in apposition.
(b) One containing a predicate adjective.
(s) One containing a boun it the possessive case.
(d) One containing all adverbial pharase.
(Cuderseare your cxample in each sentence.)
6. Wrte at letter to a friend descnbing the neighborhond in whel you live, and the occupation of sonse of its people.

## GEOGRAPHY.

thind to founth class.

1. Define matershed, aretic circle, tide, delta
2. What amd Where are Mississmpi, Three Rivers, San Francisco, Regina, Nutre Dame, Nelsun, Ohuc, Alleghany?
3. Nime, in order, the States bordering on Canada and the Great Lakes; alsu give their capitals.
4. Dian : map of Ontario, showing the chief rivers and lakes, and the cotics.
5. Give the position of the places named below, and state for What products they are nuted - Caribou. Fraser Rwer, Maduc, Goderich, Maryland, Otanai, Black Hills, Petrolia, Georgia.

Stat gate On.-Lhike it, or dolake it, this is the Jnor, namely, that the reacher muni enturs rewente and strase, or fas. There are ano obstacles which null not fin down befinc tho fire and charge of cuthusiasm and energy.-Central School Journul.

## Practical Dipuartment.

## BLACKROARD WORK.

BY Miss ELLEN A. FOLGEH, CONCOHD, N. H.
In these diss the bachboard has becomo an indispensablo part of the sighool room furmshings. I will syeak of a few of its uses. We naturally think of it first as being used durng recitations in arithmetic. Besides having puphls work out dafferent examples on the board, I hase found it a gond phath to send the whole chass to the board to work the same example. Suppose I an teaching any puint in arithmetic and wish to seo if it is maderstool, I send the whule class to the board, having beforehand seen that a supply of chall and erasers is ready.
Sunte one maty say, "I can't endure such a noise ats the whole class will make in going to the board." Very well, assign to each pupil his perm:ment place, divide the chiss into sections and mumber cach section, and hate puphls take thair places as the number of their suction is called, each pupil can then quietly and quickly tako his place. While the class are doing the work given out by the teacher, she his time to notice what each is dongs, and to see the weak points. Some one may think that this gives pupils a good 'rpportunity to copy a neighbor's work if they are so inclined. By being careful in assigning places to pupils this difficuly is abuost wercome. It js wise to separate friends. Put the dull chiddren where you can see their work casily, and where no bright one will be near whose work will be a temptation to dishonesty. Pat the best scholars in such places that others can't easily see their work. If each pupil is working they will have little time to look around. Sometimes it is well to have alternate ones do the same work.

To get quick work it is a good plath to let the one who finishes first say whe, the next two, and so on. If the teacher wishes to test her pupils on processes and not answers, it is an excellent phin to read examples to the class and hate them express by tigures and signs the operations to be performed. In this way, in a very short time, she can ascertain whether they grasp the relations which the ditferent parts of the problem hatve to cach other. The work of the whole class can be examined much guicker at the borrd than if they work on slates at their seats and the teacher goes round among them.

Wut arithmetic is not the only branch in which the blackhoard is of use. In teaching language or grammar, whichever you choose to call it, it is equally usefuh suppose you wish the puphl to gre you an interrogative sentence ; many times the chahd will gre you a cur. rect sentence, but when ashed to write it, will ead it with at period. While it is often well to send the whole class to the board to write sentences illustrating some point, it is also in grod phin to send part to the board and have the ethers critecise what is written.

In history, geugraphy, or any brimeh that can be tanght topically let part of the class write a twicic on the board one day and part another day, if there be amt time for all to write or recite in whe day. Many mistakes in spelling, pauses, and capitals will be made at tirst ; but train tho class te correct tho work, and an amprovement will sumb be visible. Hold the one asked to cortect, responsible for all mistakes mate in correcting.

While drawing on the bachlooard is a good practice, I would not have the bonards conered with drallings which are allowed to romain there fur months. The blachboards should bo for use, and not solely for ornament. Nearly every branch can be better taught by using the blackborrd than without it, and at is equally useful in all grades. What is shown to the eyo is usually butter remembered thean if only heard.

Alchough in many schools tho blackboard is used too little, there is such a thing as earrying blackboard or slate-work to an extreme. It is well to accustom pupils to mental work with nothing before the ege representing the subject under consideration, for pupils can't always carry with them a slate and pencil.
The teacher must bo careful not to keep her pupils standing too lung at a time. I know of one teacher who used to tire her class exceedmuly by her thoughtlessness in this matter. Twenty minutes is long enough to keep a class standing at a time. By a little care a teacher can so arrange the work that no one position is kept very lone at a time.

The greatest objection to black board work is the chalk-dust. That is unaroidatle, but it can be lessened by getting good crasers and allowing them to be used ouly at a given time. Otherwise some chaldren will use them coritinually, and mako much unnecessary nose and dust. Sume noise is inevitablo, but I agreo with the one whos side he "preferred the noise of activity to the stillness of death."

## WHAT CONSTITUTES A TEACHER 3

M. E. M.

Is a person fitted for the position of a teacher becanse he cin pass the cxamination required to emable him to draw his pay in case he can secure a school? In far too many cases he is not, and onght mut to attempt schoul work. It is one thing to bo able to get the required knowledge, but a more difficult one to be able to impart it to others understandingly. Sumetimes the ability to teach secms to be a natural gift, but that instinct of teaching that does not require cultivation, is very rarely found. The gift of teaching is not given to us as the bird knows how to build his nest, or the spider to weave his silken web, we are to learnit by experience and by constant efforts to be a better and more earnest teacher. Every one acknowledges the necessity of study in order to pass the dreuded examination; but this mev over, too many teachers fail to realize the need of further study, forget to search for the best ways and means of reaching the child mind. As the success of our school depents mainly upon our orn efforts, we need to make everything work to one advantage ; if we fail to reach our highest expectations we become more earnust in our efforts.

In siying that the teaching gift is suldom a purely natural endowment, I do not call it of little importance, far from that, it is of the highest importance, and even $r$ th the most liberal talents and the best hterary acquirements we often make failures in our work.

In the press of lifo's routine of duties, we too often forget the sompls looking to us for guidance over life's difficulties. We all need the " growth of higher feeling wathin ua, bringing strength to help us in our weakness." We are responsible for the kind and amount rif preparation which we make before entering upon our work. We can not mensure this respomability when we consider that the misterial upon which we are to work is "jewels" of the costliest type, the structure we are to build is to endure through all eternity, and the influence of this structure is to be felt until time shall cease.

There aro many faithful teachers in the land; they enter the school room and carry with them love for the trork that transforms the dingy room inte almost palaces. They are not satistied with the achievements of the past, but read and think that they may be better wotkers; alhough they may not gain attention from tho world, they are doing good work, and in after scare, amid life's uusy scencs, some une will say of their lires, I owe it to ny teacher. Such a monument is more lasting than granite.-The Moderator.

## THE TEACHER'S POSITION.

It is much easier to see tho defects in any system than to suggest feasible remedies, and it is difficult for those who are not actually engaged in the work of teaching to appreciate fully the difficulties in the way of educating the masses. In all professions, except per. haps teaching, somo credit is given to experience and professional training. If a man consults a lawyer, ho gives the lawyer credit for knowing more about the law than he does, and he governs himself accordingly. So in medicine, the opinion of a physician is entitled to considerable weight. All other professions are treated with a like consideration. There is, unfortunately, in many communitirs a tendency to treat the educator differently. Many persons with no experience in the work of tenching, and without any appreciation of its difficulties, feel as competent as the most experienced and successful teachers to decide what the needs of the school are, what studies should be pursued or abandoned, and how schools generally should be managed. Years sponit in careful study and investigation do not reem to command that consideration in teaching which they receive in other professions.

One of the suggestive lessons of the hour is the periodical election of persons to positions on school boards, who propose to revolutionize eintirely the methods and workings of the schools. As a usual thing these revolutionary members, on a better acquaintance with the schools, take a very different view of the whole matter, and frequently become zealous champions of the schools. No more useful members aro sometimes found on school boards than these very men.

What the schools need is intelligent and honest criticism. There is no doubt that there are many and serious evils connected with our present syatom of public schools. It is likewise true, with the crowded condition of our schowl houses, poor ventilation, nbsences of pupils from school, teachers appuinted not for ability but for other reasons, meagre salaries, little inducements for men of ability to remain in the profession, that the results are at least commendable.

An encouraging sign is the healthy growth of public sentiment, and the prevalence of more rational views on educational methods. -Educutional Nezes.

