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## CANADA SCHOOL JOURNAL HAS RECEIVED

An Honorable Nention at Paris Pxhibition, 1875. Recommenied by the Minister of Elucation for Ontario. Recommended by the Conncil of rablic Instruetun, Quebec. Recommended by Chief Superintendent of Education, Dieso Brunscrick. Recommended by Chief Superintendent of Bducation, Nora Scutia.
Recommented ' hurf Superintendent of Kducation, Brutsh Col:mbia. Recommendel. . Chief Superintendent of E'ducation, Jfanitoba.
iremon .. By the Chirf Superintendent of Edecation, P. E. Itland.

The Publishers frequently recolve letters from their friends complaining of the non-recelpt of the JOURNAL. In explanation they would wite, as subscriptions are necessarily payable in advance, the mailing clerks havo instructions to discontinue the paper when a subscription expires. The clerks are, of course, unable to make any distinction in a list containing namos from all parts of the United States and Canada.

## NONICE TO SUBSORIBERS.

In $\begin{aligned} \\ \text { iow }\end{aligned}$ of tho "Canaia School Journal" boing pablishod as a rookly panor on and aftor January 1st, 1835, wo havo decided to accopt no moro sabseriptions at tho old rate of ono dollar. Thoso whose namas aro thon on our mailing list will bo suppliod with tho "Wookly Jourmal" in Hou of tho Month!y without additional chargo until tho oxpiration of their:-bseription. Seo our torms for tho Wookly "Canzda School Journal."

THE SUPERANNUATION FUND.
One of the moit important educational questions to be su b mitted to Parliament will be the future of the Teachers' Superannuation Fund. It has been currently reported that important chanjes are to be made, and it is said that in some respects these chanjes will not $b=$ in the interests of the teaching profession. We are not in a pozition to state what the Minister of Education intends to do in regard to this question, but we have reason to believe that the following are among the proposals likely to be sub nitted to the Legislature:
I. That no payments towards the Superannuation Fund be allowed in future.
2. That teachers shall not be allowed in future to pay arrears for the time they taught before 1871 .

These questions are of great impurtance to thuse teachers who intend to devote their lives to teathing. If the teachers themselves acknowledge by their indifference that they are not
anxious for the continued existence of the fund, our representatives in Parliament may well be excused for doing away with a large annual expenditure in favor of those who have grown old or who have become physically disabled in the profession. We are of opinion that a provident fund should be continued. We do not like the word "superannuation": it savors of charity. It is surely possible to establish such a fund on an equitable basis. There are three fundamental principles which should be incorporated among the rules for maintaining this fund:
r. The Government should make an annual grant in its favor, based on the actual number of teachers engaged in the province.
2. All teachers, male and female, should pay a minimum sum of say four dollars per annum.
3. Teachers should be allowed to pay more than four dollars each year within certain limitations.

The principle of Government aid has already been granted. The plan proposed would make it as ::early as possible a fixed rather than a variable amount. This would relieve the Government from any fears regarding the possible increase of the demands of the fund to an alarming extent, and it would also enable the teachers to calculate accurately the amount which they would fairly be entitled to receive.

The payment of four dollars per annum by all teachers would simply be a tax or fee connected with the position of a teacher. It would not be unfair to female teachers, as they would, if they continued in the profession, be entitled to the benefits of the fund. It must also be remembered that the very large number of female teachers entering the profession and offering to teach at such low rates, must reduce the salaries of male teachers, and thus prevent their making proper provision for the future. As a larger percentage of women than of men leave the profession, the payments by all teachers would be to the advantage of the fund.

The principle of allowing the payment of more than four dollars per annum by those who wish to provide more fully for therr declining years or for ill health seems to be perfectly just. It would induce a habit of thrift and relieve the teachers from all andiety incident to the investment of their surplus funds in the ordinary securities. A man would feel safe when he had the Government for his bankers.

With regard to the payment of arrears before 1871, we hold that it would be a gross breach of faith for the Government to withdraw the privilege without giving due notice of their intention to do so.

We urge teachers in convention and in other ways to make themselves heard, and to endeavor to secure what they believe to be their rights, and we will be glad to receive for publication in the Journal short communications bearing on any phase of the question.
S. D. POPE, EsQ.
chief superintendent of education, british columbia.
It gives us pleasure to observe that another Ontario teacher has made his mark abroad-this time in the person of Mr. S. D. Pope, n'o has latcly been appointed Chicf Superintendent of Education $\mathrm{fc}+$ British Columbia.

Mr. Pope i. a maive of Ontario, having been born in the county of Hastings in 1843 . He graduated at Queen's, by special dispensation, at the very early age of eighteen, after a brilliant university career, and was styled "The Boy Bachelor."

After some solicitation on the part of the trustees, he accepted the headmastership of what was then called the United Grammar and Common Schools of Stirling, Ont, which position he filled with much acceptance for three years, when he became desirous of seeing the Far West. Resigning the situawon, he finally settled in Oregon, where he married. Here he remained for twelve years, after which he removed to his adopted province.

It could not be expected that the highest positions would open to him at sight, and the reverse was the case; but while the discouragements were many, as is the case in every new country, and facilities for enjoyment and comfort few, yet that same determined perseverence that was evinced during his university course corried him on, and in the short space of eight years we find him at the head of the educational affairs of our noble sister province.

In laying the foundation for a wise educational system he will have many difiticulies to contend against and numerous discouragements to meet, not to speak of numberless attacks by opponents of reform and advancement; but we trust that with a stout heart and strong hand, such as were displayed by our late lamented chief, Dr. Ryerson, whose fame is in even his enemits' mouths, the cause of education will continue to a dvance until British Columbia can boast of educational advantage: inferior to none in our fair Dominion.

We wish Mr. Pope continued success, and congratulate him on his well-deserved promotion to so distinguished a position. The field before him "is white unto the harvest," while the position is fregnant with responsibility, for the educational well-being of so great a count:y is no easy burden to bear.

## WOMEN IN UNIVERSITY COLLEGE.

The Educational Monthly evidently regards with a very unfaverable eye the admission of women to Toronto University College. Three female students and a matron are, according to the Monthly, all that the movement has to show for the dis. turbance created. Our contemporary is of course entitled to its own opinion as to the expediency of admitting women in the Provincial College, but there is no excuse for its misrepre sentation of the facts of the case. Instead of three there have been seven women in attendance during the greater part of the present term, and this number will be increased to at least eleven after the Christmas holidays. In view of the fact that the announcoment of the opening of the College to
women was made on the first of October, the first day of the session, the number of female students is surprisingly large.
Not less so is the high average of their academical standing. There are three in the fourth year, one taking the honor work in classics, and the other two in modern languages. There is one in the third year, taking the honor work in modern languages and mental and moral science. There is one in the second year, taxing honor work in natural science and in mental science, and of the two in the first year one takes honor work in mathematics and modern languages. Those coming in next term will probably keep up this high average. In point of fact, therefore, the women who have availed themselves of the advantages afforded by the changed, and now liberal policy of the Government and the College Council, are of a more than usually intellectual type, and their future standing will no doubt be such as to reffect credit on themselves, their sex, and the institution.
It is gratifying to be able to bear the most unreserved testimony to the perfectly unexceptionable conduct of the young men who have hitherto had a monopoly of University College. They have been quietly courteous and gentlemanly, as those who knew them best expected they would be, and there is not the slightest grouad for the fear that they will ever be anything else. If there were on the part of individuals here and there a disposition to act otherwise they would soon find themselves sharply dealt with by the sound public opinion of the students generally.

The Monthly seeks to create a prejudice agair $\boldsymbol{t}$ those young women who have sought for and obtained leave to attend lectures in University College, and urges the erection of a separate institution for such women as may desire a university training. To this latter proposal no one offers any objection, but under existing circumstances it is asking too much or women who are willing to attend the Provincial College to require them to wait for the establishment of one for their special use. Those who believe in such a college are at liberty to work work for it and wait for it. But while they areagitating for what they want they must be taught that peopleas intelligent and respectable as they are, are not to be sneered at with impunity because they choose to avail themselves of educational facilities already. in existence. It is safe to assert that if separate lectures were given to women in a separate college, few, if any, of those now in University College would go to hear them, on account of a very natural and probably well-founded impression that for university purposes the lectures delivered in University College were superior to those delivered anywhere else.

## THE SCHOOL LAW OF ONTARIO.

It was a matter of current report, when the health of the Hun. Adam Crocks gave way a few months ago, that he had fur some time been engaged at the task of consolidating the various Education Acts, probably with amendments. The last consolidation was made in 1877, when the general statutes of the Provincial Legislature revised. Since that time several changes have taken place in tree school law, and it would be of great convenience to the public if the Hon. G. W. Ross would
reיise the whole of the enactments, consolidate them with such new amendments as might be found expedient, and then give the public a rest for a few years in $t^{\text {th }}$, matter of educational changes. We have had too many of them altogether in the past. Better sometimes leave an obvious but insignificant defect unremoved than by fiequently tinkering at the law make it impossible for the great body of the public to know it, and thus render its administration uncertain and defective.
Thete are, however, some amendments to the Education Acts so obviously necessary in the public interest that every one who has paid any attention to their working can think of them for himself. One of these is the repeal of the well-known section which makes the amount of school expenditure discretionary to a large extent with municipal councils. This section should never have been enarted. Under the law as it was for a quarter of a century no wrong had ever been done, and great progress had been made in the material development of our public school system. It is safe to say that if the present objectionable restriction on the powers of school boards had always been in the Act, the Province would to-day be dotted over with school houses which, instead of a credit to the people would be a deep disgrace. There is no need for the restriction. Members of schoo! boards, elected for thi performance of specific duties in that capacity, are oetter judges of the amount the educational service of a $d^{\prime}$, trict should cost than are the members of a municipal council clected for other purposes altogether.

A change in the time and manner of electing public school trustees in towns and cities is also greatly nceded. At present they are chosen by wards, one trustee being elective for each ward each year. For this should be substituted the election of, say, one-third of the board each year by the vote of all the ratepayers in the municipality, giving each ratepayer as many votes as there are trustees to be elected, and allowing them to cast them all for one candidate, or divide them amongst several candidates at his own option. This is the plan adopted in the clection of the celebrated London School Board, the result being the most efficient administrative educational corporation in the world. Under the present system the calibre of the average school trustee is apt to be extremely small; under the London system the reverse is the case. It would be impossible under our ward arrangement to secure the election of eminent educa. tionists as members of school boards, and yet there should be some of them on these bodies it they can be induced to serve. In London it is a common thing to find men like Prof. Huxley chosen year after year by a more popular vote than our mode of election contemplates. The London School Board has always a few women amonyst its members. This is a most desirable arrangement so long as we have female ratepayers, female teachers, and female pupils. Under our system a woman might as well expect election to Pariament as clection to a school board.
Even if so fundamental a change does not commend itself to the minister he ought to change the date of the school election in towns and cities so as to enable the ratepayers to elect school trustecs on the same day as municipal councillors. With
the dates as now fixed the public cannot be induced to take any interest in the election of sch ool truitees. They will not turn out to vote after having voted so stort a time before. Let us, if, we can have no more, have at least the privilege of the ballot and the synchronizing of school and municipal elections ${ }^{\text {s }}$
Another change very urgently requred is in the composition and mode of appointment of high school boards in cities and towns separated from comaty municipalities. At present the Municipal Council appoints two trustees each year, the board being made up of six membirs. It would be much better to make high school trustees, like pudic schoo! trustecs, elective by the perple, but if this is not done the number should be increased where the population is large. There are always to be found on boards certain members who cannot be induced to take an active interest in the work of sehool management, and the present mode of appointment, coupled with the smallness of the number of members, is apt to throw the management into the hands of unworthy cliques. In a city of a handred thousand people a school bjard of six members appointed by the Municipal Council is utterly inadequate.
There are other matters that well deserve the Minister's attention, though we cannot discusi them fully here. The nequalities in the school burdens of ratepayers in large and small sections have long called for some remedy. The most effective one, apparently, is the formation of township school boards, and as this form of administration is very desirable on other grounds it would be well to inquire whether something cannot be done to secure a more general substitution of townships for sections of townihips as the school unit. Perhaps it may be found possible and advis. able also to legislate for the en ouragement of longer engagements between teachers and school boards, and for the erection in rural sections of residences for teachers. Any improvement that can be effected in either of these directions will te a boon to the teacher and tead to improve the working of the school system.

## NORMAL MUSIC COURSE.

In our last issue we noticed a few of the many faults to be . found with the First Reader. Our space this month permits of only a short notice of the Second Reader, but we shall again refer to it. This book is intended for advanced pupils attend. ing the Grammar Schools. How far it is suitable for such a class remains to be seen. Several of the objections urged against the First Reader lie equally against this.
I. The preface announces distinctly that the music of this book is all the product of Mr. Tuft's brain. However good it may be, it is fair to suppose that a collection of the gems of children's songs, selected from many writers, would be far preferable, not only as to intrinsic excellence, but in respect of interest and variety. It is always a valid objection to the exercises written by a teacher upon the blackboard that they are in his own peculiar style, and that the pupils are in too narrow limits if they are confined to them exclusively. How much stronger the objection, when an entire book, designed to cover five years of school life, is filled with the productions of one pen.
2. Frequent disregard of the laws of form in the construction of the exercises. See Exs. 9, 15, 75, 77, 121, 210, and

213 and others. This book is less fiulty in this respect than the first, however.
3. The early exercises wander too far from the fundamental harmonies and from natural progressions to be most largely useful in training the musical perceptions. There is an effort to bring in all kinds of progressions, whether they make sense or not.
4. There is here again a great quantity of very dry exercises without any very definite aim. For instance, pages 8, 9 , 20, and 11 are filled with short scraps of studs, in four kinds of time and a dozen forms of measure. The practical summing up of all this maturally to be looked for, appears on page 12, in one song in common time, "There was a piper had a cow"; and the succeeding pages are padded in the same way with quantitics of exercises that lead to nothing in particular.
5. The author tries to raise the wind again by printing his peculiar version of the time-name business under the ne ces of all the one part lessons. This way of using time-nan e will prove a hindrarce rather than a help. The bones of the French inventors would turn in their coffins to hear it.
6. Mother Goose is kept before us again in this book, even to the last year of the Grammar School, see jage 205. Our new lights in the world of musical education for children take a good deal of stock in Mother Goose. Many things which are not from that estimable volume of poetry are about on the same level. All those about "My baby in my arms," "Who's been kissing our baby?" "Baby in a cradle," "Sleepp, baby, sleep," \&c., \&c., will be very interesting to the boys doubtless. There are some songs with very appropriate words, but it is singular how large a proportion of these have only one verse. "The fount-the fount is dry:"
7. The old chaim that H. E. Holt alone has been able to apply to music "the true educational principle of instruction already known to the best teachers in other directions " is again made in the preface, apparently without a bluh. Nothing like cheek. Who-e microscope can find anything in the book to justify such a claim as this?
8. The preface alludes to the fact that questions and answers a., wholly omitted. This is a wise omission, if they were to be anything like the statements on page 2 n ; for example, "A sharp raises the note a semi-tone." Look at the note and see it rise when a sharp gets before it.