## PRACTICAL COUNSEL TO CANDIDATES FOR EXAMINATION.

Mr. J. G. Fitch, one of Her Majesty's senior Inspectors of Schools, in aldressing the students of Stockrell College, siid:-
"I cannot be unaware that the examination of next week is necessarily uppermost in your thoughts. A great deal of your professional success will depend unon the resull of it. Being a persun who in his time has been a good deal examined, and one, moreorer, who has had a good deal to do with the examining of others, it may not be amiss if I sive you a word of practical counsel. I have known well-qualified students fail to do themselves justice through want of attention to two or threc simple matters. The knowledge which you have been diligently accumulating in the pnst jears will not tell in the examination unless you can set out, clearly and concisely, the result of that acquisition on paper in a limited time. To do this it is necessary that you should havo all your faculties at command. Now, no ono is ever made calm or self-possessed by being told to be so, but there are two or three simple devices by which this end may be partly attamed. In the first place, then, carefully read through all the questions before you begin to answer any; a little timo spent in this way at first is timo well-spent. Then I think it is a good plan to begin with the question which you fcol
you can answer best. By the time you have come to the end of your answer yon will be surprised to find how much of confidence and self possession you have gained, and how much less formidable other questions appear. Before you attack any question study the terms of it carefully. An examiner generally takes pains to word his questions so that there can be no doubt as to what he does and what he does not want. But in reading examination papers I am often surprised to see how many very good answers are written to questions which aro not asked. At first glance a question may seem like one you have seen before, or may seem to.demand something which you knows well ; you begin hastily, and discovor too late, or perhaps never discover at all, that your answor is irrelevant. I will give you an instance. At last year's examination this question was set in history: " Describe the causes that led to the American Wir, and some of the most important consequences that resulted from it ?" A number of students plunged briskly into a full account of the American War. Perhaps they had recently had a lecture upon it. So Bunker's Hill, Lexington, the character of Washington, and I know not what besides, were discussed at length ; whereas, you see, the examiner had advisedly set a question which did not ask for thesa details at all; but only for some of the previous and succeeding circumstances. I daresay that as he struck out answer after answer for irrelevancy he grew rather displeased, and, between ourselves, it is never very good policy to put an inspector into an ill temper.

## THE NEW CODE AND OVER-PRESSURE.

The controversy turns mainly on the one accusation that there is great pressure in Elementary Schools, and that burdeus too heavy for them to bear are placed on weak and dull children. The $N a-$ tional Umon of Elementary Teachers asserts this as a fact of wide application, the Department admits its truth in exceptional cases. "My lords are quite ready to admit that in the 18,000 Elementary Schools now receiving Parliamentary aid in England and Wales, as in all other places of education, instences of overpressure occur ; and that in some cases more is required of individual scholars than they are able to accomplish." The important question is, Can the charge be fairly urged in the case of classes of children, or does it apply only to exceptional instances of dull and stupid children?

By the assailants of the Code it is urged that the percentage principle must, from the conditions under which it is applied, press heavily upon large classes of children. The ill-fed, ill-clad, badly housed, neglected children in large towns are to be counted by thousands; and yet the same standard of knowledge is demanded from them as from the well-fed, well-clad, well-housed, carefully tended children of artisans and small tradespeople. On the side of the Department it is urged that " the course of instruction, under the Code, so far as it is obligatory, can be easily mastered by a chuld of ardinary health and intelligence," who attends regularly and is properly taught. It is hinted that teachers "fail to distribute the work fairly over the whole period of the scholars' attendance, or to teach diligently throughout the year," so that they are obliged to resort "to a system of special effort and preparation during the few weeks or months immediately preceding the Inspector's visit.', From our own tolerably wide experience of schools, we must say that this charge is unjust. We hare been often struck with the prompt alacrity with which teachers on the day after an examination have begun to prepare for that in the following year. We are convinced that, as a rule, they do their best throughout the year, although as the Inspecter's visit approaches they beccme painfully conscious that unless very strong measures are taken a number of children must fail. They therefore work them up during extra
hours, nomotimes, we fear, at the cost of their own health as woll as that of the children. We greatly fear that the requirements of the Code are as much in excess of what the very poor children can master, as they are below what children paying (id. or 9d. a week could accomplish. The Department has not yet learned that classes differing widely from each othor send their children to bo taught at Elcmentary Schools, and that we never can have a thoroughly satis. factory Code until this is recognized. In defence of the Department Sir Francis Sandfurd says that there "is a mistaken, but ap. parently a common idea, that a sufficient grant is to be earned only by teaching a large number and variety of subjects." Sume schools may have erred in this respect, but the mistake is not general : Aㅇㄴ, 723 children failed last year to pass in arithmetic, 383,198 in writing, and 228,453 in reading ; only $\mathbf{1 5 5 , 1 3 7}$ were presented in specific subjects, and of these about a third failed.

The blame of irregular attendance the Department seeks to throw on teachers and managers, and especially on teachers. "With regard to irregular attendance, it should be borne in mind that this can be checked by nothing so effectually as by the cooperation of managers and teachers with the local authorities in the exercise of the compulsory power. That co-operation is often wanting." We believe, on the contrary, that managers and teachers do, as a rule, their very best to secure regular attendance. Many of them t.ake infinite trouble to effect it. It is true that some teachers are nore skilful and attractive than others, and that they can achieve results denied to those who have not their special gifts ; but when the great majority work to the best of their ability, it is unjust to throw blame upon the less successful. There suems to be a notion abroad, and we fear that it is entertained in Whitchall, that poor people, with scanty means, liable to sickness, compelled to allapt thensselves to the requirements of employers, can send their children to school as regularly as parents who have servants at command, and who never need the services of their children. The Department may mean by their implied censure that manasers and teachers are to be blamed because they do not push the powers of compulsion to the extreme point which the law allows, by enforcing fine and imprisonment on the father of every child who does not regularly attend school. If that is the Department's idea of the co-operation which managers and teachers should give to the local authorities, we are not surprised that it thinks them wanting in their duty. On no other hypothesis can they be blamed, and we cannot but think that they would set the country in a flame if they so carried out the lav.
We do not doubt the anxiety of the Department to adapt its demands to the fair requirements of the country ; we have every confidence ir the uprightness and equity of the Inspectors; but it must be remembered that whilst their occasioual visits may enable them fairly to test the literary progress of the children and the discipline and manner of conducting the schools, it gives them no clue to the difficulties which children have to conquer in order to attend school and to the obstacles thrown in the way of their learning, by poverty, starvation, frequent removals from school wschool, and the incessant demands made upon their time by the exigencies of home life. -School Guardian (Eitg.)

## THF TEACHING ART.

In glancing at the reports of the various normal schools one turns naturally to see what specific work is done by each to prepare the pupils to becone teachers. Some normal schools take this position at the outset: there is no such thing as teaching one how to teach. In other words, they deny that teaching is an art. This reduces every such school to the pusition of a high school, and 10 mall number are merely such.

Others give lectures or talks to the pupils that have some relevancy to school-room work; the subject of moral influence is the one usually descussed. But even in these schools the main thing is to drill the pupils in text book knowledge. The principal is: Rouse the pupil to self activity and he will be a good teacher.
A very fow normal schools attempt to teach the art of teaching. They discuss the principles of the art daily until a firm foundation is laid in the pupil's mind. This is one source from whence real teachers come.
Thero is another source. Out of a thousand young mein and women who begin to teach ten jears ago, and who for twolve months :asted the time of their pupils, a number saw they were really blind leaders of the blind. Some determined to come out of their darkness. Continuing to teach and to search for light, they stumbled upon certain rules of action at least. They found at least that when certain things were done in a certain way, the pupils were interested and got their lessons. Sume having more of the scientific spirit than others (the scientific spirit being the desire to classify like objects) found fixed principles to guide their action. It is from this source the large part of the skilful teachers of the country have sprung. And in spite of the increase of the normal schools, from that source most of the shilful teachers are to come, for the schools havo increased faster than the normal schools.
Thousands of teachers possess no acquaintance with the art of teaching, with them it is "the art of hearing lessons. The young man who graduates us a physician is quite likely to follow as dull a routine as the teacher. He concludes a patient has malaria and prescribes quinine, or that he is bilious and prescribes blood-root and sinks back into his old self again.

To acquire the art of teaching, the pupil must set to work to study daily and hourly the modo by which the mind acquires growth. Suppose a man had never heard of elimination of one of the unknown quantities of an equation; suppose he considers the matter, tries experiments, he will, if he goes on, reach at last the three modes by which it is done; then in solutions he will apply one or other of these. It is in this way the mind must work in attacking the problems of teaching.

The teacher has beentold that spelling is to be taught by arranging the pupils in rows ("tweing the line" usually), and beginning at one end to "putcut words" until all the words have been spelled. The thoughtful teacher will ask, Why do I do this? What is it to learn to spell? What pusition does the word stand in, in relation to the idea ? etc., otc.

The questions that could be asked about this rery simple (i) matter will set the teacher to thinking; many knotty questions will present themselves. But the teacher must ask and must answer them. In the same manner he will take up the subject of number. In this way he laws a foundation for the art of teaching, and it is the only way. - N. Y. School Journal.

## LEESSON ON COMMON OBJECTS.

## BY E. J. HALLOCX.

## WATER.

Specimens and apparatus reguired: A pitcher of water and tro ginsses. If convenient, obtain a bottle of salt water, one of hard water, and another of rain water; also some of dirty water and lime water, together with some salt, sugar, suap, chatcoal, sanu, filter paper, ice.
The teacher may begin the lesson hy pouring somo water into the glass and asking each of them in turn, or all in concert, to name sume of its properties. "What can you tell me about water ?" is a good form of question. Tell nothing, but hear everything, and try to draw out such answers as these:

Water is a liquid ; it has no color, no smell or taste, is cold, is wet, is heavy.
Then you may ask them if they can see through it, and tell them that such things are called transparent.
What shape is it \& Puur it into different vessels to show that it will take any shapo, but is always flat on top. All liquids do this. If you can borrow a carpenter's level, it will interest the class still more.
Fill the glass oven-full of water, then insert one or two fingers and ask, "Why does the water rin out?" A little talk over this will lead them to discover that two things cannot occupy the same space at the same time. If the class are old enough one of them may be tuld to writo the word "impenetrability" on the blackboard.

What is water good for? Among the nnswers will be to drink, to wash in, perhaps the boys will say to fish or swim in.

Throw some salt in the water and when it has disappeared ask where it has gone. Some will be sure to say it has melled; tell them that is nut the right word, and after a while, if no one can give the correct word, tell them it has dissuived. All through the coursecare must be taken to provent the use of melt or fuse where dissolve is intended. The subject of solution can be made very interesting.
If you can't see the salt how do you know that it is really there? Take two glasses exactly alike, fill each half full of water, put salt in one and not in the other; then turn your back to the class and change them so they will not know which has the salt in it, and on placing the glasses before the class ask them to find out (not guass) which is which. Some one will probably think of tasting, and may be allowed to do so. Taste, then, proves the presence of what we cannot see in this case. After a considerable quantity of salt has been dissolsed in the water, evaporate a little of the solution to show the class that you can get back whatever has boen dissolved in it. A teaspoon two-thirds full of the brine may be heated over any kind of lamp and in a few minutes the water will go off and leave the salt, which will begin to suap and crack (decrepitate). Another proof of a substancein solution is obtained by evaporation.
Continue adding salt and show that a limit is soon reached where the water will not dissolve any more; it is saturated; it can be compared to a person who has eaten his fill and can eat no more. The experiment may be repeated with sugar, but only a small quantity of water should be taken, as sugar is very soluble. They will notice that some things are more soluble than others.
Throw some clean sand in a glass of water; it soon settles. Is it soluble? of course not. Stir in some clay or any earth that is near at hand ; it does not dissolve nor does it settle.

How can we get \{t out? Some one may say, strain it; and this can be done. A pieco of filter paper (to be had of any druggist or photographer), is cut to a circle folded twice to a quadrant, such as is formed by the hands of a watch at 3 o'clock, (also at 9 o'clock), and on partially opening it, it will fit in $\Omega$ fummel ; wet it to keep it in place and open the pores. Through this the muddy water may be filtered ; a portion, and sometimes all of the dirt will be remuved. Show them that salt and water cannot be filtered uut. Why not?

Dissolve hard white soap in water until it will not take any more; if it forms any flocks or sediment filter it, or strain it. Put it in a bottle and label it "soap solution." Fill a small bottle half full of rain water, then pour in a vars little of this soap solution, and shake it ; call attention to the fuam. In another bottle put sume hard water, drop in the same quantity of soap solution and shake it ; no foam will appear until a good deal more of the soap solution is added. (If naturally hard water is not easily obtained, add a little limo-water to ordinary water, and use this for "hard water.") Try to make soap auds with hard water, and show how difficult it
is to do so. (It tho class are quito young omit the hard water para. griph.) A piece of boiler scate or some "tir" from tho inside of a teakettle may bo exhibited at this point, if to le had.

Whet ix ice? How cen we change ice into watcr? Water into ice? Effect of hoat on ice ; on water. Boil sume water and hold a cold plate in the steam and let son. 3 condense on it. Ask what be. comos of witer when it "boils awaly."

Procmoa clay pipe with as long a stem as possible,-some are ten inches long. Fit the bowl over tho neck of a small, thin bottlo or phaal contaming some wirm water amd cank it with wet paper, or, better, a piece of an elastic bamb. This forms a rude still, or returt, and several drops of distilled water can be obtained by warming the phial very carefully. (Wry this beforehand.) Set the bottle on a saud-b:th, made by putmig a hatto dry samd in athy small tin dish, or the ldd of a baking-powder box, and support it upon threo lonss spikes driven in a black of wood, so that it will be hugh enough to slap a sumall alcohol hamp under it. (If a test tube can be had it will need no sand-bath.) The object of the sand-bath is to distribute the heat evenly, but much lieat is wasted.

An alcolnol lamp can be cxtemporized from an low, flat bottle, such ay an ink bottle, or vaseline bottle. Fit it cork, bore a holo in it, nud put in a small tube of glass or metal through which to pass the wick. The tube of a metallic penholder, or the end of a wooden one will answer, and can be made to cut its own way throngh a soft, thin cork. If you succeed in heating the bottle without cracking it, and the pipe stem is kept coul. distlled water will drop from the end of it. (Exphain distit.) By attaching the bowl of the pipe to the spount of a five-cent terpot, by means of a cork, better results are obtained, but the class cannot see it as well.

What is rain reter? Where does it come from? How does this differ from distillation? Why and how dues a pitcher of ice water generally "sweat?" Is the steam on the kitchen window on a cold day distilled water?
Eraporate some distilled or rain water, and show that there 19 no residue left. Melt some clear ice and evaporate this also.
Put a few drops of black ink in a glass of water, or enough to make it luok dirty. Filter this through the filter paper ; if it is not clear put some tine sand in a fumbel, and on this some charroal fincly powderea. Pour the inky water on this and it will soon run through elear. Repeat with red ink, or red wine. For older classes enlarge upon the nuportance of filtration for drmaing water.
Pour some alcohol in the water; it disappears. Mas it dissoted like the sult? How do you know that it is still there? The class will answer, "taste at," but you can tell them there is another way, namely, "smell it."
Pour some hind of oil on water and shake well, asking what will - happen. As it comes to the top, ask them to explain it. Has it dissuleal like the alcohnt? Why does it float? They will notico that water dissulves sume liquids and not others.
If you can obtain some alcoholic tincture, or strong spirits of camphor pour sone in water. It is milky. Camphor is insoluble in water.
Pour some alcohol on a plate and set fire to it without telling what it is, and ask, Is that water? Why not? Will suater burn?
Dropin lighted match or splint in water. Why does ic go out ? Speak of the use of water to extmguish fires.

Rub a very little grease on a pane of ghass-the perspiration of the hand will often suffice-and show that water will not wet it, but furms romal drops.
Hold any vessel of cold water, which is dry on the outside, over the flame of the atcohol lamp; it becomes corered with dew or drops of water. Even when thers is so water in the alenhol this will tahe place. The water has been maie from something in the alcohol, and something in the arr. It would bo whing too far to explain how, but it mily be stated incidentally. that water is always made by burning oil, gas, or candles; and that this is why the winduws of toy shops are often so covered with water in' winter ovenings that it is impossible to see through them.

Drop into water variuts small articles such as pins, beads, pebbles, nuts, and preces of wood and paper. H:hy do somie floct and others sink? After a whle they will conclude that whatever is lighter tham water will tloat.
Is water heary or light? What does a pint of cater weigh?
This' involves the uso of a seales, also weights and measures. Leave this for the next lesson, telling them to try and matio some ncales, and if they camont you will show them how, next timo. N.:Y. Sichool Joumal.

## WHAT TRAINING.CLASSES SHOULD HAVE AND DO.

(1) They should have leesons,--nut lectures, alone,-on physiolngy and psychology, hearming to observe and to amaly za then ubservitions; to find phaciples and to aply diem ; to discover motives, tendencles, and incentives; to donbt themselves and to accopt truth. (9) They should study plants abd ammals in their life and learn to murse them. (3) They shomh become familiar with tho lastory of education, of human thuught, and ot human progress, in clear and distinct outline, so that motheir work they may conseiously aid thought and progress. (4) They ghould leam to hande Frobel's gifts in all drections, and to invent and use bew occunations. (5) They shoud obserce in a model kitudergarten, and give clear accounts of their ubservations.-A merican I'cacher.
-This journal is an earnest advocate of a speedy reform in our present absurd system of spe!ling. It belheves that hy it wise concert of phologists, authors, and mellige people generally, even a single genoration maty withess vast imporement. But we must ask our ultri-reformers in this comatry not to furget the wisdom of "mahing haste bluwly." All reforms are necessarnly ahead of the age in which they arise. Let the spellug reform avoid the danger of getting so far alhend of our day that the :cople will find themselves hopelessly behind. It will be enough for one generation may, for two or three-if the twenty rales of tho Anserican Spulling Reform Association be adupted and thorongily used. The time has not yet arrived for the adoption of a new alphabet. And no new alphabet can ever find favor that has not the prime reguisito of the same simplivity of form that now distmgnishes our present letters. No such complex and un-Euglish forms as we see m tho Fometir Terher will ever be fasorably cuasidered. They are open to the same serious objections as are the German characters, to which physicians attribute much of the cyedisease so widely prevalent Mmong German students. There is in strang tendency in Germany to adopt our alphabet ; let us not make the serinus blunder (under the guse of reform) of introducing new characters wheh shall bo weither simple nor easily distinguipiable from those already muse. It we must have a mew alphabet of forty-six characters, the ingennity of man is surely capable of inventing twenty new characters sunple in structure, and not too closely resemblang the old letters. -The Pacific Sckool. Joumul.

## Bublishtre' Beparturent.

## NOTICE TO Club SUBSCRIBERS.

In counties where Association Clubs are formed to subscribe for the Cavada School Jounial the subscriptions should bo sent to the secretary of the association for tramsmission to us; for as ine has to keep account of the payments, and in nearly every case to supplement the subscription mite required of each member by an additional amount from the association fund, it confuses matters ${ }^{3}$ considerably when club subscribers remit direct to us.
While on this topic we maty taiko occasion to thamk very sincerely the numerous secretary-treasuress in the Provace who have already sent us lists of subscribers for 1884-j. The prospects of the Jounsal for this year are, so far, oxtremely checring and enconaging. Its success depends on tho teachers, and as it is published in the interests of the profession wo hope they will nut only sub. scribo themselves but also induce lucal friends of education to become subscribers.

## clotes and ditws.

## ONTARIO.

In consequenco of ill lealth, J. A. Clarke, M.A., B. Sc., has resigneci his pusition as head master of Sunth's Falls High Schoon. He lay been succeeded by S. Burnash, B1.A., of Coboung.