## - NOTES AND COMMENTS.

We are pleased to notice that Mr. John Henderson, M.A., for many years past assistant principal of the St. Catharines Collegiate Institute, has been appointed to the position of head master of that popular institution. We congratulate Mr. Henderson upon his appointment, and bespeak for the Institute continued success under his regime.

Mr Ruskin's idea of education runs somewhat as follows : Every parish school to have garden, playground, and cultivatable land round it, or belonging to it, spacious enough to employ the scholars in fine weather out-of-doors. Attached to the building a children's library, in which the scholars who care to tead may learn that art as deftly as they like by themselves, helping each other without troubling the master; a sufficient laboratory always, in which shall be specimens of all rommon elements of natural substances, and where simple che:nical, optical, and pneumatic experiments may be shown, and, according to the size and importance of the school, attached workshops, many or few but always a carpenter's, and first of those
added in the better schools, a potter's. In the school itself, the things taught will be music, geometry, astronomy, botany, zoology, to all; drawing and history to children who have the gift for either; and, finally, to all children of whatever gift, grade, or age, the laws of honor, the habit of truth, the virtue of humility, and the happiness of love.

Carlyle says: "If we think of it, all that a university or final highest school can do for us, is still what the first school began doing-teach us to read. We learn to read in various languages, in various sciences; we learn the alphabet and letters of all manner of books. But the place where we get knowledge, even theoretic knowledge, is the books themselves. It depends on what we read, after all manners of professors have done their best for us. The true university of these days is $a^{\prime}$ collection of books."

A superintendent should be as vigilant in discovering the grood work as in detecting the bad work of the teacher, and commendation should be wisely given whenever deserved. Just commendation is a duty, as well as just criticism, and frequently the influence of the approving words will be far more useful than words of censure. Reticence, in cases where the reasons of approval or of disapproval are posifive, will not tend to inspire teachers with proper confidence in those who oversee and direct. In short, the supervision should be so administered that teachers will feel that their interests and those of the pupils and the superintendent are inseparable; yet the fact that the schools were established, and are to be carried on for the benefit of the pupils, should be most prominent in their management. -N. A. Calkins.
"OUGH."
soaberville journal
The plowboy whistled behind his plough For his lungs were sound, and he had no cough ;
He guided his teann with a plinnt bough, And watered it well at the wayside trough.

The toil was hard, for the land was roughIt lay on the shores of a Scottish lough-
But is well-fed team was stout anc tough, And ho plied his b.algh to flank and hough.
He ploughed all day, and the crow and cough Flew around his head, though he oft cried shough
But his plougit at last struct a hidden sough With a force that sent the share clear through.

Then the team tonk fright and ran of with the plow, With the speed of the wind from the plowboy, though He shouted "Whoe !" and into a slough
It plunged where the mud was as soft ns dough.
The plowboy wopt, sor the wreck was thorough ; H9 fled that night from the farm to the burough.

The more a diamond is cut the brighter it sparkles, and in that seems hard dealing God has no end in view but to perfect His secms hard dealing God has
people's graces.-Dr Gutrie.

## Stathematical Bicparturent.

## BROWN UNIVERSITY, PROVIDENCE, RHODE ISLAND.

## EXANINATION FOR ADMISSION.

1. Reduce $\frac{1}{2}$ of $6 \%$ of $1.0 \overline{5}+3_{3}^{3}$ of $\mathrm{i}^{7} \sigma$ to the simplest form.

Answer $=\frac{1 \times 6 \times 105 \times 2 i \times 10}{2 \times 100 \times 100 \times 3 \times 7}=37 \overline{0}$.
2. If 17 men ann reap a field in 9 days, how long would it take to reap half of it, if $\overline{0}$ men refuse to work ?

1 man could reap half the field in $\$$ of $9 \times 17$ days
12 mon " " " " " "t of $\frac{1}{2}$ of $9 \times 17 \mathrm{dys}=63 \mathrm{dys}$.
3. A man bought 200 meters of cloth in France $016 \nmid$ francs por meter ; he paid $12 t \mathrm{c}$. a yard for duty nud freight, and sold it in Buston © 84.624 a yard. What was his gain. ( 1 franc $=19.3 \mathrm{cts}$.) 84. $624-12.2=84.50=$ actual selling price.

1 yard $=36 \mathrm{in} ., \therefore 1$ inch costs $\$ 4.50+36=\$\{$
But i moter $=30 \cdot 37043$ inches
$\therefore 1$ moter sells for $34 \times 39 \cdot 37043=\$ 4.921303$
Again 1 motor costs 16 f f. $=16 \cdot 25 \times 19.3$ cents $=\$ 3 \cdot 13025$
gain on 1 meter $=\$ 4 \cdot 921303-\$ 3 \cdot 1362 \overline{0}=\$ 1 \cdot 7840 \overline{3} 3$
gain on 200 metres $=\$ 1781053 \times 200=\$ 357 \cdot 0106$.

## education depantment, ontario, july EXAMINATIONS, 1884.

girst class teachens-arade c.

ALGEBRA.
Examiner-J: A. McLellas; LL.D.

## Note-Ten questions will constitute a full paper.

1. Divide $x^{5}-5 q x+4 r$ by $(x-m)^{2}$.

Fund the relation betweon $q$ and $r$, in order that the remainder may vanish.
2. When is sny expression symmetrical with respect to two or more of the letters it involves?
(1). Fud the square root of $3\left\{(r+b+c+d)^{2}+(b+c+d+e)^{2}\right.$ $+(c+d+c+a)^{2}+(d+c+a+b)^{2}+(e+a+o+c)^{2}$
$\left.-\left(a^{2}+i^{2}+c^{2}+d^{2}+e^{2}\right)\right\}$
$\left.\overline{-}\left(a^{2}+i^{2}+c^{2}+d^{2}+e^{2}\right)\right\}$.
(2). Simplify-
$\frac{(a-b)^{3}-(b-c)^{3}}{a^{2}+a b-b c-c^{3}}+\frac{(b-c))^{2}-(c-a)^{2}}{b^{3}+b c-c a-a^{2}}+\frac{(c-a)^{2}-(a-b)^{2}}{c^{3}+c a-a b-b^{2}} . \quad-$
3. Show that $(x-a)^{12}-x^{6} a^{6}+\left(x^{2}-a x+a^{2}\right)^{6}$ is exactly divisible by $a^{3}-2 a x^{2}+2 a^{2} x-a^{3}$.
Fit 1 the factors of $\left(a^{3}-b^{2}\right)^{5}+\left(b^{2}-c^{2}\right)^{3}+\left(c^{3}-a^{2}\right)^{5}$.
4. Show how to extract the square roct of a quantity of the form $a+b \sqrt{-1}$.
(1). Find the square root of $-3-\sqrt{-16}$.
(2). Show that one of the fourth roots of -64 is $2(1+\sqrt{-1})$.
6. Solve the equations $a x+b y=c, a^{\prime} x+b^{\prime} y=c^{\prime}$.

Interpret the result when $\frac{a}{a^{\prime}}=\frac{b}{b^{\prime}}=\frac{c}{c^{\prime}}$
C. Solvo the equations-
(1). $\quad \frac{a x+b}{a+b x}+\frac{c x+d}{c+d x}=\frac{a x-b}{a-b}+\frac{a x-d}{c-d x}$.
(2). $\quad \frac{x}{b+c}+\frac{y}{c-a}=a+b$.

$$
\begin{aligned}
& \frac{y}{c+a}+\frac{z}{a-b}=b+c \\
& \frac{z}{a+b}+\frac{x}{b-c}=c+a
\end{aligned}
$$

7. Find the relation between the roots and co-efficients of the equation $x^{2}+m x+q=0$.

If the difference of the roots of the equation $x^{2}-(m-a) x+b^{2}=0$ is equal to the difference of the ronts of the equation $x^{2}+(m-b) x+a^{2}=0$, show that $2 m=5(a+b)$.
8. Prove that $\frac{a-b}{1+a b}+\frac{b-c}{1+b c}+\frac{c-a}{1+c a}=\frac{a-b}{1+a b} \cdot \frac{b-c}{1+b} \cdot \frac{c-a}{1+c a}$
9. Solvo tho equations-
(2).
(3).

$$
\begin{gather*}
x^{3}+y^{2}=a  \tag{1}\\
x y(x+y)=b . \\
\left\{\begin{array}{c}
\left(x^{3}+x^{2} y+x y^{2}+1 y^{3}\right)(x+y)=a \\
\left(x^{3}-x^{2} y+\lambda y^{2}-y^{3}\right)(x-y)=b . \\
v^{3} x+\sqrt{2}+\sqrt{2} x-\sqrt{2}=i^{\prime} 2 .
\end{array}\right.
\end{gather*}
$$

10. Show that if the arithmetical and geometrical means of troo quantities be given, the quantitios thomselves may bo found, and give expressions for thom.
(1). Sum the sories $1-\frac{2}{m}+\frac{1}{m^{2}}-\frac{2}{m^{3}}+\frac{1}{m^{4}}-\mathbb{C}$., ad inf.
(2). Show that the sum of $n$ terms of the series
$1+3+7+1 \bar{y}+\ldots \ldots+\left(2^{n}-1\right)$ is $2^{n+1}-(n+2)$.
(3). Write down four torms of the series whose $n^{\text {th }}$ term is $\frac{4 n^{2}-1}{4 n^{2}+1}$
11. The number of combinations of $n+1$ things 4 together is 9 times the number of combinations of $n$ things-2 tugether ; find $n$. 12. Show tiat there are only $n+1$ terms in the expansion of $(1+x)^{n}$ when $1 t$ is a positive integer.
(1.) Write down the $0^{1 / h}$ term of $(1-x)^{-3}$
(2.) Writo down the middle term of $(1+x)^{\text {in }}$.
solutions.
12. 

$$
\begin{aligned}
& \begin{array}{r|c|c}
1 & \begin{array}{c}
1+0+0+0 \\
+2 m \\
-n^{2}
\end{array} & \begin{array}{c}
-5 m+4 r \\
-4 m^{2}+6 m^{3} \\
-m^{2}-2 m^{3}
\end{array} \\
\hline 1+2 m+3 m^{2}+4 m^{3} & -3 m^{4}-4 m^{5} \\
\hline-3 m^{4}
\end{array} \\
& \therefore 5 m^{4}=5 q \text {, and } 4 m^{3}=4 r \text {, i. e., } q^{3}=r^{4} \text {. }
\end{aligned}
$$

2. Sce Teachbrs' Handbook of Algebea, p. 32.
(1). Fullowing a wo see that $3,3 t^{2}+(i, t)$ is part of tho result $\therefore$ by symmetry the whole rusult must be $\left.\stackrel{O}{=} 3\left\{3\left(a^{2}+b^{2}+c^{2}+d^{2}+e^{2}\right)+6(a b)+b c+c d+d e\right)\right\}$

(2). Ist fraction $=(a-2 b+c)-\mathrm{pp} .34,3 \bar{n}, 36$.