After the change in the law with reference to the licensing of teachers $\min 1871$, no perceptible change in the stafl of teachers was seent tur abuac the years. Juring thas pentod the ofder teachers who had been tfachn!s under the former law gradually passed out of the protesstun. Then followed a thamstion period of about another two years, dung wheh very many of our selools were in chatge of joung and maxperienced teachors. Many of those goung teachens havo remaned m tho protession, havo passed thootgh the Nomal Sehool and have ubtamed permanent certiticates. Ino-thinds, it thet thre--fourths of the tachets at peesent employed in the county, have had as much experience in teachang as the majonty of those who were employed twe dre years ago, have been vely much better tramed and hoid higher contincates. With a proper apprectanon ot there servies by the pubice, and by the paymeat ot stemat salaries to all who do good work, the anmal "uste should be tully provided fur by the regular supply from the County Model schaus.-Mr. I'illey's sepert.
Sume time since we noted the necessity for a new high school buakng m Urangevillo as the two rocms now occupied by the high schove papils ate part of the Model Nichool butang and are tou errumscibed and meonvement-requring two teachers with thene classes mine ruom. We perceave that the Board of Education moneds to build an new high sefool.

Whe Unversity of st. Andrew's has conferred the degree of Doctor ot Litha on Mr: Sandiord Flemang.
Mr. Robert McCausland, Principal of the Bathurst st. Pablic Sthoul, Lutunto, wis changed in the Yolice Cuast recently, with assault un usic ol his pupisy, a boy mamed Mchatush. Frum the eviatace it appeared ham the buy was vely mabivordmate, and that
 the recogmaed modus oferandi. The mugistrate deterred the mater to the schoul Baad who repmamided Mr. McCansland and anso lassued misthucthons to all the phatipals of the city schlouls io uso the shap onty as a means of panabhemt when necessany. Mr. J. L. Hughes, hay dispectur of schools, satd the pruper cut'ro ior the tachos "as to l re suspended tho buy and repurted tite case to lima (ilie Hispecior).
Dr. J. G. Hudgms, Duputy Mmaster of Educatoon, visited Hamilton fately mad eaphesocu thmeelt much pleased wath the mamer in
 the Cennal rchoul.

Casaba Schoul Jounsal. - 'The last number of this useful educathonat pubncation comanas as vanety of excellent and appropriate arbece, oraghan and setected, whelh those for whom they are
 on "Willam Civenet, A.M.," which is allustanted wath a welldelmed and nte-nhe joitrant. In addition to the usual subjects of a pusey sedolastec anterest provision ss mado for a free moterchange of ofmon on educational matters. The correspondenco department

We are pleased to note the high stand taken by the Flesherton Public School at tho hitermedate and Emanace Examanations. Its present etticiency is chtheny due to Mr. MI. F. Dlamoter, the entegetic Priacipah. Dr. Achaster has now enteited on his sixilh Lear as head muster of the schaol, with a highly ereditable reputimion as a successful teacher. Ho is at prebelat pheparmy a large class for the Eintance and latermedate exammations next Ju.j. $H_{1 s}$ popularity is vouched for hy having been successively the Vice Piestacht, the President, und ie now the Decretary-Tieasurer of the Suuth Grey 'Itachers' Assuciation.
The next exammations for entrance to the Collegiate Institute and High Suhoors as appolated iy tho Educational Department to be hen on 'hursday und Fiiday', 3rd and 4th of July.
In the Ditchell public bel:oul the other day a number of boys :icre phaying what ard hot puker. Une of hem, eather by accidetit or culter wise, san the end of at into tho tyo of a sun of Mr. Jathes Sills, zid it was thought destroyed the sight. The attendiug physician, however, has now sume hopes of aving the sight.

It is reported in the papors that the schools of Kingston have been so crowded that pupils have had to sit on the flow and on window sills: This is a clear caso of the 'rinstecs' 'ram to which we called attention a fow months ago.

Mr. Samuel McColl, of Duuwich, has been appointed by Mr. A. J. Leitch, Warden of Elgin, interim inspector of public schools for Elgin, in place of the lato Mr. A. F. Butler, and will hold the office until next June. Thie selection of a permanent inspector rests with the County Council. Mr. MrColl was fomerly superintendent of schools in West Elgin.

Much has also heen done in the way of improving the condition of the schuol room. Bat much still remains to be done before the school roums become what they should be, viz: models of tidness, order and taste, which shall permanently influence for good those who assemble in them day by day. The influence of precepts and maxims may be great, but the mfluence of personal contact must be far greater, and the daily contact with order and neatness will be a powerful agent in directing and moulding tho chatacter of the cluld. It is to the teacher mumly that we must lowk for this. The trustees may provido school houses, desks and all school requisites, but the teacher is like the enginecr who directs the machinery and keeps everything in order. It is but poor encouragement for trustees after laving properly supplied ther schools to seo the fixtures too soon destriyed, the tence become dalaphated, and the whole school premises show but too planly the absence of proper care and attention. I should like to see much more done in the way of ornamenting and decorating schoul towns. Dany teachers have dune all that can be desired in this direction; sume have done a hatte, and some have done nothong whatever. This is somethang in whelh the puphs should be associnted with the teacher. Chaldren acquire habits of nentness and onder by the daily practice of the sume. And the teacher who gives proper attention to these things m the school room and insists upon their observance is a true friend of the child. It is a thue saying that a youth's manners shape his fortune, and the cultivation of tiste and proper deportment muy be equally ns bencticial as the knowledge obtained trom books.- $19 r$. T'illey's Report.

Mr. George McMurrich, chairman of the Committee on School Management has, through Inspectur J. L. Hughes, intimated to all the teachers in the Pubice Schools of Toronto, that with the view of preserving a record of the many humorous incuilents commected whit the werk of the school-romm in sur city, and at the same time cultwating the literary abilities of the teachers, he will, at the close of the present year, give a first and a second prize for the best two collections of anecdutes, written by teachers and dpscribing setual oecurrences in our public schouls. Teachess need not connme themselves to the present year, but may describe any arents in their teaching expetience in Toronto. The excellence of the storics, and the abolity shown in relating them, will both bo taken into account in awarding the prizes.

After four examinations have been held and the results made known they can no longer be regaried as an exporiment, and I now wish to ask you, as the representatives of the people, to consider the question carefully and decide whether they siiall be permanently establishod or discontinued. I had full contidence in their usefulacss at the beginning, and this contidence has been well sustained by the results. They have developed a much deeper interest in school work swong both teachers and pupils; they have directed and have helped to unitize the teaching in the different schools, and have secured proper attention to all classes and to all the subjects of the prescribed programme. By placing a drect object betore teachers and pupils they haro devcloped a healthy stmmulus, and by tho testing of the work each half year have affiorded a pretty accurate test of the thoroughmess of the work donc. They havo also been very bencficial in traning pupils to express themselves propnily in writing and to do their work with neatness and accuracy. I regard this as one of their nust important functions which cemnot by estimated too highly, and the results and inprovement during the past two years havo been very satisfactory indeed. Early in December of the present year. I sent out another circular in whech, among other questions, 1 asked the followny: (1) Do the promotion examinations continue to develop intercat m school work among tho pupils? (2) Do you wish these examinations to be continned! I have received replies from every teacher in the county, and all, without a single exception, haro expressed their approval of them, and have expressed a desire for their continuance. Many teachere were rot satisfied to merely answer in the affirmative but expressed this approval and denire
in most omphatic terms. Such a hoarty and umanimous verdict of ondorsation from such a respectable nid intelligent body of educators as is found in this county is very gratifying indeed to me, and it uffords me tho most sincero pleasure to be thus assured that I have been able, with the hearty co-operation and assistance of the teachurs, to dovise nad pit into successful operation a ajstem of promotion examimations which meets with such general approval, and which is accumplishing $m$ so satisfactory a mannor the results for which it wis intended.-Mr. Tilley's Report.
The salary of Mr. Ford, one of the staff of St. Thomas colleginte institute has been recently increased. Ho has now $\$ 700$ a year.
The Committee of Managenent of the St. Thomas Board of Education recimmended that fre drill be held at stated intervals in all the schools of that city. The Board has adopted the recommendation.
Dr. J. G. Hodgius, Deputy Miniater of Education, hald an investigation lately in Simeoo County which has revealed the fact that candidates for examination were able to obtain the question papers prevous to the day of examination, by abstracting them from the Inspector's office. As a result of the inquiry the certificates of twenty-erght teachers who were implicated have been cancellod.
We are continually showing the evil effects resulting from the use of pernicious literature by the youth of this country. Recently we read in the public press tho record of a forgery committed in Montrenl by a boy in whose home a large quantity of dime novel trash mas found. Still later we find a boy shooting his schoolfellow with a revolver in the streets of Toronto as they were returning from school at dimmer-hour. It is rumored that in Lindsay also two school buys have been badly wounded by shots fron revolvers which they were handling. Firearms are the right sort of equipment for a " "boy detective," juvenile "Jesse James," or youthful "Buffalo Bill," and so long as such dangerous weapons are allowed in the ponssession of inexperienced and incautions youth, just so long will this preventable mischief occur. But that is not all. We find th.it teachers-in the city schools especially-ares so harassed by the insuburdination and impertinence of these youthful bravados that they are compelled to rosort to drastic measures to reduce the boys to subjection; and because the punishment is considered severe by the over-induigent, unwise parents, the teachers have to account to their respective Boards, or to the mavistrate, for their efforts to correct the evil created hy foolish leniency at home, or lack of proper supervision. The imporiation of filthy books is prolibited by law, and it is time that legislation stepped in to put an end to the introduction into the cuuntry of a class of literature just as bad, if not worse ; the reading of the former creates disgust and is seldom continued, but the latter has a tendercy to arouse an insatiate mental thirst for morbid excitement which frequently upsets the reason of those who read it. We think that the question "What means should be taken to suppress the circulation of pernicious literature among our youth ?" might forman interesting and advantageous topic at the ensuing Teachers' Conv:ntions.
The East Huron Teachers' Association have invited Professor Melville Bell, the well-known elocutionist, to give a lecture on elocution, interspersed with a number of his choice readings, at the evening entertainment in connection with their convention to be held at Blyth on the 15th and 16 ch of May.
The Legislature has granted power to Torontn University to confer the Degree of LL.D. as an honorary degree and without examination. If the University never exercises this power nubody will be hurt:- The multitudinous horde of nondescript doctors is not seriously in need of increase.