1st fraction $=(a-2 b+c) \div(a+b+c)$, honce by symmetry
2nd $\quad$ " $=(b-2 c+a)-(b+c+a)$ 2nd " $\quad$ 3rd $=(b-2 c+a ; \div(b+c+a)$
$\begin{aligned} & \text { 3rd " } \\ & \therefore \text { Sun }\end{aligned}=(c-2 a+b) \div(c+a+b)$
$\therefore$ Sum $=0 \quad 0 \quad \div(a+b+c)=0$.
-Sce Hailidoot, p. 119.
3. (c) $x^{3}-2 a x^{2}+2 a^{2} x-a^{3}=(x-a)\left(x^{2}-a x+a^{4}\right)$

Now if $x-u=0$, dividend $=0, \therefore x-a$ is a factor.
Again put $x^{1}-a x-a^{3}=0$, i. c., $(x-a)^{2}=-a x$, or $(x-a)^{12}=a^{6} x^{5}$ and the dividend mmediately vanishes, $\therefore x^{2}-a x+a^{3}$ is also a factor.-See Gandsoos, p. 48 .
(b) For $a^{3}, b^{7}, c^{2}$, write $x, y, z$ respectively and we get

| $(x-y)^{5}+(y-4)^{5}+(z-x)^{5}, \begin{array}{c}\text { which } \\ \left(x^{2}+y^{2}+z^{2}-x-y y^{2}(y-z)(z-x)\right.\end{array}$ |
| :---: |

-Seo HANdBoos, p. 89, 12, and p. $64,27-30$.
$\therefore$ the factors are $\overline{5}\left(a^{2}-b^{2}\right)\left(b^{2}-c^{2}\right)\left(c^{2}-a^{2}\right)$
$=5(a+b)(b+c)(c+a)(a-b)(b-c) \cdot(c-a) \quad\left(a^{4}+b^{6}+c^{4}-a^{2} b^{2}-b^{7} c^{3}-c^{2} a^{2}\right)$

$$
\left\{(a+b+c)(a-b-c)(a-b+c)(a+b-c)+\left(a^{2} b^{2}+b^{5} c^{2}+c^{2} a^{2}\right)\right\}
$$

4. Assumo $x+y=\sqrt{ }(a+b \sqrt{-1}), \therefore x-y=\sqrt{ }(a-b \sqrt{-1})$,
$\therefore x=\& c, y=\mathbb{E}$, and $x+y=1\left\{2 a+2 \sqrt{ }\left(a^{2}+b^{2}\right)\right\}^{\frac{1}{2}}$
(1) $\quad+\frac{1}{2}\left\{2 a-2 \sqrt{ }\left(a^{2}+b^{2}\right)\right\}^{\frac{1}{2}} \sqrt{-1}$.
(1) $-1+2 \sqrt{-1}$.
(2) $\sqrt{(-64)}= \pm 8 \sqrt{-1}$. Take the upper sigo and assume $x+y=\sqrt{ }(0+8 \sqrt{-1}, \quad \therefore x-y=\sqrt{ }(0-8 \sqrt{-1})$
$\therefore x^{2}+y^{2}=0, x^{2}-y^{2}=8, \& e, x+y=2+2 \sqrt{-1}$.
5. Book-rrork. Sse Oulenso, part II, §.43, 40. Tho equations are not indupendont of each olhive; the values of $x$ and $y$ are
indeterminate.
6. (1) Transpose and add separatoly che two pairs of fractions and $\left.a b\left(1-x^{2}\right) \div a^{2}-b^{2} r^{2}\right)=c i l\left(1-x^{2}\right) \div\left(a^{2}-1 l^{2} x^{2}\right)$
$\therefore 1-x^{2}=0$ is ono solution, or $x= \pm 1$
and $a b \div\left(a^{2}-b^{2} x^{2}=c d\right)+\left(c^{2}-d^{2} x^{2}\right)$ gives two more.
(2) Add the equations os thoy stand ; striko out funtor 2,
$\therefore(a) \frac{z}{a^{4}-b^{2}}+(b) \frac{x}{b^{2}-c^{2}}+(c) \frac{y}{c^{2}-a^{2}}=(a)+(b)+(c)$
$\therefore$ by inspection $x=b^{2}-c^{2},!=c^{2}-u^{2}, \hat{=}=a^{2}-b^{2}$ will satisfy tho equation and reduce it to an identity, and these values aro easily veritied on trial.
7. (a) Book-work. (b) Let $a, \beta ; K, p$ bo the respective roots. $\therefore a+\beta=m-a, a \beta=b^{2} ; K+p^{\prime}=b-m, K^{\prime}=a^{y}$ and $a-\beta=K-p$. Take $1+5$ and $1-5$ and $4 a \beta=(m-a)^{2}-(K-p)^{2}=4 k^{2}$. And from 3 and $4,\left(K^{-}-p\right)^{2}=\left(1--m^{2}\right)-4 c^{2}$. Substitute in the last equation and $\left.\tilde{v}\left(a^{2}-b^{2}\right)=2 n \cdot \vdots-b\right) \quad \therefore$ dc.
8. Clear of fractions and we have to show that
$(a-b)\left(1+c a+b c+\left(a b c^{2}\right)+\right.$ anls $=(a-b)(b-c)(r-a)$
i. $c .(a-b)\left(c a+b c+a b c^{2}\right)+a n l s=" \quad " \quad " ; \because(a-b)+a n l s=0$. or $(a-b c)(a+b+a b c)+$ anls $=$ (II) (II) (II) i. c.. $(a c-b c)(a+b)+\operatorname{anls}=(11)(11)(i 1) \quad \because(a c-b c)+a n l s=0$. or $c\left(a^{2}-b^{2}\right)+$ anls $=(a-b)(b-c)(c-a)$ which is true, $\therefore$ Sc.

2xd Solution. -Nr. of sum $=(a-b)(1+b c)(1+c a)+a n l+a n l$.
$(a-b)(b-c)(c-a)$ is one factor of three dimensions, since the sum vanishes for $a=b, b=r$, or $c=a$. We may expect another factor of 2 to make up the required 5 dimensions. Hence put
$(a-b)(1+b c)(1+c a)+a n / s=(a-b)(b-c)(c-a)$
$\left\{K\left(a^{2}+b^{2}+c^{2}\right)+Q(a b+(c))\right\}$
-See Handrook, p. 229 ; Casada School Joursal, May No., p. 104.

Putting $c=0$ and reducing wo havo
$1=K\left(a^{2}+b^{2}\right)+Q(a b) ; \therefore$ Numerator $=(a-b)(b-c)(c-a)$ only.
9. (1) I $\div$ II gives $\frac{x^{2}-x y+y^{2}}{x y}=\frac{a}{b}$
$\therefore(x-y)^{2} \div(x+y)^{2}=(a-b) \div(a+3 b)$

$$
\frac{x+y}{x-y}=\sqrt{\frac{a+3}{a-b}}
$$

$\therefore x \div y=\left\{\sqrt{\prime}^{\prime}(a+3 b)+\sqrt{\prime}^{\prime}(a-b)\right\} \div\{\sqrt{ }(a+3 b)-\sqrt{\prime}(a-b)\}=m$, say,
$\therefore x=m y$. And from II, $y=1^{3} b \div r^{3}\left(m^{2}+m\right)$ ©c.
(2)

$$
\left.\begin{array}{l}
\left(x^{4}-y^{6}\right)(x+y) \div(x-y)=a \\
\left(x^{4}-y^{d}\right)(x-y) \div(x+y)=b
\end{array}\right\} \text { I. }
$$

$\therefore(x+y) \div(x-y)=1 / a \div v^{\prime} \bar{b}=m$, suppose. (A.)
$\therefore x+y=(m+1) \div(m-1) ; x=y(m+1) \div(m-1)$
Substitute this value for $x$ dc.
Or, add and subtract I \& II and put $y=x x$.
(3) Cube by formula, p. 11, Teachers' Handbook, and then $v^{\prime}\left(x-\sqrt{\prime}^{2}\right)=0 \therefore x=\sqrt{2}$, one solution.
Also $3 \sqrt{2}^{3}(x+\sqrt{2})=-\sqrt{2}, \quad \therefore x=-\frac{1}{2}!\overline{2}$.
10. (1) $S=1-\frac{2}{m}+\frac{1}{m^{2}}-\mathbb{S c} ; S \div m=\frac{1}{m}-\frac{2}{m^{2}}+\mathbb{A} c$.
$\therefore S(m+1) \div m=(m-2) \div(m-1)$, and $S=m(m-2) \div\left(m^{2}-1\right)$.
(2) $S=1+3+i+d c^{2}, 2 S=2+6+14+\delta c$.
$\therefore 2 S-N=-1-1-\dot{A} c .+\left(2^{n+1}-2\right)=2^{n+1}-(n+2)$.
(3) Put $n=1,2,3$, 4 respectively and we get the series req'd, 5, $\frac{35}{15}, 35,83$.
11. $(n+1)(n)(n-1)(n-2) \div-9(n)(n-1) \div 2$ $(n+1)(n-1)=108=(11+1)(11-2), . . \quad n=11$.
12. $(1+x)^{n}=1+n x+\mathbb{C c}+x^{n}$, where $n$ terms contains $x$ $\therefore$ thero aro $n+1$ terms altogether.


$$
\text { Ass. }=110 x^{4} \div-243
$$

(2) The $(n+1)^{\text {th }}=$ middle term, since $2 n$ is even. This term is $\frac{1 \underline{2 n}}{2_{i} \underline{n}} x^{n}$, which is reducible to $1,3,5 \ldots \ldots \ldots \ldots \ldots(2 n-1) 2^{n} x^{m} \div 1$.

Read carefully the Prospectus of the Canala School Journal Printing and Publishing Company. Do not hesitute to take shares. The investment is proftable and secure.

## Communiations.

## To the Eiditor of the Canada Sehoor Journal.

Dealk Sin, - Your criticiems in the Octuber number of the Jour. val, on the First Reader, Nomal School Course, have given satisfaction to myself and many of my friends, for wo feel that the book is not an improvement on the system of school music in use before.

The songs wo have been accustomed to were of nin elerating and refined nature, containing motal or patriotic sentment, and we feel the subject has degenerated in the new books, which abound in tinshy stuff such as "Mother Goose," and "Nursery Nonsense." I camnot see the force or benefit of instructing my pupils in that class of songs. It may be considered pardonable in a book arranged fon very joung children who havo to be taught by rote, but when the same kind of matter is introduced into the Second Reader-a book for adranced pupils-I consider it, to say the least, unsuitable. I hope gou will notice this point in your next isoue, together with other palpable faults.

Surely in the wide range of appropriate school songe something better could be found for Grammer School pupils than the one on page 12, Second Reader :-
"There was a piper had à cor, And he had maught to give her,
He pulled out his pipes and played her a tuno, And bado the cow consider.
" The cow considered very well, And gave tho piper a penny," ste.
Equally edifying with the above is the song on page 67 :-
" Tom he was a piper's son,
He learned to play when he was young ;
But all the tunes that ho could play,
Was 'Over the hills and far away."
These are two instances out of quite a large number of wishywashy songs which it is quite ridiculous to expect pupils who have long since quitted laabydom to sing with taste or even to learn.

I cannot see that the Problem of Singing at Sight is any nearer being solved now than it was before. It may be learned from the "Normal Music Course," but certamly it wall take harder study and louger time than can be devoted to it in our schools. The Ti-toving alone would occupy all the time we can spare, and it will require no small diligence on our part to learn that new language-evidently elementary Fiji. Yours, etc.,

City Teacher.

## Special Atticles.

## SOME WAYS TO ELEVATE THE TEACHERS' PROFESSION.

by a met b. sphague, pif. d.
I. We should, perhaps, reverence more highly our calling. We should be more keenly alive to the fact that the most vital interestis of any community is the right educaton of tho young; that the greateat service that can be rendered to a child is to train him up in the way he should go; and that the five or six hours a day in school give the instructor a greater upportunity than the minister, or cuen the average paren possesses.
II. Teachers should make themselves more worthy of respect, fitting themselves with the utmost care and with endless prinstaking for their work. This involves, among other things, a higher standard than now of the following requisites:
a. Oenoral intelligence on tho pert of the instructor. Somothing of ovorything, or, at least, something of many brimehes of knowledge, ho should know. Therewith should como greator breadth and a bettor porspectivo.
b. A cluar onneeption and steady view of tho results to be aimed at in the training of at child.
c. Mastery of the special subjects taught. On overy side the teacher should stand on a vantacgerground, able to consirust, wif. hand, from his own brain, a suflivient text book, and able, like the bost Gorman instructors, to dispenso with tert-book altogothor during recitation.
d. Skill in conducting class exercises. This involves tact, quickness, avordance of orrors, daily planning, daily study by the teacher. For ten, twonty, or oven thirty years, the best lawyor, clergyman or physician is growing more expert. It mast bo so with the true teacher; every school performance by him should be a work of art, adding new skill, and revealing more and more the hand of a master-workman.
e. A hearty love of children, and an intense delight in seoing them grow day by day in grace, in knowledge and in strength. Without this love and joy, this great condition and rich reward of success; the teacher has mistaken his calling. With them, however lofty the ideal, there will be no impationce toward the weak and erring, no sarcasm in his wit, no ridicule in his humor ; cheorfulness, courage and hope will rise into inspiration.
$f$. Health of body and soul on the part of the teacher, in order that thare may be tenderness without morbidness, firmness without undue sevority in dealing vith the pupll. Religious consecration, taking hold of every fibre of the tracher's nature, is the indispens-
able basis.
III. In aid of this sedf-improvement the literature of tho profession should be in the instructor's hands and on his library sholves. The works on education, now within reach, are already rich in the fruitage of deep thought and wido experience. Sume of the educational newspapers and magazines ars valuable. Thoy cannot be neglected without loss. The work that is going on in school and college, the successes and failures of the muny experiments that have been tried, the biographies and systems of the great educators. ought to be in some good measure known to overy teacher of long experience.
IV. Teachers should regard their occupation not as collateral, incidental or temporary, but as central and permanent; not as a convenience or a stepping-stone, but as a life-work.
V. They ought to combine for mutual improvement, mutual cheer and mutual aid. Teachers' clulss; town, county, state, national associntions; teaehers' insurance companies; the American Institute of Instruction; such organizations should be fostered, their mombership incrensed, their meetings attended and mado moro useful. In all proper ways an esprit de corps, earnest, yet never degenorating into clannishness, shc.ld be promoted. Teachors, above all other mon, noed to loon o.ch other in the face and seo how strong they are if they will but pulljiltogether. To hold ono's solf aloof from these gatherings, to bs a sort of illiotes, argues conceit or selfishmess, or ignorance sadly at variance with the ossential spirit of the profession.
VI. Teachers should be alive to thoir social and civil duties, and disposed, modestly, yet bravoly, to maintain their rights; not afraid to take sides on any question that divides tho community; having an opinion and ready to maintain it, a voto and ready to cast it. There is hardly a more pitiable speotucle than a teacher too stupid to know, or too selfish to care for, or ton cowardly to assert tho just claims of his country, his party or his ruligion. Here should come a quist but sloopless vigilanco, industry and adroituoss in olovating
public sontimont on school matters, in socuring tho best mon as mombers of school committees, and in shiping school legislation so a3 to honor God and bless mankind.

VII A'sin to the proseding, te:ohors should cherish such a high sense of hat as will not submit timsly to unjust, asparsions upon their profussion, nor to unfair treatmont of any of their mumber by those in authonity over than. It miy not at all tims bs wiss to spoak out; bat when their vistion, or thair fraternity, or any one of theor numbar, is pablicly slightel, or disparazed, or wronged, whenever action is taken that appaars to $b_{3}$ basod upin the thenry that teachers, as a class, are untrustworthy or incompetent, or pachydurmatous,-they should somenow mako the perpotrators feel that this thing is not to be dono with impunity, and make the public aware of thoir indignation. Through tho nowspaper press, or through some hish-minded offisial, or by resolutions published to the world. or otherwise, according to circumstinces, the professional honor and rights should bo vindicated.-N. E. Journal of Ellucation.

COL. PARKER'S NORMAL SCHOOL.
by aniss edin herd.
In the second grammar room the children have been studying the Battle of Bumieer Hill. A half-hour in the lih-ary one morning gavo the class an opport:nity to compare different pictures, maps, etc., and they wore encouraged to take out books and study the subject at home. They havo talked and rad in the class, bringing in all the incidents and anecdotes they had githered, and making black-hoard sketches of the scene of the battle. The children have ornamented the boards with colored flags, both British and American, and their drawing teachers say overy one is anxious to draw flags, soldiers and breastworks.

They are to take the next losson in the monlding roon. The peninsulas of Carleston and Boston will be made in sind on the moulding-board, and meauwhile the boys and girls are making soldiers out of red and blue pasteboard, also ships to put in the harbor, and a rail fenco. The commanders have been chosen on each side, and will erect the defences and place the men, subject to the criticism of the suldiers. Uniforms and guns will be described. Each child will then draw on the board a map of the region, locating the principal points on the battle-field. Finally each child will write an account of the battle as he has beon led to see it.
In another class the children are reading "Seven Little Sisters" -a book describing seven littlo girls living on different parts of the globo, their mode of life, and their surroundings. The teacher makes a model of each little girl's house, and places it before the pupils for them to draw. The models are made of cardboard, and the lively imaginations of the children supply whatever is lacking. A camel is seen pationtly standing in front of the Arab's tent, and a span of dogs by the hut of the Esquimaux.

Another class is usiug Scribner's Gongraphical Reador. The subject under discussion was the manufacture of silk. The silk. Worm and the cocoun were exhibited to the pupils, also the sille as it is wound frum the cocoon. Tho teacher gave a short explanation of how silk is manufactured. It is battor, when circumstances permit, to refer the pupils to tho book, p yper, or magazine from which tho dosifed information mily be obt:sined, and requost them to report at the next lesson upun the subject. Fivo minutes' reading is the class, that will result in twenty-five minutes' reading at home, with a wurthy yurpose, is better than half an hour's seading in the:
class and none at home. The right hatit is the important thing to bo gatined.

Another class is reading "Little l'cople of Asia." The subject was 'Tuhey, and the way the little luhs are diessed. A doll, provided by the teacher, was the on he me ly one of the pupils to be transfomed into a Tushish laby. The position assumed by tho Turtes in prayer was shown by the pupils, and the whole lesson made ohjective.

In ancther rom a class was at work uma long mensure. The fout-rule and yard-stick were used. The teacher drew upon the board an equilitenal triangle. The puits ne asured this tigure, and found it to be twehe inches, or one fo A, 41 cach side. One of the pupils now whote upon the boadd, 12 in . $=1^{\circ} \mathrm{ft}$., as the beginning of the table. The tcacher then asked the guestion, "How many inches arcund the triangle ?" After measuines, it was declared to be thirly-six inches, or three fcet. The gand stick was next measured by the pupils, and found to be thee feet, or one yard long. A panil then wrate upon the board, 36 in . or $3 \mathrm{ft} .=1 \mathrm{jd}$.

The teacher gave this ciample: Eleven yards equal two sods: how many yads in one rod? The pupils measurcd off elesen yards on the flour, and discurcred one rud cane-latf of eleven yards, or five and a half yards. Eit yds. $=1$ rd., was then written upon the buard. The class all woiked together, and discovered atep by step the table of lang measure. The childen seemed delighted with the lesson, and with the series of lessons which followed. The chidren like to do for themselves, and were geatly plessed and interested in making practical measurenents.
In another class the pupals were engaged in mastering dry mea. sure. The pint, quart, half peck, and per measures were in use. A paper bay filled with bran was phaced in the eutner on sheets of pajei epreaid cut upen the floor to eatch any ban that might be spilled. As soon as it was decided which was the pint, quart, and peek measure, such questions as these were asked: How many phats ma yuart ( A pupl tilled the yoart measure from the phit measure. Then tle sentence, twopints mahes une cuart. was written upon the loard. After this they found the number of quarts in a pech, and that was written on the buard, and so on through the table. One of the weak pupils quite redeemed his reputation by performing the actual measurements in a careful, and thoughtful manner. After tinding how many pecks in a half-bushel, the teacher ashed, Huw many jeths in a bushel? The hamds came up, and the bright eyes gate t, hen of the clear seeing, for they had no bushel measure. After a course of ten or twelve lessons had been carefully given, the class was able to continue work in dry measure, changing from one form to another without difliculty. The little garl whe disconesed that the bumber of puts in eight guarts and the number of pints in whepech were the same, seemed very hapry. The class worked steadily for many lessuns upon dry measure with intense interest. Two boys were so pleased with their new number lessons, that they came every morning to ask the teachor if they might be allowed to bring the materials from the basement.
Lessons in honesty and neatness were aisu taught, for the teacher insisted upon exact measurements, and puring the bran from one measure to another, training the hands to careful work.

A number lesson was given by Mr. L- to a class of five pupils. The worh was with different colured stichs, two inches in length. The chiliren were twh to chase them ejes to tell huw many sticks weregiven them, which was an excellent phan, as it cultivated the sense of touch as well as that of sight. They wero taught one-half of four, one half of three; told to take enough more sticks to make six, and to find one hatf of six, we-that of sin, etc. The leading was se cartfully dume that the chilhen diswoured everything for themselves.

The class added to the six sticks one-third more, when they had cight. They found one-half of eight, telluy each time what they had done in full sentences. They took one more stick, aud then found one-haif of mue stichs, by Breakng wo of them; one-third of bate was dercluped. There was a smouthness and umty abutit the lesson that was beautiful.

The children worked steadily and quietly, and seemed to get a certain fixed power from the manner of the teacher. He tonk time to let them think, and, what was very charmmon, he did not disturb them with aseless questions when their hitle munds were engaged with the thang they were working out. The teacher had thuyght out his subject with reference to the growth of each child, and there was a regular order of steps by wheh those children were being strengthened in character by the examplebof the teacher, and in mind by their own exertion.

The drawing has been for some time in straight lines, but intely models made from cardboad have been placell before the classis. In one class it was refreshing to see the interest with which they wont to work to daw. There is something about a house, a tent or anything of that kind, that gives a stimulus to the imagination never gancd fiom simple pecmetrical figures. Whale tho teacher was careful to tran their cyes by haves them draw the house as correctly as possible, sho allowed them to add whatever their inngimations suggested, as trees, fences, etc. Caiticiems nere always made on the side of utility. For example, if the doors or windows were croekta, the child was asked how it would like to live insuch a house; or, if the chimney leaned to one side, what would be likely to happen to it if the wind were to blow hard.

Miss Sicer, of the Primary Department, suid: A young teacher onec said to me, "I like teaching, but I cannot govern my children." Why not?" "Oh, they are doing all kinds of mschief, and are. contimually troubling me. I realiy dread going to school some days." I watched her at her work, and found that sho actually lada dread and fear that the children would do or say something that would show her weakness. I told her next day that she nas showivg the children that she was weak, and they were taking adrantage of it, and ad vised her to go before them with such a strung, self-reliant manner as to impless on them the idea that she had an immense amomet of resen ve power, and that she should act with promptness and decision whenever there was necessity for it. "But," she said, "I am not strong flysically; almost every puphl in the class has more strength than I have." "So much more need for yon to appear strong," said l. After considgring the mater, she did as I suggested, and in time had a well dikeiplined schual, and as she had a love for teaching, became a fisst-class teacher. She did not practiec any deceftion upon her pupils, but was contimually cultivating in herself the habit of self-reliance.

A child said to one of the practice teachers, in answer to a questiun as to whether her teacher was strict or not, "Yes, she is ; that is why I like her. I hate a slimpsey teacher.' - T'esas SiChool Jutunal.

## INDUS'TRIAL TRAINING.*

By Induatrial Training I mean anything that rill tend to enable the hand to represent more accurately in material furm the thoughts of the mind. I accept as axioms the following statements: 1. It is possible to train the muscles of the fingers, the hand, and arm, to an almost unhmited extent. In other words, manual dexterity maty be cultivated. $2, \mathrm{lt}$ is oasier to train the hand of a chald than that of an older person, and therefore : 3. Tho sooner the industrial training of a child begins, the more perfect will be his developement.
I. If it be granted that the hand may be trainud, the next question to settle 15 , should it be trained in school? To this question I answer "Yes," for tho following reasons: 1. Because the muscles of children are more susceptible to training chan thuse of ulder people: 2. Buatuse the more extended use of the hand as a means of promoting real mental growth is in harmony with the foundation principles of education. "Children learn by doing ${ }^{-9}$ is a principlo that admits of a much wider application than has yet been given to it. The hand is the agent of the mind, and forms one means by which tho mind acquires knowledge, and makes the results of its thinking take a visiblo form. Tho hand acts only as it is directed by the mind. Before a child goes to school he has been learning mure rapidly than ho ever does afterwards. He has been learning through his activities, by doing and chelly by domg with his hands. Ho has experamented indefati. gably and almost incessantly with the vast guantity of material with which his Creator has surrounded him in nature. He has constructed an endless variety of things with the available ' itidiag material at has disposal, sand, stones, sticks, etc. ; he has be han his tuys, when has parents have been foolish enough to give thens

[^0] Ontario I'rovinctal 'Teachers' Asscciation, August, lost.
to him of too complicated a charaoter, and workod with the piecos; he has kept his mether in constint turror by asing overy article in the houso within his reach, and not too hoary to handle. Why does 10 spond so much the in workng! Beenase doing is so perfoctly ad.pted to lus physical and mental development. All his buildug, making, and oxpermenting with matorial has boon dono in response to an unorma mstunct which guides him in the course which securos for him tho must rapid, the must dotimte, and the most comprehensive oxpanson of his nutellectual facultios, in addation to the cultivation of hus bodily powers. The mind ac s with mure concentrition of attention when guidng the hand than nt any cther timu. Obsorvation, comparison, judgment, are calle into action in connection with overy oflort the haima mities, ad their constant nad interestod oxercise is their memas of growth. Unfortunately the entrance upon school hfo generally puts an end to thas devolopment through the activites, and instead of oducating our children in the fullest sense of the term, wo too often make thom What one writer ealls too appropriately "stuffed parrots." Tho course of study and the disciplame in many promary classes is such, that wero tho schouls kept open for twolvo hours por day, instead of five or six. the greater portion of the population of civiluzed countries would bocome weak in boily and mund as the result of the injurious mothods employed in them. The boy whose childhuod is spent in the conntry hias better opportunities for the natural dovolopment in mind and body than tho boy who is brought up ma city or town. Ho comes nore directly in contact with mature, he spends less time in school, ho plays more, and his plays are of a less artuictal character, and ho is compelled to do a greater variety of work. By the time he has reached the age of Sifteon the city boy has gonerally more learnnu, but the country boy has usually a greator capacity fur learnms. Tho advantage is
decidedy in favor of the country decidedly in favor of the country boy.