## manitoba.

The Board of Education, at its session on February 6th had before it applications from Prof. Bryce and James Campbell relative to the use of an additional set of reading books for the Province. It was unanimously resolved that, "Whereas in December, 1881, the present series of reading text books was adopted for use as being at that time considered the best and still give satisfaction, therefore, in view of the expense and annoyance to parents that would follow frequent liability to a change, it is inexpedient at present to adopt any new series."

The appointnent of a principal for the Normal School, in consequence of the resiguation of Mr. E. S. Byington, was then taken up. From the inguiries made by the Superintendent, by the direction -f the Board, the Board was led to the conclusion that Mr. D. J. Goggin, Head Master of Miocial Sclionl, Port Hope, Ont., was eminuntly fitted for the position. He was therefore appointed by a unaminous vote, his duties to begin on April 1st, 1884, and to oonsist of the conducting of local model schools for third class teachers from that date until November, when a five months' session will be held at Wimipeg for the training of first and socond class teachers.
Arrangements wero made by which tho Suporintendent is ompowered to pormit rumal trustees to disponse with suminer vacation when their carcumstances may require it. Committecs were named also for the selection of suitable Scripture readings for use in schuols and for nssigning special literary work in connection with the ordinary reading excrises of each day.
The :"risogtant Schoul Board for the city of Winnipeg made their half-yearly visitation to the city school on Friday, February 8th. Besides the Board and Mr. Fancett, the Iuspector, a number of guests were invited, includug the Superintendent of tducation, Mr. J. 13. Somerset, Archdeacon Piukham, Professor Hait, Canon O'Menra, D. Agnew, and others. After driving round to the various schools and observing their orderly and neat appearance, lunch was partaken of at the Queen's Hotel, and an adjuurnnent made from that to the Education Oftices on the invitation of the Superintendent. Mr. Stewart Mulvey then took the chair and the afternuon was spent in listening to addresses from the visitors, the members of the Board, and others. A feeling of great satisfaction was shown at the condition of the city schools and the determination to support them in a fitting manner noticed by the speakers.
The Government being about to move from the present departmental building to the parllament building now just completed, it is intended to aftord the Buard of Education and the Senate of the University accommodation in the vacated building. This will sup. ply a long felt want, the present offices being quite inconveniently situated, besides being poorly arranged. The proposed arrangement will also place a suitable room for the reception of the University hbrary, the bequest of the late A. K. Isbister.
The Premier, during his late visit to Ottawa in the interest of the Province, pressed strongly the necessity of the school landa being made moie immediately available for the support of new and strugghng districts, the present being the necasion when more apgreciable benefit cian be derived from the help this source of income can briug, than any other.
Rev. Prof. Hart, as one of the inspectors of high schools for the Province, visited lately tht Collegiate Department of the Portage Lai Prairie schow ife $x_{1}$ ressed himself as having bean gratified to tind a considerable m anber of students studying the subjects of that department, and giving evidence of the painstaking and successful instructions of their teacher, Mr. Houstou, B. A.-Manitoba Free P'ess.

## NOVA SCOTIA.

The Board of School Commissioners of the City of Halifax has adopted the following resolutions in respect to school privileges for colured children :

1. That a suitabie building of two departments fully equipped for school purposes be erected in a locality most central to the colored population of the city, to he used in lieu of Lockman street and Maynard street schools. 2. That the colored children properly graded, be admitted to said departments.
2. That any colored children who shall pass examination on the subjects of grade 7 in the prescribed course of study for common schools, shall bo admitted to any corresponding departments in the common schools, such examination to be conducted by the supervisior.
3. That any colored boy who shall pass the examination for the high school shall be admitted to the high school on the same conditions as other pupils.
4. That special attention be given in the colored schools to the subject of sewing for girls, and to the most practical teaching of school studies, such as book-keeping and the use of mechanical formulmand industriad drawiag.
The Board has also decided that the annual examination of the Common Schools be held on the 21st, 22nd, 23rd, 24th, and 25th of April, instead of being extended over the whole month of April and portions of June and July as in former years.

The Chronicle thus summarizes the Report of tho Supermendent of Education :

The rixth annmal report of tho Superintendent of Education was submitted to the legishature on Monday. It is gratifying to learn from it that the scoord for tho past year nhows in marked improvement in tho nttend. ancenad general working of our piblic schools. More money has been approprdathd for the erection of arw sehool buidngs than many pevions year, while as a gemeral thmg, better methols have lieen adopted fur impurtmg lustruction with sntisfictory results in a majority of cases l'e rhaps tho surest indication of increasing interext and a drsite to herurn the fallest henetits of our educational system is furnished by the fact that there las been a considemble advance in the avernce satarien pad to teachers of all grades. 's tho mecesuly of making the profession ay remuncrative as its high character and important funct ons deservo has hern too frequently ovolooked hitherts. It is therefore a hopolal sign to find the peoplo in different section* appreciatang in due measure the advantages of systematic training which have happily been placed within the reach of all. 'The very small number of sections without schools durng any portion of the year is unother encouraging feature.
The l'rovincal Normal School is reported as very officiently carrying out the oljects of the anstitution in giving a thorough training to those under its car.-. The faet is ev dont from the relatively larpe numher of gradintes who wero licensed last sammer. Of tho one handred and twenty-tive students enrolled in the Normal School, Colehester furnished
 Gitysboro 5, Digles 3, Qucens 3, Inverness 3, Yarmonth 2, Vichria 2,
 anarded, muludng three of grado sujerior, forts-four of good and thintsfive of farr.
"County Academies," the report says, "wero in operation during the jear 14 all the counties not having specinal academies with n ther limits. The $\mathrm{l}_{\mathrm{g}} \mathrm{gh}$ school department of the model schools at 'Truro is conducted as a county academy for the County of Colchester. 'The aondemic department of St. Francis Xivier College, in which a very excellent class of work is done, continues to sustain by arrangement with the public school trustees a similar relation to the County of Autironish." In this connec. tron the Superintendent refers to a plan formerly submitted by himseli for the reconstruction of the present system of academic education. He gives it as his opinion, which will doubtless bo shared in by many nthers, that decisive steps should at once be taken to secure for the grants' that branch a more judicious and equitable distribution than is obtained under the prevailing method.

The reports of the Inspectors for the various districts are as full ns usual. They speak, on the whole, very favorably of improvements which have becn effected and suggestions which are being acted upon by the people for the advancement of their educational interests. Yet it is also quite evident that much remains yet to bo dono. There are prejudices, as well as indifference, to be overcomo in many places before real progress can be leoked for. I: appeary that tho Act making attendance at school compulsory, in such scetions as choose to sdopt it, has not received the attention which it would seem to merit. It is somen hat remarkable that reference is made to that subject by six Inspectors only and they givo it very brief mention. They state that the new law has been ndopted in quite a number of sections under their jurisdiction, and that a fair test will be fiven to its practicability. While it is not dunbted that wherever its prosistons aro fully understood and properly applied, the resuits will be inrgely beneficial, it is as jet too early to syeak with any certainty as to its present working.
D. A. Murray of the Graduating class of Dalhousie, has been chosen to fill the post of classical instructor in the Dartmouth Hıh School. Mr. Murray holds a Grade A Provincial License, and in 1882 was a Senjor Munro bursary is: Dalhousia College, which he has held for the past two years.

The next ensuing session of the Teachers' Association of Inspectoral District No. 4 (Counties of Amapolis and Digby) is to be held at Bridgetown, Anuapolis County, on the 1st and 2nd of May.

Over-examination and over-inspection are among the most deadly evil ${ }^{8}$ of the present day. The fussy olfciuls, who are aever content to let thing Go on at their natural pace, but who are continually puling up the conn to sec how it is growing, are the evil spirits of the education:al word. Supervicion is one thing but the modern species of contimual distrust is quite another. It is n:o new thing to say no in our own columns, but the truth is not always thrust so plainly before the public as it ought to be. It is not the teaclier only who suffers by this contiunal inroad of the many-headed interferers with the uati:ail progress of the school ; but the public also are affected by the arts which aro the accompuniment in regard to the instruc. ton of the young.-Schoolmaster.
A Neono's Prayen-A teacher in one of the colored schools at the South was about to go avay for a session, and an old negro poured out for her the following fervent petitions: "Go afore her as a leadin' light, an' behind her as a protectin' angel. Roughshod her feet wid be priparution ob de Gospel o peace. Nail her car to the Gospel pole. Gib her de oye ob de eaple dat she spy out sin far off. Wax her hand to do Gospel jlow. Tie her tongue to do line ob truf. Keep her feet in de anrier way and her ronl in do channel ob faith. Bow her head low beneaf her knees, an' heer knees way down in somo lonesomo valley whero prayer and. .upplication is much wanted to bo made. Hedge and ditch 'bout her, good Lord, an' keep her in the straight and narrer way that leads to heaven."-Ex.