Tho powor to gain knowledgo is much bettor than knowledge itsolf. Statistics, so far as they have beon takou, show that about seventy-five per cont. of tho leading men of the American cities, of the juidges, the ministers, the prominent lawyers, doctors, teachers, bumker, nad sucesessulu business men, spent most of the tirst fift - 11 years of their lives in the country. Doos this prove that edncation is a failure in qualifying mon forsuccessful careors? Cortainly not. It dios prove, howerer, that gechool education is nut always real education I urgo vory strmgly the need of a rovolution in tho work of the lower primiry classes. We should change the programues, th: methuls and the discipline of our schuols so far as they relate to the first year of a child's hite in them. The guiding principles which should lerlie the amonded schemes of work and manargement should unu tedly bo: 1. Let tho child during his first year at school deal chiefly with real things, as ho did before he ontered school; ;and, 2. let him use things that ho may learn not about the things themselves, but that through using them he may incidentilly learn now facts, discover new principlos, devolop his perceptive faculties aidd define his conceptions. 3. Because it is the right of every man to receive such an educntion as will best fit him for the successful performance of his duties in whatever sphero he may labor. I do nut urge that educations should bo considered merely from a utilitarian staudpoint. I wuald umit no opportunity for cultivating the physical, mental and mural natures of childron. I hold that our schools will fail, to a certain extent, so long as they do unt fit every pupil to advance, as far as possible for him, in the development of purity and truth, so long as thoy do not guide him towards the infinite sourco of all devolupment, and lead him to hope for a perfect development in the life that is to follow death. Bo lieving all this, I still regard it as nearly amounting to criminal negligence to allow our pupis to pass through their school life without giving them somo definite industrial training. The majority of our pupils will have to carn for themselves and their families, not only tho means of livelihnod, but of the culturo available for them, by the use of tinoir hands. There is not a pupil in our schools, even amons those who may not bo compelled to work at manual labour, who would not find it to his advantage in the future to have well trained fingers. Surely these facts should convince us of the necossity for systematic training of the hand at the time when its highest culture is most possiblo and most o csily socurerd. 4. ,Because the system of appronticing boys and girls for the purpose of learning trades and occupativens has beon discontinued. It has disappeared through the instrumentality of trades unions, because it was unsuited to the tastos and customs of modern bociety, on account of the great increase in the use of machinery in manufactories,
and becruso it was not in accordance with the principles of political ecomomy. Adam Smith objected to it for tho following reasons: "It niterfered with the proporty which every man has in his own labor eneroachod on tho liberty of omployer and omployeo, restrain d compotition, continued in an unnecessary length of time, and falod to allow tho rewards of faitl)ful labor to bo enjoyed as thoy were earned." Notwithstandi:s these inhoront objections, it had the merit of securing a class of skilled muchanics, and unfortunately nothing leas yot been substituted for it which performs this important fanction in anything liko an adequate mannor.
This radical defect mast bo renueded in some way. The bist way, undoubtedly, is a comprehensive system of industrial trant ing. D. Bucause improving the mechanical skill of the industrial classes must add to tho general wealth and prospority of a nateon. This is a "Natomal Polley Platforn" on which all classus can unite. Adilitional skill produces wealth in two ways: by saxing time and by mereasing the values of the articles produced. Mr. J. Scott Russell in Ins "Systematic Tucluncal Elucation for tho Euglish People" says in rogard to th" question:-"The highert value in the world's markets will be obtaned by that nation which has been at most paus to cultivate the melllygence genorally, and afterwards to give each tho highest education and thaming in his sperial calling." 6. The marvollons increnso in the use of delicate and intricate machuory m manufacturng domand a moro thorough technical industral tramnes on the part of those who are to use the machines. Dr. Mill, in reforring to the well-known fact that the first intermational exhibitions gave a rude shock to the English people, and aroued them to a realization of the fact that they were far bohind several other countries 10 the excellence of their manufactures, says: "Beaten we were, and that disgracefully ton. * * The lace makers of Nottugham saw that foreghurs came, purchased thoir machines, took thom home to their uwn countries, and by setting a more intelligont and artistically tained set of workmen over them produced a class of goonds with wheh it was impossible for our people to compete." 7. Because the number of artistic manufactures is constantly increasing and their charracter varying, and consequently the workmen specianly need skiliul fingers that can adapt thomselves to any work they may bo called on to perform. 8. Because tho wealthier classes are calling for a hegher style of ornamental woodwork in their houses, and more artistic furmture, etc., duffrimg from orimary artucles of a smmar character in construction and desgo. M.chine made articles aro turnod out in largo numbers exactiy stuilar in design. Thuso who can afford the luxury are anxious to have something special, of which no one olse can obtain an exact reproduction. They have to pay lagher prices for such artcles, and they gladly do so. A painting by a great artist is largely mereased in value by the fact that no duplicate copy of it can be obtained. So with a work of art produced by a mochanic. The domand for such work is rapidly increasmy. Tradesmen and mechanics of all classus are compelled to vary their workmanship contmually. Those sho besi succeod in dong so can earn most money and earn it most eassly. All wurkmen may be adod in doing so by systematic manual training. 9. Beanuse to will incresse the prosperity of the working classes, and will elevate their social pusition. If a werkman cian by a higher degree of skill produce a more valusble article than he could otherwise do from a certam amount of raw materal, $\therefore$ increases his own value to lus employer, and will recowe higher wages, because the noral effects of such a traning are good. Improving a workman's position will make him more contented and happy. He will be mire merested in his work, and mors proud to occupy his sphere of labor, m propurtion as ho is ablo to uxcel in it. It will better tho relationshy botween mastor and workman and improve the character of the work dune by artisinns. Success will induce him to make greator efforts, and will enable him to surround himsolf and his fumly at home with many of the elements of culture and refinement. Thas manual thanuyg has also an important moral milluence in monidug the characters of children. They are nuturally destructive, but the same tendency which leads them to destroy will nake them take a delight in work of a productive character if they are properly guided. It is a very inport:ant part of a child's moral traming to makie hun constructivo mastead of destructive; and working under the guidance of a teachor is the best means of accomplishing this very desimable ond. Thoushads of children grow up with a contempt for work. They generally becume in some way a burden to society. Gaol statistics show that three-fourths of the young men who fali into criminal courses are unable to work at ahy yrade. "Iabor, all labor, is noblo and holy." The only way to
make this beautiful thought a practic al verity is to train all children, rich and poor alike, to be able to wonk with their hands. This will not by any means make all of them mechanics.
II. What should be done in connection with schorl work to train the hand, and fit pupils for achieving greater success in industrial pursuits? Before answering this question in detail, I will lay down scme general principles which I think should be carried out. 1. No attempt should be made to teach any specific trade. 2. There should be some work in each of the classes in public schcols intended to develop hand skill. 3. Buys, as well as girls, should receive industrial training. 4. The work done should be of such a character that all the pupils in a class may engage in it. 5. Below the fouth-book clacees boys and girls should do the same work ; above this grade the programme may differ, so that the sexes may engage in the work best adapted to qualify them for their future occupations. 6. The materials used, and the apparatus required, must be inexpensive. 7. The products of the work should be suited for practical use. 8. The work done in putblic and high schools should be supplemented by a few technical schools, and by evening industrial schools. I recommend the following course of Industrial work for the various grades in public schools, 1. Industrial drawing should be taught in all the classes. The Kindergarten system of drawing is, in my opinion, best for first-book classes, and the "Walter Smith" system, approved by our Educational Department, is the best for the other classes. In this subject Ontario is making rapid strides. The thanks of the teaching profession are due to the Honorable Minister of Education for the progressive and liberal course he has recently adopted in providing, free of charge, for the teachers of Ontario the means of learning how to teach this important subject, by establishing vacation drawing classes in charge of competent and experienced masters. One of the great hindrances to the successful introduction of drawing into public schools everywhere has been the generally received opision that " artists alone could teach drawing." This is a great mistake. Teaching and painting are both arts. It would be folly to conclude that because a man is a great teacher, therefore he can paint; it is nearly as fallacious to conclude that because a man is a great artist, therefore he can teach. A yood teacher with a fair knowledge of the principles of industrial drawing will be more successful in teaching drawing than an artist who has bad no training in the art of teaching. It is full of promise for the future to see earnest teachers coming from all parts of the province during their vacation to qualify themselves for teaching drawing in an efficient manner. 2. The "occupations" of the Kindergarten form the best basis for industrial training, and are perfectly adapted for introduction into the first-book classes in graded schools. They may also be used to a considerable extent in ungraded schools, as the junior pupils may be profitably occupied with some of them, without the direct supervision of the teacher, while not engaged in class recitation. These occupations were designed by Froebel to occupy a part of the child's time during each day in the Kindergarten; and are intended to continue in a more extended and more definite form under the guidance of the teacher, the same course of "learning by doing" $\mathbf{p}$ 'actised by the child before coming to school. The more thoroughly one investigates his nystem of "Gifts and Occupations" the more clearly he becomes convinced of their adaptation to the nature of children from five to seven years of age, and of their power to attract attention and develop both the intellectual and the industrial abilities of the little ones. Many of Froebel's beautiful Kindergarten songs are also specially designed to cultivate the flexibility and the power of the fingers. His gesture songs, and some of the most appropriate occupations, can be taught in the Normal schools: and by means of vacation classes one lady from each county model school could be trained in them. In this way all teachers coming into the profession would gain a sufficient practical knowledge of these songs and occupations to enabie the m to introduce them into their schools. One of the most important results of such a course would be, that young teachers might learn that yawning and droning before a reading tablet is not the most effectual means of de-
veloping a child's intellect.

The Kindergarten occupations which $I$ think might be satisfactorily introduced by teachers, without requiring to have an intimate acquaintance with the principles and practice of the Kindergarton itself, are paper pasting, paper folding, sewing on cardborard, stick laying, mat wuaving, modelling in clay, peas work, and drawing. It must be carefully borne in mind that these form but one department, and a comparatively minor one, of the Kindergarten. 3. For the second and third book classes I recommend,
for both boys and girls, plain needle work, especially knitting. We have experimented to a considexable extent in Toronto with a view of firding the mast suitable occuration for the pupils in these clasees, and can find no other that so satisfactorily fulfils the escential conditirns as lnitting. All can work at it, and do the same kind of work at the same time; the process of learning it is progressive and can be illustaated $t y$ the teacher on the blackboard, or with twine and large wooden netdles (pointers suit admirably); the material used is inexpensive; the products are useful articles, and the finger cultivation is excellent. Practically it answers every test. The only objection I have ever heard raised to it was a simple snecr ly a newspaper correspondent to the effect that "it would make the boys girlish." Personally I have little sympathy with the customs of society which draw a sharp line between the habits of boys and girls up to the age of twelve. Boys would be improved by being in some respects more like girls, and girls would be much better if they were tllowed to indulge in many of the exercises which hoys alone are now permitted to enjoy. Boys haye no right to a monopoly of the health giving games, and swimming, rowing, etc., nor should girls alone receive a training of their hands. It is somewhat unreasonable that the girls, whose fingers are cultivated at home by various kinds of needle work, household occupations, piano playing, etc., should be the only pupils for whose finger-training the schools generally make any provision. The poor boys whose "fingers are all thumbs" for lack of exercise, and who require to have more skilful hands than the girls, have too long been neglected by the educators. As most educational reformers have been men, it may have been their gallantry which led them to devote so much attention to the hands of the opposize sex. But, independently of this consideration, the answer to this objection to knitting in schools is easily found. There is nothing inherent in knitting which makes it essentially the nork of women only. It would be a poor definition of a man to classify him as "the animal that does not knit." Willingness to work, habits of industry, and trained fingers neither degrade a man or render him effeminate. Quite the contrary ! The knitting of the future will not be done to a large extent either by men or women, but by machines, so that the objection raised will soon have less of apparent force than it has now. Do boys dislike knitting? Decidedly not. They take a great interest in it, when it is fairly presented to them. Sume even of our fourth-book classes in Toronto have done exceedingly well in knitting, and have entered with much spirit upon the work of making their own comforters, muffetees, etc. For rural schools where straw can be obtained easily, I recommend the plaiting of straw braids for summer hats in addition to needle work. It must be borne in mind that these oocupations are recommended not on account of the practical use that may be made of them, but as means for training the hand, and incidentally to cultivate the mind. 4. For the higher classes, especially in cities and towns $I$ recommend the establishnent of workshop schools, not as 1 have already stated for the purpose of teaching any particular trade, but to accustom boys to handle a few tools in common use.

The ability to use a saw, plane, hammer, chisel and square well, will be of service to a boy in any walk of life; and in acquiring this ability he must necessarily obtain practical experience and general ideas concerning the use of tools, which will qualify him better for learning any trade or mechanical occupation.
Work-shop schools have already been introduced very successfully into Boston and Gloucester, Mass., in connection with the public schools. They have long been conducted in England and European countries as special schools, and as evening schools. Superintendent Marvel, of Gloucester, reports concerning them as follows: "The class was first opened as a Saturday class, but, as was expected, comparatively few boys were willing to give their holiday time to shop work. In October, 1880, arrangements were made to accommodate pupils in the carpentry class one-half of each afternoon session on Monday, Tuesday, Thursday and Friday of every week (two classes each session). By this change regularity and punctuality in attendance have been secured; and from a membership of thirty pupils, in three classes there was an immediate advance to a membership of ninety-six in eight classes, each receiving one hour per week. A few girls (six) were permitted to join one of the classes in 1878. There are now two full classes of girls, and there is one class composed partly of each sex. The work of the girls is equally as good as that of the koys, and they seem to enjoy it heartily. The attendance is entirely optional, nearly one-half the pupils in
the firt anl secoul classes of the tiwo largor seloools dosiring to antend. There is no compalsion whatever oxeopt that, white members of the indartrial chass, the pupils are requireal to be as attentive, inhastrivis, amb-ordurly as during any portion of their school work. There has boen a traming in the natu of the implaments ats ah, in thas best in:thols of employmo of oso implemints, constunt attuntion to thuse h.bits of methoul ind systum which are nucessary to securo foon worl anywhere, anil continned practics of the hand and cyo in mison, requiring closs application as well as clear purcuption culd aecurato manipula. tion. Tho result is tungible, and the proficiency is measured by no arbitrary standard of percentages, but is clearly defined, anil may by stimated with mach mure phecision than in any uther lins of sthool work. I du not have of any manner ta whech fifty to cighty hoars can be cempluyed in any form of education where the practical results can bo mure satisfacturily letermined. If the pupil never sees saw, hammer or plane again the training he has received will be of value, whatever his vocation." The report from Boston i, equally dufinite in its approval. It says: "From the beginning the soltoul went on with unbroken and sucecssful regularity. The order was good, tho pupils interested. It is dolightfful to sou tho eaper desire menfousted everywhere to do the day's work well. There was no absence, no tardiness. Here and there a cumplaint was made by the teacher of some secoml-class bey, thant he was nut doing the work well in his own room; but the pupil! in erory caso was so anxious to remann in the "carpsntur's" class that a world or two of warning was sufficient to bring his performauce up to tho standarid again. I consider that the results: go far to prove that manami trammg is so great a rulicf to the ituration of sclivol work that it is a positivo benefit rather than a detriment to the course in the other studies." This last sentence is a practical answer to the oljection that has, no doubt, arisen in the minds of some who have been listening to nay suggestions. There is a large class of teachers, "ho when urgud to intrulucu calusthemics, or music, or drawing into their selools, answer languidly: "We have no time for them." Experience proves as clearly as anything can bo provel, that whure nost attention is paid to these subjects thero is most timu left for real work at the other suljects. Tho teachers. who aro foulibh enough to attempt to mako their pupils woilk sixty minutes pro hour for six hours per day, are bound to fail. It is physically imposiiblo for haman beings to do this, and at tho sams time work with tho vigor and earuestness ossencial to success. The "fatiguo point" is speedily reacled in ochools taught by such teachers, and montal work done after this point is comparatively profitless and fearfully exhaustire Furty fite minates per hour is the turie for actual study in the best molel school in Europe, that in Brussels. It is the weariness of school work that kills, and not the amount of work accomplished. The best relicf from mental work is physical Tork, at calistheuics, or some andustral work. In addition to this I hare triod to show that the uso of the hand m making things is in azcorlanco with nature's method of toaching and really tho best method for developing (not storing) the mind. This view is sustained by a resolution adopted by the American Iustituts of Instruction in July, 1832, as follows: "Wo recommend the introduction into schools of iustruction in the use of tools, not for application in any particular trade, but for developing skill of hand in the fundamental manipulations connected with the industrinl arts and also as a means of mental development." The repart concerning the shop schools, in conuection with the public scliools of Paris, where the pupils work a little more: 20 than they study, says: "The bogs who work and study fall rery little behind the boys of the samo ago who do nothing but study. The working boys are romarizably lealthy, strong, good-nitured and orderly." I wish these ndjectives could bo applied to all Canadian school boys. To make them do so, the first steps mast be let to them, " learn by doing," and to gire them pleaty of calisthenic oxerciso overy hour they are in the schoolroom. Ono hour par week spent in working with tools would aid in secaring the more rapid ndvancement of the papils in their studies, oreci if it was only to be regarded as a clango of work, and a reliof from the weariness of constant application to study. It wonld be of still more importance, howerer, by affording the mind an opporminity for develop:ncut in the inost natural namaer by roquiring concentrated action of the mental powers to guide tho linad.
For the senior girls tho most useful occupation is that connected
with a traming in the varrous kinds of sewing, and in cutting out and fitting tho most simple of thor own garments. Cuttung from patterns is au accomplishment that can bo taught by the regular teachors in citews and lownas. In rural districts so fow pupils are old enougls to receive lhas kind of instruction and so many of the tenchers aro men, it wall gener.lly bo fume best to confine the mastrial work in them to the cuarse recommended for tho lower classes. Malo teachers will usually be able to find some of the older girls who can illustrate the steps in knttuns to the younger pupils. In cutting out, old nowsp.pers should be used instead of cloth, untal a sufficent degree of proficioncy hats beon acquired. It may bo objected that Cauada is nut a minuficturng nation, and theretore wo du not need to give our children an industral education. I answe: that tho education for whel I plead 18 not an education " in industries, but for industries," and such an educiation will be most beneficial to all who take part in agricultural and mechanical pursuits. There can bo no doubt that mill tho civinzed nations of the world educators aro giving mure attention than formerly to this important suljoct. In addition to the large number of technical and puly-technte schools throughume Europe, schonls for special Lades are rapudy mereasing. There aro over fifty in Bulgum, more than a hundred in Swit\%erland, nearly fifteen hundred in Germany, and nearly a thousand each in France and Austrin. Nearly fifty instituucus for traming in agriculture and mechanical arts have been futuded an the Unted States, and undor the central government they are ripndly increasing. To use the words of President White, of Cornell Unversity, "thas movement is not to bo scolded out of existence by sold roviow articles, or puoh-poohed out of existenco by pleasant magazue artucles." Thero are tiro respects in which educ.tional offorts in mdustrial uducation appear $u$ ne to be defective: (1) Most of the attention paid to tho rubject has been given to the higher mdustrial inst1tutions, the Scientific and Miechanical Unversittes, to the neglect of a broad primary course as a foundation for this superior traming. (2) What hittle attention has been glven m Public Schools to industrial traming has been given to tho grrls, who need it least and who receive nost of such tramng at home. I have tried to suggest a remedy for both these dofects; a remedy such that it will also aid in securing a bettor education in the ordmary branches of the Public school course.

## THE OHIO TEACHERS READING CIRCLE.

E. A. Jones, Secretary of tho B.ard of Control, gare a brief history of the urganization of the Reading Circie and its operations durneg the first year. There are more than tiwn thousand members, the greater part of whom have completed the courso prescribed for the first year. Certilicates have been prepared for those who havo cuapleted the first year's course, and about five hundred of these have already been issued. The Reading Circlo is proving a valuablo part of oxr educational effort.
The courso prescribed for the second year is as follows :

## I. pedagnay.

Currie s Common School Education, or Caldermood on Teaching.

## II. Enchish Literature.

Shakespearo's Julius Cesar, and Irving's Ssetch-book.

> III. Amemcas History.

Tho Rovolution, and the Cunstitutional Period to the cluse of tho War of 181 ?.

> IV. Natcral Science.

Brown's Physiology, or Natural Scienco Primor of Physiology and Bygiene.
Printed slips containing the course may he obtained by addross. ing the Secrotary at Massillon, Ohio.-Ohio Educational MSonthly.

> The Agent in P. E. Island states that every teacher in that Province will subscribe for the WVeekly Canada School Jotirnul and secure Ayre's "Verbalist" and "Orthoepist."

## Examination (Qurstions.

## PROMOTION EXAMNATION. - NORTH IMASTINGS USIFORN PROMOTION EXAMINATIONS JUNE 1884.

## ENTRANCE TO FOUBTA CLASA

SPELLING.
Time- 45 Minutes.
N. B. - Dicute the Puncluation Marks.

1. There are many authenticated accounts of trarellers who, Then met by wolves, would have inevitably been devoured had they not terrfied their enenies by letting a piece of cord trail behind their carriage.
2. All along the trail lie the skeletons of canoes abandoned by their owners, together with broken paddles and remnants of camp
furniture.
3. These salutary seeds yield a pernicious juice.
4. Unconcious of his strel!gth he turned on his assailant.
5. Tigers are morose and untamable.
6. You can buy a blanket or a file, an axe or a pair of trousers, a pound of sugar or a barrel of nails, a roll of tobacco, a tin bettle or a pair of moccasins.
7. "How could it fail ?" said Midas.
8. Heaped in the hollows of the grove, the autumn leaves lie dead;
They rustle to the eddying gust and to the rabbit's tread.
The robin and the wren are tlown, and from the shrubs the jas,
And from the wood-top calls the crow through all the gloumy dits. Where are the flowers, the fair young flowers, that lately sprang and stood
In brighter light and soiter airs, a beautcous sisterhood.
9. Carrot, beet, celery, bencfited, compel, moneys, proprietor, niece, European, Gieat Britain, Arctic Ocean.
Value 100-Fur every error in Spelling take 3 off; in Capitals and Apustrophes 2 off; in Punctuation I off.

## GEOGRAPHY.

## Time-2 Hours.

1. Define-meridian, parallels of latitude, equatorial diameter, estuary, ide, arctic circle, zones, tropies.
2. What is the longitude of the North Pole? What is the highest longitude? What is the highest latitude?
3. Give, at least threc, clearly; expressed reasons fur concluding that the earth is spherical.
4. Make a list of eight counties in Ontario and opposite to the name of each write the names of two inportant places in it, exclusive of the county town.
5. Beginning at the east, namo the citica of Ontario. Name also one railway entering each city.
6. Through what rivers, canals, and lakes rould a vessel pass in going from Montreal to Chicago ?
7. Sketch an outline map of the Baltic Sea, marking the inlets and islands, and the countries that border on it.
8. Name four importint wheat-growing countrics; two in N. America, one in Europe, and one in Asia.

## ARITHNETIC.

Time-s Hours.

## Note.-Full work required.

1. Detine-fraction, mixed number, simple fraction, multiple of a number, cube, square, cubic yard.
2. A person in making a journey of 189 miles 152 rods 2 feet, travels at the rate of 26 miles 427 yards a day; in how many days will le complete the joumey?
3. Alultipiy 29 acres 158 sq . rods 7 sq. fect by 84 (by factors.)
4. 11,w unch hay at $\$ 10.50$ a ton should be received for 3745 fect of lumber at $\leqslant l y$ a thousind feet, 480 lbs beef at 84.75 per cu1., :and a pile of wood 14 feet long, Il feet high, and c feet wide,
at $\$ 2,55$ per cord 3
b. Find the least number that may be exactly divided by 0,11 , 51, and 36.
5. How much will the lumber cost in a sidewalk $\frac{1}{2}$ mile long and 6 feet wide, at 89 per 1000 sq. feet ?
6. Arrange in order of magnitude, (greatest first, the follow-

7. A cistern 9 feet square contains 1092 cubic feet; what is its depth?
8. A man owning to a lot, sold $\frac{\square}{b}$ of his share for $\$ 2800$; what was the value of the whole lot?
9. I bought 2 tubs of butter, the tubs and ${ }^{\circ}$ butter together weighing $111^{3} \mathrm{lbs}$, and the tubs alone weighing $7_{8}^{8}$ lbs and 8 lbs respectively : what was the weight of the butter?

## Count 100 Maíls a Full P'aper.

[The teacher will please note that full marks are to be given for correct solutions only. For answers mearly correct (where the method is quite correct) from $10 \%$ to $50 \%$ may be given. In marking, neatuess of arrangement, ©c., should be takon into account.]

## THIRD READER.

## Time- $1 \underset{2}{\frac{1}{2}}$ Hours.

1. Write this extract substituting, for the words in italics, other words haring the same meaning. -

When reposing that niyht on my pullet of straw, By the rolf:scariny fagot that yuarded the slain,
At the dead of the nighti a surect rision I snw,

> And thrice cre the morning Idreamt it again.

Methought from the battle-field's dreadful arrecy,
Far, far, I had roamed on a desolate track.
2. Expliain fully the following expressions:-
(1) Heart hatred of foreign aggression.
(2) Thirsting for revenge. 3) Participators in the game.
(4) Apparently not suspecting any artifice. [faction.
(5) A momentary commotion. (f) An air of mingled stupe-
3. Distinguish between die and dyc, boy and buoy, sight and site, lesson and lessen, strait and straight, sore, soar and scleer, seem and scam.
4. Write, in your own language, the parable of The Good Samaritim from the following hends:-

A journey between two Eastern cities,-what happened to the traveller, -state in which he was left, - cettain passers-by,-their conduct, -lesson to be learned from the story.
5. Write from memory the first four stanzas of a poem which is an answer to the question the asking of which by a Jewish lawyer led Jesus to relate the parable referred to in IV.
Be careful about capitals, punctuation marks etc.

## - GRAMMAR.

## Timc-O Hours

1. Analyze the following, naming the simple subject, cnlargements of subject, predicate verb, completion, and adverbial enlargements of predicate verb. -
(a) Hc beforc his cottage door mas sitting in tho sun.
(b) By him sported on the green his little grandchald Wilhelmine.
(c) From peak to peak, the rattling crags among, leaps the live thunder.
(d) Never had there been 30 sreat an excitement in town.
2. Parse in full the italicized words in the sentences analyzed.
3. What is an adrerbial phrase? Writo sentences analyzed. adiverbial phrases equivalent to-shortly, achence, there, when, thus
4. Write the second person singular of each of the indicative tenses of-sport, do, learn ; the feminines of-executor, monk, earl, czar; and the comparatives of - common, able, late, near. and well.
5. Write these sentences correctly, giring reasons for changes made-
(a) Ho rode to town, and drove six cows, on horseback.
(b) He forgets to cross his ts or dot his is.
(c) Wo have opened $\overline{0}$ cases of mens' and boys' oreralls.
(d) He answered petter than any boy in his class.
(c) He attends school regular.
(f) The children sung hymns.
(g) He would have froze to death.
(h) Go and lay domn for a rinle.
(1.) If anyone wants it let lume say so.
(One marl for eich correction, and tro for the reason.)
6. Give the past indicativo and past participlo of-do, carry,
wim.
swim.

## COMPOSITION.

## Time- $1 \frac{1}{2}$ Hours.

1. Contract the following statements into ono complex sen-tence:-Steel is made. It is made by heating small bars of iron with horn or bone shavings. Or with other inflaminable substances By this heatiug the metal acçuires finer grain. It acquires a more compact texture. It becomes harder. It becomes more elastic. 2. Supply the proper wordsin the following elliptical sentences:I shall go and - (lay or lie?) down. The books are— (laying or lyiny?) on the floor. He- (set or sat? ; on the bench till sundown. They have - (begun or beyan?) their work. The professor us Cerman. Have you (haken or shook?) the shaw-
The baby has (fell or falleit 1) down stairs. The hen is (setting or sitting?) on its eggs. At what hotel are you - (staying or stopping?). It hasn't -(came or come?) yet.
2. Correct or improve the language in the following sentences :My sister called and we both took a walk. The boy said it and repeated it again. My books are to home. She married a man worth lots of money. The pupils took the measles all to once. Hands up ! what cape south of Florida ? James was the tallest. She seldom ever uses the wrong word. They say he has got bad health:
3. Punctiate and put capitals where they should be in the following :-have you read much poetry yes $i$ have read wordsworth tennysun bryant and a fow french poets but i do not understand french well enough to enjoy poetry in that language.
4. Write a leiter, containing not less than 8 nor more than 16 lines, to a friend living in Toronto:-
Topics :-Yuur school. Situation. Number of teachers. Number of pupils in your room. Number of classes. Hours of work. Holidays. Subjects of study.
(Three marls for intruduction of letter, 3 for conclusion, 24 for composition.)

## ENTRANCE TO SENIOR THIRD CLASS. <br> grammar. <br> Time-lit Hours.

1. There arc hearts hurd enough to resist the force of wrath, the malice of persecution, and the fury of pride; but there is a power stronger than any of these ind hard indeed is that heart that can resist Jove.
rr! lle part of speech to which each of the words in italics belonge.
2. Define- sentence, ndyerb, preposition, composition, imperative sentence, complete subject.
3. Analyze the following, naming the kind of sentence, and the subject and predicate:-
(a) Many years ago there was a steamboat plying on one of the American rivers.
(b) One day a gentleman called upon Captain Gordon in the cabin.
(c) So ended Hannibal's first campaign in Italy.
(d) Under her torn hat glowed the wealth

Of simplo beauty and rustic health.
(c) What is his name?
(f) Show ne your nest with the young ones in it.
4. Write these sentences, making any corrections that appear to be necessary :
(a) I haint got no slate.
(b) Give me them pencils.
(c) Me and John scen it.
(d) He told James and i.
(c) Old Jones has lots of money.
(f) He has just came.
(g) I catched ten fish last night.
(h) This road is arful muddy.
(i) Sarah Aan Patterson is our teacher.