## ghaidiags and gaccitations.

## A GREAT INHERITANCE.

Let tho boys remember that this great world, with all its wealth and woo, with all its mincs and muuntains, its oceans, seas, and rivers, with all its shipping, its ateanbuats, railroads, and magnetic telegraphs, with all its millions of men, and all the science and progress of ages, will be given over to them-boys now assembled in school-rooms, or playing without them, on buth sides of the Athatic, will soon control them all. Let them liok abroad upon the inheritance, and get ready to enter upon its possession. The kings, presidents, governors, statesmen, philosophers, ministers, teachers of the future, are all boys.

Boys, be making ready to act well your part. Become good scholars. Read only what is instructive. Spend no time with trashy norols. Study science and government, and the history of the world. Study arriculture and mechanism. Become as nearly as possible porfect in the nccupation you may chpose. Learn prudence and self-control. Havo great decision of character. Take the Biblo for your guide. Become familiar with its teachings, und observe them. Scek wisdom and prosperity from your licavenly Father. As you grow in stature, in boduly strength, and in years, grow in piety, in intelligence, in caution, in activity, in frimness, and in charity. Aspire to be men of the nobleat character. Cherish the feeling that you ivere born to receive good and to do good. Be manly in spirit and in action.

## NEVER SAY FAIL.

In life's rosy morning, In manhood's firm pride, Let this be your motto, Your footsteps to guide ; In storms and in sumbline, Whatever assail, We'll onward and conquer, And never say fail!

## WHAT BOYS ARE WANTED.

Boys of spirit, , boys of will, Boys of muscle, brain, and power, Fit to cope with uny thing; These are wanted crery hour.

Not the weak and whining drones, That all trouble magnifyNot the watchword of "I can't," But the noble one, "I'll try."

Do whate'er you have to do With a true and earnest zeal ; Bend your sinews to the task; Put your shoulder to the wheel.

Though your duty may be hard, Look not on it as an ill; If it be an honest task, Do it with au honest will.

At the anvil, on the farm. Wheresocver you may be, From your future efforts, boys, Comes a nation's destiny.

## TWO WAYS.

Where two ways meet the children stand, A fair broad roal on either hand; One leads to Right, and one to Wrong, So runs the song.

Which will yon choose, cach lass and lad The right or left, the good or bad ? One leads to Right, and one to Wrong,

So runs the song.

## THE LIGHT-HOUSE.

High o'er the black-backel Skerries, and far To tho westward hills and the cistward sea, I shift my light like a twinkling star,
With ever a star's sweet constancy.
They wat for me when the night comes down, And the slow sun falls in his deati divine,
Them braving the black night's gathering, frown, Wita ruby and diamund blaze-I shine!
There is war at my feet where the black rocks break, The thinmerous snows of the rising sera;
There is peace above when the stars are awne, Keeping thear matht-long wateh with the
I care not a jot for the roar of the surge, The wrath is the sea's-the victory mino 1
As oner its breath to the furthent verge, Unwasermg and untired-I shino?
First on my lirow comes the pearly light. Dimming my lamp tu the new. hora day, One lungt lust louk to the left and right, And Irest from my toll-for the hroad sca-way Grins inight with the smile and blush of the sliy sill meamiesent and opalme.
I rest but the lor hest day will deAgain in its last wan shadows-I shine !
When the night is black, and the wime is loud, And daיger is hidden, and peril abnoad,
The seama. icaps on the swaying shroud; His eye is on me, and his hope in Gom.
Alone in the daykness, my bluod-red eye Merts his, and he hauls his gropurg lue.
"A poiat to nor'ard!" I hear ham cry; He goes with a blessing, and still-i slame:

## While standing alnuc in the summer sun

 Sumetmes I have visions and dreams of my own, Of long-hfe veyagry just begun, And socks umoticed, and shoals unknown; And I would that men and women would mark The duty done by this lamp of mine; For many a hife is lost in the dark, And few on ear th are the lights that shine :-e ood Words.How Mnzart Dien-Woffang Mezart, the grand composer, deed at
 shane of has death. Hiv sweetest somi' waw the lant hu sumb-tide "Heques.." Hie tad heen employed on than exquiste pisere fur soceral weehs,



 the light fontstegs of his daughter awo,ke ham. "Come hither," said he, "my Emalie Mr ta-k in dour, my 'Reyut mo is thanthed." "Say not so, dear father," sad the pentl. girl, interrupting ham, whit tears m her eyes: "you must be hetter-yon thok hinter, for cren how yur cheek has a klow on't. I am sume we shall turse you well arain-let me briug you s me thing refreshans." "Do not decelde yourcels, my love," said the dymg father, "thas wasted form can never he restored by human uid. From heaven's mercy alone do 1 look for help in thas me dying hour You rinke
 prno hert- sing with them the hymu of gour sumted mother-let me once more hear thase tones whirh have been bo lunt my solace and dehght." Ematie oleyed, and with a vorce enrit hed wath the ienuterest emotion, sang the following stanzas.
"Sparit! thy labor is o ocer,
Thy irm of probation is inn,
Thy steps are anon bound for the matrodden shore,
And the race of ammortals begun.
'pirit' look not en the strife
Or the pleacures of earth wath regret-
Pause not at the thershold of limitlesa life,
'I'o moun for the day that is set.
$S_{l}$ irit! no fetters can bud,
No wirked hive puwer ho molest,
There the weary, liko thre-the wrett licd shall find
A heaven, a mansion of rest.
Spirit? huw bright is the road
Ior "hich thou art hull outhe wing,
Thy home it will he, with thy bavour and cuod,
Their lind hallejujah to sheg.
As sbe concluded, she dwelt for a mumesit upon the low melancholy notes
 approving smate of her tather. It was the still und passivaless smile wheh the rapt and joyous spart left-with tho seal of death-upon those leatures.

## Trachers' Associations.

The publlshers of the JO TRNAL will bo obllged to Inspectors and Secrotaries of roachers' Assoclations if they will yond for publication pregramenes of mootmgs to be held, and brlef accounts o moetings hold.
City of Tonosto. -The semi-anmal meeting of tho Toronto Teachers' Association, was held lebruary 29th, in the scheol-roum of the Carlton-xtreet Primitivo Methodist Church. The Presulent. Mr. Samued AteAlhater, vecupied the chatr, Nearly all the teachers of the varions city schools were present, and tho preseace of one or two members of the Public School Board was also nuticeable. At the conclusion of tho teachers' roll call, acommenication was read fiom the Women's Christran 'emperance Thion requasting that temperance text looks be brought before the pupils of the P'ibhe Schools: also offerung the eeverces of Mrs. Alary Hunter, of the National Wivnen's Cemperance Assomation of Massachusetts, to lecture on scientific temperance mutruction for tho benelat of the pupils. This matter was left to a committee composed of Messrs. Den. Clarke, and W. J. Hemiry to deal with. and report on. Owng to the illness of Mr. A. F. Macilouald, who was to have addiessell the teachers on the sulject of mental arthmethe, Mr. J. L. Hughes toak his phace, and in a sery able manner suggested tho best methods of mstruction in this particular beanch of stuhty. A vocal quartette was next given by four members of the assoctation, who rembered the prece entited "How Fair the Mniden" with markell ability. After recess Miss A. Freeman spoke on the subject of "How to direct the private reading of seholars," and was fulluwed by Mr. Hughes who, in a lengthy and most masterly manuer, showed the advantages accruing from "object lessons," illustrating his inleas by means of leaves destrtbuted amung the tear hers. Mfr. J. A. Wismer then took up the sulyect of "The teaching of hygienc," a class of boys fiom twe Victuria.sticet school beng in attendance. Another quartette ("Evenng Bells") then followed by members of the assoc ation. At its conelusurn Mr. J. Borddy presented his report to the Inspector, which was the cause of a leugthy altseussion. The flea in view is to secure unifurm moathly reports irom the different selools to the Inspector: Business was sesumed Saturday mormug at ! o'dock, with the President, Mr. S. Nealhster, in the charr. After roll call tho election of ofticers took place, whelh iesulted in the reelection of Mr. S MeAllister as President (Mr. J. L. Hughes having requestel his name to be withelinwn); Vice. Pı estuent, Mr. Doan ; Secretary, Mr. R. MeCansland. Executivo Committee-Messrs. J. L. Hughes (er-offirio). W. J. Hendry, Cassidy. Melsuchren, Mrs. Arthurs, and Misy Williams. The Treasurer submitted his report for the past year which shows a credis balance of $\$ 171.5 \mathbf{3}$. The report was recerced and adopted. Mr. Doan, in behalf of the Cummitee apponited on Friday to deal with the communication recencal from the Women's Christam Temperance Union maefenence to placing temperance text books more prominently hefore the sehulars, reported that at was desrable, m view of the enormons amount of esil caused by memperance, that specual attention shonld be directed to the matter of temperancem comection with the study of hygiene in cur public echools, anh that an mproved text look on temperance lie asked for liy the teachers, and als's that should the Committee on Scientific 'Temperance Instruction, decule to send Mrs. Mary Hunter to lecture in this city, the members of thas association will assist her to the uthost in there power. Tho report was unamimously aslopted. The committee, to whom was referred the considecation of Mr. Mryant's reconmendation in has paper, read last year befure the Ontario 'Teachers' Association, that a Clicf Superintendent of Elucation amla Cumeil of Public Instruction mastead ot a Muster of Educ.tion should be appointed, reporterl;-That m the opmon of the committee it is inalvisable that any change le made in the way of directmg the educational affairs of the Pionace by the appomement of a Chef Superintendent and a Comeil of puble Instracnon $m$ heu of a Minister of Eiducation. The commitec reconmend that the delegates of the Untario Teachers' Association do support thas resolut:on slould the matter be introduced at the meeting of the proyncial A:sociation. Ar. Boddy moved in amendment seconded by Mr. Cranc, that $1 n$ the opmon of this association, a Chief Superintendent and a Counch of Public Instruction wonli best serve the interests of education in tha Pronnce. A protracted discussion ensued. in wheh Mr. Bodily strongly opposed the adoption of the report, calling attention to the fact that political influcuce might be used in granting certficates to t:achers. Mr. Voan replied that while the conmittee hughy apprectased the manner in which Mr. Bryant had treated the subject, yut he thought that the gentleman who was now at the hearl of the Education Department, and who had hall experience in the work, having commenced at the font and having worked himself up to the highest pinnacle of the ellucational ladder, should have a seat in the Legrslative Assembly and hasing won the confidence of all interested in schoul work they showhd retam the present system and give it a farr tral. After some further discussion the amendment was lost and the repoitadopted thy a laige majority. The learty thanks of the association was tendered to Mr. J. T. silater for having engrossed a copy of a resolution passed by the association on the departure of the Rev. Dr. King from the city.