## THIRDREADER.

## Time- $1 \ddagger$ Hours.

1. Writo tho following passages, using instead of those parts in italics other words or phrases which will gire the same thoughts :-
(1) Ample scope for cuscration.
(2) A gentleman teas once possescel of a dog of simyular fidelity and sagacity.
(3) Insane with terath to be thus outwitted, the foe rushed from his cozert.
(4) Surreyed their humble foster-parents.
(J) This seemed to decide her tulucertainty.
(b) Was forming this resolution.
(7) The wood was scarce, oving to our proximity to the natire villaye.!
(8) "A school" of sporm whales.
2. That, father, will gladly do : "I's scarcely afternoen -
The minster clock has just struck two,
And yonder is the moon. And yonder is the moon.
(1) 'Name the punctuation and other marks in the verse.
(2) Who is the speaker? Where did she live? What did she agree to do? What season was it?
3. Speak gently ! Ho Who gare His life

I'o bend men's stubbom will,
When clemeuts were in fierce strife, Said to them, "Peace, be still!"
(1) Explain the words and phrases in italics.
(2) Who "gavo His life?"
(4) What event in His life is here referred to?
(4) Give some reasons for thinking gentleness is better than severity.
4. Where and what are-Austria, Dundee, Delaware, Buffalo, Nile, Kentucky.
5. Tell briefly what you know about-Grace Darling, Casabianca, and Bruce.
6. Write from memory the last troo stanzas of "Look aloft!"

SPELLING.
Time- $\$ 5$ Minutes
N. B.-Dictate the punctuation marks.

1. He, partially erect, would soize me with his proboscis.
2. My brother-in-law once had a perilous adventure.
3. I'll employ the boy wearing the parochial livery.
4. We put the agility of the little rogue to a pretty eerere test.
5. Of course, the Indian's gun ras levelled in an instant.
on in a vice.
6. The princess and half the realm.
7. Exhibiting, fursuer, npp ecinte, occas o:ally, forty-four, broad, hundred, British Culumbia, sicbruary, barluy, Tuesday, parliament, rye.
w. The hair is very coarso indeed, brown towards the end, and whitish towards the base which is rather wavy, presonting an appearaica as if it had passed through a miniature crinping machine.
8. The smoke encircled his head like a wreath.
ielly. His stomach shouk, when he laughed, like a bowl full of
9. Forgetting her burthen when this she had said,

The maid superciliously tossed up her head:
When, alas for her prospects, her milk-pail descended, And so all her sehemes for the future were ended;
This moral I think may bu safely attreched,
Reckon not on your chickens before they aro hatched.
Value 100-For every error in Spelling take 3 off; in Capitals and Apostrophes 2 off ; in Punctuation 1 off.

## GEOGRAPHY. <br> Time-2 hours.

1. What tornships of Hastings adjoin-(a) Northumberland, (b) Lennox, (c) Addington, (d) Peterboro?
2. Canada contains 13 political divisions : name them, specifying those which are merely territories.
3. Define, in complete sentences-sound, watershed, riverbasin, rapids, cataract, archipelago, and equator.
4. How are Wardens, Sheriff, Judges, Reores, Governors General, Lieutenant Governors, and Magistrates appointed? Of whom is a County Council composed ?
E. Sketch an outlino map of N. America, locating on it the councrics (omitting those of Central America), and tracing the c urises of the Mackenzie, the St. Lawrence, the Columbiacing. the Rio Grande, the Culorado, and the Missouri rivers. (N.B.-Mark
closely for this.)
5. Truce the courso of the water from Lake Nipissing to the

## Atlantic Ocean.

7. What and where aro-Yucatan, Delnirare, St. Elins, Porocatapetl, Titicaca, Blairton, Azores, Guinca, Tasmania, Now Tie iand, Nova Zombla, Sandwich. Answer in complete sentencrs

## ARITHMETIC.

## Time-3 hours.

Note. - Full work required.

1. Define-denominate number, quotient, factor of a number, Roman notation, reduction, donomination of a numbor.
2. Write neatly the table that is used in worghang pork, hay, Sc., and the table that is usod monasuring distances.
3. In $\overline{5}$ miles 269 rods 15 feet how many inches?
4. Change 4729334 sg . ft. to acres, rods, dec.
5. A drover bought an oqual numbor of shoep and hogs for S1482; he gave $\$ 7$ for a sheep, and $\$ 6$ for a hog: what number of each did ho buy?
6. H N m my barrels of thour at 85 a barrol should be received for 3740 lbs . of oats at 35 cents a bushel, 4260 lbs . of wheat at $\$ 1.10$ per bushol, 540 lbs . of cluver seed at $\$ 3.60$ a bushel, and 510 lbs . of beuf at $\$ 10$ a curt. 3
7. A man burrows $\$ 3500$ for 3 yoars, paying, for the use of it. $\$ 8$ per year for evers $\$ 100$ borrowed; how much will the use of the money cost him?
8. Find a number such that if the sum of 89 and 200 be subtracted from it the remainder is 12 times 399.
9. The quatient arising from the devision of 9281 by a certain number is 17 , and the remainder is 373 ; find the divisor.
10. Find tho total cost of 3 cwt . 12 lbs .8 oz . of butter at 20 cents a lb., 12 gallons 3 qts. of vinegar at 7 cents a pint, 1020 eges at 15 cents per dozen, 13 bushels of apples at 10 cents por peck, 4500 feet of lumber at $\$ 10$ per 1000 feet.

Count 100 marks for each paper.
[The teacher will please note that full marks are to be given for correct solutions only. For answers nearly correct (where the method is quite correct) from $10 \%$ to $50 \%$ may be given. In mark. ing, ueatness of arrangement, $\mathbb{N c}$., should be taken into account.]

## COMPOSITION.

## Tinc- $1 \frac{1}{2}$ hours.

N.B. - Capitals and marks of punctuation must be correctly used.

1. Name the marks which are used at the end of written or printed sentences.
2. Describe Mrontreal, Halifax, Pictun, and Ottara. Let the description of each place be a single sentence which shall contain the answers to the following questions: - What is it? In what County is it? On rehat body of wouter is it situated?
3. Write the story of "Joseph being put into the Pit," observing these headings:-(1) When was it ? (2) Where was it? (3) Who was it? (4) What was it? (Place the ansucer to this as the subject of the aneridote.) (5) How was it done?
4. Write statements or questions containing the following expressions:- the hideous uproar, attempt to describe, intending to rua away, proximity, probability, venture, outcasts, consistence of gyrup.
5. Combine the following statements into a simple sentence:Sugar is a sweet, crystallized substance. It is obtianed from the juice of the sugar-cane. The sugar-cano is a recd-like plant. It grows in most hot countries. It is supposed to be originally a native of the East.
[Note for the teacher.-Bigsby's "Flements of the English Language," published by Ginn. Heath $\mathcal{A}$ Co., of Tromont Place. Boston, Mass, D.S.A., is strongly recemmended to thuse who d:sire to teach Composition rationally. Its mailing price is $3 \overline{3}$ cents. -W. 11.
entrance to jusior third class.
GEOGRAPEY.

## Time-2 hours.

1. Draw a map of the County of Hastings, lucating (carefinty) on it (a) the Townships, (1) Belleville, Treatua, D setwer, St rlugg, Madoc, Marmora, Maynooth, and (c) the course vi the Trent, Divira, and Crow rivers.
2. Name the railways (completed or nearly completed) of our country.
3. Define, in complete sentences-oscan, sea, gulf, tributary, plain, lake, and cape.
4. Name a lake on the boundary between Hungerford and Tyendinaga, one partly in Peterbor, ame ono in each of the following townships:-Huntingdon, Limerich, Tudor, Wollaston, Faraing, Herschel.
5. Nurs tho tivo in ist imporiant omploginents of the peoplo of our country.
6. Na:no tho Warden, tho Shariff, a:al the Judges of tho County; the R aevo of your own Turnahip, and tho mombers of Parliament for North H istings.
7. Namo the strotens, pustofit:ss, and villages in your nwn Tornship.

## SPELLING.

Tiac-, minutes.
N.B.-Dictate the punctuation marks.

1. The king grthorod together great armies.
2. The dostor meized wirm th snuls in which he wrappgd her.
3. They were busy mikits prosents for that important night, Christmas Eve.
4. You wouldn't buy a new parasol.
5. I'll not describe how prettily they were carved out ivory.
6. Ask your unclo and couzins to get a couple oi sickles ready.
7. Presently tho hare said, "Good-bys, my frienl, your pace is too slow."
8. Yoi will suroly succeed if you steadily persevere.
9. 'Two huntang wore coming towards the famous glen.
10. The culling is not wholo, there's a holo in it.
11. Hwing sasisfied himself with sugar he walkod out quito loisurely.
12. 'They've tisken such pains to construct us a dwolling.
13. 'Tumurrov wo'll go tu the brazier's and get a new collar.
14. Loaded his pistol with lead.

1i. Tossed the cults' manties oder their brows.
16. He doesn't adviso yuu to believe him.
17. Tuesday, sancer, scissors, onion, byet, cubbage, maggon, quotient. divide, factor, Wednosilay, model, harness, carriage, carrot: Fubruary, ninety, forty-four.

Value 100.
[For every error in spelling take 3 of; in capitals and apostrophes 2 off; in punctuation 1 off.

## COMPOSITION.

## Tine-1t hours.

1. Write these sentences with the right words in tho blanks:The onions - growing rapidly.
——they here -i The boys -_ been sick.
——the lilies watored? -
Most of the - worn were - by the farmers' wives and from the - of --own -. The people had--of good and cheap food The _was - and produced splendid -The - were - of fish.
2. Make statements or questions each containing one or more of the following words or phasises:-very plontiful, the best fun, teeth like pearls, prosence of mind, blessing, chestnut.
3. Writo the following sentences, making currections where such are necessary:-i tolod you you' was wrong. Me and Earry is to blame. How many horses has your boss got I I done my work quickly. I and Johy are learning Honry his lesson. Sho has five pars ni gloves. His walking-stick is five foot long. Wo seen the churel.
4. Writs questions (using have or has) about-the snow, five men, my C!aristuns presents.
$\bar{j}$ N iti is statement out of these words:-hisses, his, mamma, him, lowe words, gives, of, plenty, and.
5. Writo full sentence-answers to tho following questions:What are the names of the three villages of Hastings? What things raised, or made, on the farin do our farmers sell? What ure tho five principal parts of a rocking-chair?
6. Write a composition of five sentences (subject "Our School"). In the first sentence, tell its name; in the second, where it is situated; in tho third, tho teacher's name; in tho fourth, tho number of pupils ; and in the fifth, name, at least four things you learn in it besides Reading, Writing, Geography, Spelling, and Arithmetic.

## Count 90 marks a full puper.

In valuing 7 , give 2 for the subject and 5 for each sentence correctly written. Noto writung, spalling, eapizi.als, and punctuation.
[Note for Teachery-Capitals, poriols, and marks of interroyation must be correctly used in all the answers when necossary.]

Teachers, stationery is cheap, postage is only three cents, write us frequently and briefly.-Education is alive.

## ARITHMETIC.

Time-3 hours.
Note.-Full work required.

1. (a) Writo in words 2,$019 ; 1,020,6 c 0$. (b) Writo in figures XCIX; soventy thousand and twenty-fivo; nime liundred thousand and tifty-five.
2. (a) $8787540-986497$. (b) $64329 \div 48$ [by factors].
(c) $7489>8007$.
3. Find the sum, difference, product, und quotient of 4803 and
4. Write the proper name afior each answer.
5. Subtanct 97639 as often as you can from seven hundred thousand.
6. The sum of four numbers is 20,000 ; three of them aro 697 , 4090 , and 8976 ; find the fourth.
7. For a fluck of 21 shecpand 43 lambs $n$ farmer received $\$ 401$. For the lambs he got $\$ 2$ each; what was the price of a sheep?
8. How much money should a person get for 87 doz. egga at 15 cents; 49 lbs . butter at 22 cents ; and 178 lbs . wool at 45 cents ? Find total amount.
9. The product of two numbers is twenty-one thousand three hundred and three; one of them is 789 ; what is the other?
10. A farmer sold 45 bushels of wheat at 90 cents per bushel, and 60 bushels of oats at 42 cents per bushel: with the money received he bought cloth at 73 cents a yard. How many yards did he buy?
11. How many cows at $\$ 4 \overline{0}$ each should be given for 840 sheep at \$18 each?
12. Write correct definitions of quoticnt, factors of a number, composite number, product, multiplicand.

## Count 100 marks a full paper.

The teacher rill please note that full marks are to be given for correct solutions only. For answers netely correct (where the method is quite correct) from $10 \%$ to $00 \%$ may be given. In marking, neatness of arrangement, de., should be takea into account.
For questions 1, 2, and 11 allow nothing for incorrect answers.

## SECOND READER.

## T'ime-1\$ hours.

1. Many of the Eastem nations had been taught from the renotest ages to expect the birth of a great and wonderful king, who should reign over all the people of the earth.
(a) Who was the 'wonderful king'?
(b) Name two Eastern uations. Why called Eastern?
(c) What is meant by 'remutest ages'?
(d) Give the titlo of the lesson from which this is taken.
2. There are two lessons in the Second Reador entitled "Little Things"; what does each lesson teach us ?
3. What is a pilot? There are two pilots spoken of in a short poetical lesson in tho Second Book; one leads us to perform whatover we undertake, the other hinders us in all our undertakings. What are their mames?
4. Mrr. MeKay's ferrent invocation was in itself an abuudant reicard for their labors.
(a) Give meanings of words in italics.
(b) Tu whom does 'their' refer?
(c) What 'labors 'had been performed?
(d) What was the 'reward' received for the labor done?
5. Iu the lesson on "The Bold Boy and the Cuward," in what two respects did the buld boy show he had true courage i
6. Give two meanings for cach of the following words-bear, checred, repaired, soveral, cummon, present; also givo words meaning the opposite of-ignorance, wealthy, fail, lamenting, mourned, descending.
7. I read the 'swect story of old.' Tell this story in your uen words.
8. Write two verses of "The Child's First Grief."
9. And can I over cease to be

Affectionate and kind to thes,
Who wast so rery kind to mo,
My mother.
Oh no! the thought I cannot bear ;
And, if God please my life to spare, I hope I shall restawl thy care,

My mother.
(n) Write the above verses using your own words in place of those in italics.
(b) What is "the thought" in the first line, econd verse.
(c) In what ways does this lesson tell us we can partly repay a mother's kindness?