On motion of Mr. Mughes, seconded lyy Mr. Doan, it was decided to devote one day of the associntion's work during the last half of the present vear to the meetings of tho sevornl grales indepenilently, and that the Exxceutive Cumnittec lie instructed to take steps to carry this resolunon mito effect in the soveral schools for the purpose of observing the practical work of tho schoolroon. After some unimportant work had been disposed of, the singing of the National Anthem brought the meeting to a close.
The conversazione of tho Association whs held in tho Normal School buililings on tho succeding Friday ovening and proved an uncqualled success in overy respect. The musoum and halls were thrown open fur tho40 who wished to promenade to some excellent orchestral music, while in the theatre the attractions were so interesting that twere was harilly a vacant sent to bo found after the entertainment commenced. Hon. G. W. Ross, Minister of Education, presided, amid there was present on the platform Principal Caven, Mr. Hallam, anl Mr. MeAllister. President of tho Associntion. Hon. Mr. Ross gave anl address, which partook more of the character of a friendly talk with the teachers than of a prepared speech, and which was the proncipal feature of the ovening. In the c urso of his remarks he said that a teacher must keep his mind in training by frequent reference to joun , etc. He shonld real books of travels, etc.. in order that he mand become posted in other conntrics, and be able to make the lessons move intereating. He would have to arlapt himself to the idosyucrasics and indivilunlities of scholnrs, and for this he should try to broaden his literary horizon. The musical portion of the programme was nbly supportel by Misses Maggie Batr and Agnes Corlett and Messrs. Schuchand Hurst. Prof. Bohner presided at the piano.
Atecma. - The semi-annual meeting of the Algoma Teachers. Association was hold in Manitowaning, on Thursday and Friday, 28th and :0th Felruary, and although the weather was anything lut propitious, quite a number found their way to the Convention, and a very pleasant and profitable time was spent. After calling the mecting to order, the President, Mr. G. F. Payne, delivered an excellent address, which contained some very original and striking remarks upon "School Books, what they are, and what they should be." After routine business was disposed of, the Librarian read his report. which shows clearly that the library is anpreciated by teachers from all parts of the district. This was followed loy a well prepared paper on "School discipline," by Miss Munron, which treated tho subject very exhaustively. Mr. Thos. Flesher then reall a very interesting paper on "Why the Teacher's Business is Desirable," after which the "Yermanency of the Teacher" was discussed. A well prepared and vary interesting paprr on "How to Teach Geography" was read by Mr. Thos. Sims. which was followed by a paper on "Proper Method of Questioning and Answering." by E. J. J. Ferguson. The offirprs for the next year are:-G. F. Payue, President, Thos. Sims, Vice.President, E. J. J. Ferguson, Secy. Treas., T. Flesher, Librarian, Misses Prntland and Flesher, Auditors. Mr. Payne was appointed a Delegate to the Provincial Convention. Messrs. Brown and Cole wero made Honorary members, and as hoth are men of practical ability the association will no doubt ho benefited by thoir inembership. This Association is stradily progressing, having risen from a state of almost insolvency to a flourishing institute with a good lihrory and a surplus in the treasury. The next merting will be held at Gore Bay, at sush time as the Inspector may be able to attend.
E. J. J. Fergoson, Sec.-Treas., Mfaninganing.

East Middlesex. - The meeting of the association was held in London, on M.arch 1st, at 10 oonck a. in., President Dearness in the chair. There were over eighty teachers present. The secretary read a communcation from Miss A. Orchard, secretary of the Women's Christian Temprance Union of Ontario, memorializing the assaciation to co-oper ate with them in urging the intioduction of scientific temperance instruction into the public schools of the Province. After some remarks in praise of the movement, Mr. McQucen moved, secouded by Mr. N. Jarvis, that the secretary be instructed to reply, expressing tine sympathy of this association in the said work and informing them that in this inspectorate temperance and hygiene have been placed on the curriculum of studies in thé public schools and is tanght in the majority of them. Mr. Jarvis gave an illustrative and amusing address on "Venecring in Tcaching." He would divide the subject into two classes, legitimate and illegitimate. Ho illustrated the latter, and applied it to teaching. He thought it wroug to cripple the minds of youth hy stor ing thein with useless knowledge for the purpose of making a show. Mr. Smith tonk up the subject of "Literature." Ho would cultivate an insatiate desire to know. He would endeavor to have pupils learn the author from his work. Reproluction, was of great value. The early introluction of literature would decrease the labor, in other subjects, as it, correctly tanght, would increase the vocabulary of the child. Discussed hy Messrs. Liddicoatt, J. McLaughlin. and R. M. Graham. M, ved by Mr. R. Walker, seconded by: Mr. Smith, that our thanks be expresoce to those who took part in the programme on Friday evening aud to Mr. Colwill for use of organ. Carried. In the afternoon,. Mr:

Liddicoatt took up the subject of assigning a lesson in history. He would assign a lesson, always keeping in view the idea that by laying a platfrm the pupils had, as it were, guiding lines for their own read-

The details could then be gradually added. It was a well-worded and instructive address, exemplified ly means of the blackboard. Mr. Dearness solved a nunber of typical questions in arithmetic. The Nominating Committec appointed hy the President, reported the following officers had been chosen :-Yresilent, Jolin Dearness ; 1st Vice., W. H. Ludlicontt; 2nil Vice. Aliss Famic Gecson ; Secretary, A. McQueen; Treasurer, W. D. Eckert ; Librarian, Wm. Bell. Nioved by Mr. Grahain, scconded by Mr. W. F. May, that the report be adopted. Carried. Moved by Mr. Liddicoatt, secomled hy Mr. Kerr, that in future the meatings of the association be held on Thursiny and Friday instead of Friday and Saturday. Carried. Moved hy Mr. McQueen, seconded by Mr. Jarsis, that the Management Committee have power to communicate with West Midllesex 'Ceachers' Association for the purpose of amalgamating with them in conducting promotion examinations. Carried, Movel by Mr. Harlton, secomled by Mr. Walker, that the Management Committeo havo power to settle accounts contracted at this meeting. Carrici. The first question frum the guestion-drawer was taken up by Mr. Harlton: "A large boy prompted a small one to commit an offence. I punished both alike. The parents of the large boy are very angry, that their son was punished. How should I have neted in the cases !" Mr. Harlton thought it was justitiable to punish both. Votes of thanks were passed to the press and County Council. The association then adjourned.

Stommont. -The usual half-yearly meoting of the Stormont Teachers' Association was held ju the high school building, Cornwall, on the 7th and 8th February. The president, Mr. MeNaughton, I. P. S., in his opening address, gave the te.chers some useful information regariling the recent uniform promotion examination. The following important notion was passed at the commencement of the meeting: Moved by James Smith, B.A., seconled by Mr. R. B. Carman, that "No amendment or alteration of the constitation of this Teachers' Association shall be made, unless notice of sail amendment shall have been given at one regular meeting of the association, and voted upon and passed by a two thixds majoity of the members present, at the next following regular meeting." The election of officers for the current year resulted as follows : Mr. Smith, President; Miss Carpenter, Vice-President; Geo. Bigelow, Sec.-Treas. ; Messrs. McNaughton, Relyca, Talbot, Miss Loucks, and Mrs. McLeol, Committee of Ma agement. Messrs. Carman and Talbot were appointed auditors, and their report showed a balance in favor of the Assuciation of \$i0.08: adopted. Mr. Talbot was appointed delegate to the Provincial Association, necessary expenses to be paid out of the funds of the suciety. The question of text-books was laid over until the next meeting, to be held in Cornwall, on the 2nd and 3rd October of the present year. Mr. Harrington introducel the subject, "Minister of Eillucation versus Chief Superintentent"一an interesting paper, ani a lively discussion of the matter resulted in the passing of the following resolution:-Moved by M. F. Harrington, seconded by Judge Carman, that "It is the opinion of this Association that the Minjster of Education should be retained, but that a change should be made in the Central Committee so as to give greater represen. tation to the public school teachers and inspectors." Mr. Bissett gare a paper replete sith useful instruct.on as to the teaching of geography, especially to junior classes, calling attention to the several important topics in connfction with it,-object lessons; the development and expression of itleas; local geography; natural scenery; the carilinal points. constant reviews; the use of maps; the orider of topics; etc. Mr. Smith dealt with "Entrance examinations" in such a manner as to make those intcrested feel grateful that their teaching processes were conducted under auspices so favorable. The adiantages of the present system were made apparent by contrast with the past. The following points of excellence were emphasized : Elucationally they have improved our public schools and laid a better foundation for higher education. Financially, they provent the crowding of unprepared pupils into schools for the sake of the increased grant; and socially, they prevent the high schools from being utilized as fashionable resorts for the upper and wealthier classes. Mr. Carman strongly advised the teachers to send their pupils to Cornwall High School En. trance Examinations. A very inportant action was taken with regaid to the Temperance Question, ani perhaps the best part of the work of the present session way dono whea this subject was under cousideration. Surely there is hope for the country when the educators of youth give no uncertain sound upon this most important topic of the day. The eloquence of Judge Carman was never used to better purpose than in advocatiug the introduction of a Tempernne Text-hook into the public schools. We are encouraged to look forward to a time when humanity's progress towards its ideal will be unimpeded by the terrible evils condensel in the worl intemperance. A petition issued by the Women's Temperance Union was introduced by Mrs. (Julge) Pringle, asking the Minister of Elucation to anthorize for teaching purposes a book setting forth the effects of alcohol upon the human system. The petition was signed by all the members present. The tesching of thistory in the
public schools was explained by Mr. Somerville and very important illeas as to the lest methods were ailvanced. A point strongly emphasized hy the speaker was, "the teacher is the living text-book." Practical discussion followed the readins of this interesting paper. Mr. 'Talhot next farared the meeting with his methot of teaching fourth Book Literature. This subject, like the others, materwent a thorough analyess. Cruticixms atul opinions were freely expressed and doubtless some were benefited therebs Mr MeNaughtonstrongly recommended the teachug of drawing. "Very profitable inlee l" was the verdict of all who were privilered to be present at the fourteenth mecting of the Association. Gzonge: Breztow, Secrotary.

## REVIEWS.

The Making of Exglanid: By John Richard Green, M.A. With Maps, Svo., pp., xx, 434, ミ2.50. Harper and Brotiers, N. Y.
The Cunqurst of England: By Joha Richarl Green M.A., LLD. With full Portrait and Maps. Svo., pp. xxvii, 607, $\$ 2.50$. Harper and Brolhers, N. Y.

These are the latest works of o.e who has won a high, if not the highest, place among Faglish Historians. Of the historian, Frecman says : " Nowhere does Mr. Green's power of painting and marrative come out in greater fullicss than in the carlicr part of the 'Makiug of England.' Mr. Green keeps his streagth mabated to the end." Under the clearer light which the author throws upon the carlicr period of English History, oue may "sec that the alvance of the invaders and the struggles of the Heptarchy"were not mere " lattles of kites and crows," but "the birth-throes of our national life." The work is the most interesting that has ever been producel on the period of Fing. History of which it treats, and shows throughout all the author's fascinating charms of style.
The Conquest of Englumd contains passages as brilliant as anything Mr. Green ever wrote. The stary of the conquest is told with his uxual graphic force: and the work must prove of grcat value to all students of this part of Euglish Eistory and will he especially suited to those-mind they are the many-who can never find time to grapple with the voluminous work of Freeman.
Green's Historical works shonh be in every schoc: library in the Dominion, and Harpers' is probably the handsomest edition yet published.
A Stisten of Rhitoric: Br C. W. Banmeen. 12mo, pp. cxi, Git, \$1.j0. Nem Yord, A. S. Barnes di Co. (Juel pulh isited.)

This work is a anew departure on the subiject of which it trents-and a departure, we venture to say, in the direction of the useful and practical. It is divided into six parts, treating respectively of Scn-tence-fnaking, Conversation, Letter-writug, The Essay, The Oration, and The Poem. Each of these subjects is treated with considerable fulness, and always in an eminently intercating and suggestive manner. In designating the work as "practical," we do not mean that it ignores principles, but that its explicit statements of principles are accompaniced and coforced hy striking and interesting exanples. There is great

- Force, as crery teacher linows, in an apposite "xample, and it is not too much to say that wit and waslom have leent culled from a wide field of Enghish literature to illustrate thr rales and principles given in several part: of the work. The book is writhen from the estand-point of one whose daily work it has been for some years to read and select and pulinsh manuscrapts, who knous from experaence the aetual difficultics and fantes of young writers and who would jike to help them." So says the anthor; and from a carciul cxamination of his hook, wie believe that his is an inte'ligent experimoer, and have not the slightest doulte that he has succeceded in his handable madertaking "to help" the youms student to a mastrys of has mother tongur. We heartily recommend this worl to every teacher ami stuitent of English.
A Bhef Mintmiy of Ancipat, Mamevat, snt Monems Peorles, with some ascount of their Monuments, Instututions, Arts, Manners, and Custanns, i:mo, pp. xxvi, coo. A. S. Barnes ic Co., Nero York.
This is one of lkarnes's " Bricf History Serics," which las met with general approval among teachers in the United States, and to which we callenl attention in our columss some time ago. "In this work the political history, which ocenpirs most, if not all, of the orlinary schooltext, is condensed to the salient and cessential facts, in order to gite room for some aecount of the literaiure, religion, architecture, char acter and habits of the different nations. Surely it in as important to
know something about Plato as all ahou. Cacsar, to learn how the ancients wrote their books as how they fought their battles; and to study the virtnes of the old Germans and the origin of our customa in English home-life, as to trace the squabhes of Alexaminr's successora or tho intricaciey of the wars of the Roses. From this may be inforred the gencral plan of a work which must prove very useful to teachers amd students. No intelligent teacher canafforl to be ignorant of the matter which this book contaius, yet few teachers and still fower pupils can afford the time to wade through the ponderous terms whence such matter has to be gathered. The value of the work is much increased lyy the numerons dates in parentheses, the black-loard aualysis, the pronmeiation of the mames in the Index, the Guncalogical Tables, the Novel Historical Recreations in the Appendix, and especially the choice Reuding References at the close of each general sulject. The teacher as well as the gencral reader will find this Brief History a multum in parto. We recommend our readers to send for catalogues of A. S. Barues \& Company's excellent school publi. cations.
The Pomils' Companios : C. W. Hagar, 697 Broadeay. Nezo York. This is ${ }^{\circ}$ just the thing required for supplementiry reading in our schools. The selpctions are amusing, entertaining, and instructive. Coming wekly it supplies pienty of fresh and healthy reading, such as hoys and girls delight in, and is well calculated to foster a taste for good literature. Every teacher should get specimen copies and en: deavor to get his pupils to subscribe for the Companion which is only seventy-five cents a ycar.
Wemster's Usanmideeio Dictionary. New Edition with Enlarged Supplement and Reference Index. G. d. C. Merriam \& Co., Sprinafield, Mase.

We welcome cordially an old, ralued, and time-honored friend, enlarged in size, ipproved in appearance, extended in usefulness, and of considerably increasel intrinsic worth. The "Unahrilged Woister" fully keeps pace with the times. The bolly of the work remains almost unchanged, but there is a supplement of betwren four and firo thousund new worls, or new important meanings of old ones. A specially goorl feature has also been adiled to the Appendix, namely, a liographical Dictionary which contaius nearly ten thousand names of important personages, ancient and modern, giviug the pronuncintion of the mame, the nationality, profersion, date of lirth, and (where deceased) death of cach. The regalar Dictionary gives the definitions with all relative information, of over 115,000 worls, forming an Encycloperdia of knowledge of the greatest possible utility. The work has alrut 3,000 pictorial illustrations which radily convey intelligent description throush the eye, and there are also four colorell plates that are hoth useful aml attractive. The Vocalnulary of Fictitions Persont aud Places (those that are often referned to in literature and conversation, such as the claracters and places mentioned in the works of Dickens, Scott, Slakeepcare, cte, locating aud describing rach) is a special feature in this remarkable work, and a most valualike one for handy reference. As remards the raried and instructive information which aloounds vithin this ample and portly quarto volume of acarly 2000 pages, it seems in this shape like a vast litcrary store-honse where knowledge is haid out th the viers in regular order, so that then consulter can, in a moment, reach and obtain a conlensed yet exhaustire supply of the choicest and best. Quick anil ready recerence is securd by means of a uspful anil ingenions device called Denison's Patent Refercuer Index, wherely the part required to be opeuxd at can bo fonnd instantancously by a moveuent of the finger. This pew mechanical feature is certainly a vast improvement.
As a rule a Dictionary is a diry look, not often need-at least, not as often $2 s$ it noels to lie-hane no one could 60 through wren one page of the "Unalridged Welister" without freling his mind refreshed by the perasil. For the student, the professional man, tho tencher, the school, the family-in fact, for cvery one who cares to add to his store of knowinige-we consider this splentid work cminently suited, and, as an inrestment, it is one that re-pags a hundred-fold the cost of it.

Wentworth and Hill's Examisatton Manvals. No. 1, Aehti-

Thesc handy little rolnmes contzin alront :00 examination papera cach and are in mamy respects snitell for testing pupils and reviewing the subjrets. They supply a freshl list of questions taken from kuglish, Frenels zud German sources, and are not too difficult. The answers are printed separately and may be had on application to the publishers For Entranec and Intermediate work they supply an -cxoellent praxis of abont 150 pages cach.