WRITING்.
mintrance to junion thimd class.
Second Reader, page 183-"The Birth of. our Saviour": first paragraph.
entrance to senior ili. and iv. classes.
Third Reader, page 288-" The first of June" to "happy conclusion."

> Value-50.
[N.B.-This paper must not be seen by any person but the teacher until the whole examination has been completed.

## READING.

enteance to junion thind class.
Second Reader, page 200-" We presently found" to " and now, try again."
entrance to semior thimd class.
Third Reader, page 131-"Suddenly the appalling and murderous" to "there was a troop of them."

## emtrance to fourth class.

Third Reader, pago 244-."The pale warrior, the friond of the Ottara chief" to "a legion of fiendish voices."
Value-A narimum of. 35 marks to be giren for ability to read the vords correctly at sight ; and of 35 marks for expression (including articulation, emphasis, and the natural rendering of the thought).

## 

IS THERE A SUBSTITUTE FOR THE SPELIING-BOOK?
"False in part is false in whole" is a rule in law in regard to evidence by which lawyers throw testimony out of court. Some teachers have acted on a similar plan in throwing the spelling-book out of the school-room. Wecause tho old spelling-book was wrong in part they discarded the use of the text-book altogether. Now they simply need a reformed spelling-book. If some teacher has the genius to teach spelling without a book, let him collect and arrange his words, giving his order and method of teaching in a textbook, in order that the ordinary teacher may have a guide. The great mass of teachers in this great field of education must have guide-books. A fers teachers may be able to teach spelling success. fully without a book, but they are few : the majority of teachers fail utterly in their attempts to teach spelling without a text-book $o^{n}$ the subject. The great necessity of reformin teaching spelling is a reformed text-book subjected to its lawful purpose. What is most needed is a good method of using a good spelling;book. This is the want of the vast majority of teachers. The cry of "Burn the spolling-book" has done much good in causing now and botter books to be made on the subject.

But this cry comes from the extremists. To put the averago teachor in a achool to teach spelling without a book is like putting a man out to sea in a bost, wilhout a compass, and telling him to steer for the opposite shore, which he cunnot see. His journey is aimless; ho is lost on the wide waste of waters. So the common school-teacher, without a good spelling-book, is lost in the midocenu of thousauds of words. His teaching is aimless, drifting to nowhere.
It is ovident to the careful observer of the tendency of educational reforms "that wherever the experiment of disponsing with tho spelling buok has beon the longost tried, a decided reaction in favor of the text-book has set in."

Spelling is an essential branch of itself: To teach spelling is a prime duty of the teacher, and not a secondary ona. If the teacher altempts to teach spulling as an after-clap to reading, geography;
history, etc., ho will most generally make it a secondary work, and the pupils look upon it as of secondary importance, while the minds of buth teachar and pupils are absorbed with the subject of the reading, lustory or geography lesson. Many good lessons in apolling may thus be taught in connection with every recitation, but for a thorough knowledge of words there must be a detinite time for a definite study of words. The authors of text-books on spelling are begiming to meet the demands of the times and furnish now and better books.

With a good text-book in hand the teacher wants only to understand the object of spelling and its practical application in the business of life, and he is able to do pretty fair work, and he is on the road to still better work. Spelling embraces the naming of the proper letters in a word; the proper enunciation of these sounds, which-may be called articulation ; and the proper pronunciation of the word, giving the proper syllabic accent.

The use of words should be tauyht in connection with spolling. There are three ways in which the knowledge of words is applied to the practical affairs of life, viz., in readin or speaking, in writing, and in the use of words.
To meet the first spelling should be taught orally, embracing enunciation, articulation, and pronunciation. The second demands that spelling be taught by writing, that is spelling proper, or putting the right letters in the words. Seldom is one called upon to give the letters in a word except in writing. There are so many letters in English words not sounded that words must be remembered. The third application calls for a study of the meaning of words. Spelling, then, must be oral and written to meet the demands of its practical application. Oral spellug is elvcutionary in its results, and aids in reading and speaking.
Writugg is the best mothod by which the child may become familiar with the proper letters of every word, and it must be led to practise written spelling continually. Children must be taught to judge the accatacy of the form of a word by seeing it and writing it.

With the true object of spelling in riew the teacher should have a book whel contans the essential words of a good vocabulary. The spelling-book should present a series of lessons on the study of these words-they should be arranged in their natural order, prosentung in the first lesson those words with which the pupil is most likely to meet first.

While spelling should be a subject of criticism of all written exercises comnected with every branch, yet this cannot be mado a substitute for the definite daily exercises in spolling, pronunciation. and the use of words as presented in the spelling-book. The textbook in spelling contains a better selection of words arranged in better order than the average teacher can select and arrange. There is perhaps one teacher in ten who can teach spelling without a text-book with some degree of success. Let then do without tho books if they can, nine-tenths must have a book. An educator who has spent years of study on the subject, observing the order in which words are needed, and the words which are used; selecting | and arrangng them in exercises to illustrate their meaning, can give them in a spelling-book to pupls, presenting a more definito and more satisfactory plan of word-study than the ordinary teacher can give them, and at the same time gromg the teacher a guidebook, into the application of which he may throw his own indivi-duality.-Iova Normal Monthly.

[^1]
## REMOVING DIFFICULTIES.

HY JACOB ADHOTT.

An effective way to oxcite interest, and that of the right kind, in school, is not to remore difticultios, but to teach the pupils how to surmount them. A text-book sò contrived as to make study mero play, and to dispense with thought and effort, is the worst toxtbook that can bo made, and the surest to bo, in tho ond, a dull one. The great source of literary or.jujomoit, which is the successful exercise of intellectual power, is, by such $s$, mode of $p$ esenting a subject cut off. Secure, thorefore, sovore study. Let the pupil seo that you aro aiming to secure it, and that the pleasure which you expect that they will receive is that of firmly and patiently encountering and overcoming difficulty; of penetrating, by steady and persevering effurt; into regions from which the idle and the incicicient are debarred, and that it is your province to lead them forward, not to carry thom. They will soon understand this, and like it.
Nover underrate the difficulties which your pupils will havo to encounter, or try to persuade them that what you assign is casy. Doing easy things is generally dull work, and it is especially discouraging and disheartening for ${ }^{\circ}$ a pupil to spend his strength in doing what is really diflicult fon him when his instructor, by calling his work easy, gives him no credit for what may have been severe and protricted labor. If a thing is really hard for the pupil, has teacher ought to know it and admit it. Tho child then feels that he has some sympathy.

It is astonishing how great an influenco may bo exerted over a child by his simply knowing that his efforts aro observed and appreciated. You pass a boy in the street wheeling a heavy load in a barrow; now simply stop to look at him, with a countenance which says. "That is a heavy load; I should not think that boy could wheel it;" and how quick will your look give fresh strength and vigor to his efforts. On the other hand, when, in such a case, the boy is faltering under his load, try the effect of telling him, "Why, that is not heavy; you can wheel it easily onough; trundle it along." The poor boy may drop his load, disheartened and discouraged, and sit down upon it in despair. It is so in respect to the action of the young in all cases. They are animated and incited by being told in the right way that they have something difficult to do. A boy is performing some service for you. He is watering your horse, porhips, at a well by the road-side, as you aro travelling. Say to him, "Hold up the pail high, so that the horso can drink; it is not heavy." Ho will be discouraged, and will be ready to set the pail down. Say to him, on the other hand, "I had better dismount myself. I don't think you can hold the pail up. It is rery heavy; and his oyes will brighten up at once. "Oh no, sir," he will reply, "I can hold it very dasily." Hence, ovon if the work you are assiguing to a class is easy, do not tell them so unless you wish to destroy all their spirit and interest in doing it ; and if you wish to excite their spirit and interest, make your work difficult and let them see that you know it is so ; not so diff cult as to tax their powers tow heavily, but encugh so to require a. vigorous and persevering effort. Lat them distinctly understand, too, that you know it is difficult, that you mean to make it so, but that they have your sympathy and encouragement in the efforts which it calls them to make.

You may satisfy yourself that human nature is, in this respoct, what I have described by some such experiment as tine following. Select two classes not very fam:'iar with elementary arithmetic, and offer to each of them the fulluwn en example in addition:

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 3 | 9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 |

The numbers may be continued, nccording to tho obvious law regulating the above, until each one of the nino digits has commonced the line. Or, if you chonse Multiplication, let the example be this:

## Multiply 1234n6780 <br> by 1234 ãfir 89

Now, when you bring the exmmple to one of the clneses, address tho pupils as follows:
"I have contrived for you a very difficult sum. It is the mos ${ }_{t}$ difficult one that can be made with the number of figures contained in it, and I do not think that any of you can do it, but you may try. I shall not be surprised if every answer should contain mistakes."
To the other class say as follows:
"I havo prepared an example for you, which I wish you to be very careful to perform correctly. It is a little longer than thoso you have had herotofore, but it is to be performed upon the same principles, and you can all do it correctly, if you really try."
Now under such circumstances the first class will go to their seats with ardor and alacrity, determined to show you that they can do work, even if it is difficult; and if they succeed, they come to the class the next day with pride and pleasure. They have accomplished something which you admit it was not easy to accomplish. On the other hand, the second class. may go to their seats with murmuring looks and words, and with a hearty dislike of the task you have assigned then. They know that they have something to do, which, however easy it may be to the teacher, is really difficult for them ; and thoy havo to be perplexed and wearied with the work, without having, at last, even the little satisfaction of knowing that the toacher appreciated the dificulties with which they had to contend.

## ORGANIZATION OF SCHOOLS.

BY SUPT. CRARLES J. CONNOR, BCENA VISTA COUNTY, IOWA.
I. Find out as nearly as possible what has been done by your predecessor, By means of examinations, oral or written, classify the pupils. Bo sure to havsevery scholar in one of the five divisions. If absolutely necessary, have a class of "irregulars," but know where every student is and hare definite woork for him.
2. Do not be too sure that the pupils have not done thorough work as far as they have gone. They are often timid at first with a now teucher and fail to show what thoy actually know, Remember, it is ensy to forget. A few carefully-planmed review lessons will doubtless be necessary to bring the classes to tho standing they merited at the closo of hust term. Perhaps this work can be reached incidentally. Seo by all means that the tern's work is one of advancement.
8. Have first organization tomporary. Let it bo thoroughly understood that there may bo occasion to promote or denuto. If mistakes have been mado rectify them promptly, but wait until it is certain they aro mistakes.
4. Sent pupils by divisions when practicable. The littlo folk especially appreciate adrancement by change of seats from primary to middlo division. There is something tangible about this advancement that thoy understand.
b. Have as ferr classos as will at all meet the demands of the school. Twenty recitations per day should bo the very outside limit. No teacher can do justico to more, especially if the classes arg large. Somotimes the teacher is connolled to hear moro. Do thorough woik at all hazards. Alternate one or two of the advauced
clabses if necessary. A carefu study of the work will often enablo the teacher to combino clasees by planning a little extra work for tho brightest members. Too much care camnot be exercised in the organizatitn of the scloools.

Teach the English language. I wish to emphasize this. Reading (and kindred branches studied in learning to read, write and speak good English) and arithmetic are basal branches in our country school work. The "Threo R's" are still at a high premium, and shuuld be. Arithmetic will readily command attention. More trouble will arise in presenting English. Make special effort here. Avoid teaching nothing but rules and diagrams. To learn to use the English language we must read it, write it, speal it. Do this work whether they fuish books or not.
Abstracts should be prepared from time to time with great care. The teacher should select some interesting story or incident (not too long), read it to the class or school and question them upon it thoroughly, so thet each one shall be able to recall all the principal points. The pupils should then be required to write the story in thoir own language, using scratch books or common writng paper. Before copying the pupil should carefully revise the work, correcting all misspelled words, observing that capitals and punctuation marks are proporly used and that the work is properly paragraphed. When this is done the abstract should be copied upon paper of uniform size. Too much care cannot be taken with this work, for if it is properly followed it will produce great results in the development of language. These also show the pupil's standing.
As helps in language, let the teacher write down all incorrect expressions used in school and givo them to the pupils once a week, or, better still, let the pupils pick up incorrect expressions and correct them. We learn to do by doing. Also make skeletons of stories and let the pupils combine the words.
When a class has finished any topic, as multiplication, decimals, percentage, etc., place questions upon the blackboard and give the class a written review of tho topic, requiring them to write first upon slates or scratch books, after which the work may bo copied upon the paper prepared for this purpose, following $t^{\prime}$.e directions for abstracts.
The arrangement of the wak in t] elifer, the fomanship, spacing, etc., should be done in the a.catest $\mid$ cssible manher. These papers, propetly signed, should be handed to the teacher for safe keeping. This should be repeated at intervals during the term. The result will be a fine display of arithmetic work.
The directions ziven for arithmetic will apply to history and geography ; however, I will submit the following outlines for a country or state :-

1. Position. 2. Size. 3. Surface-(a) land, (b) water. 4. Climate. 5. Productions- (a) animal, (b) "egetable, (c) mineral. o. Inhnbitants. 7. Occupation. 8. Government.

Outline for administrations:-1. Time. '2. President. 8. Vicepresident. 4. Political parties. 5. Events. 6. Presidential cam-paign-(a) candidates, (b) issucs.
Spelling shuuld form a part of every recitation. Ten words are enough for any lesson. Let the words be written, defined and used in sintences.
Eachrechool must have good work done in the English language, arithnetic, spelling and writing. To fail here is to fail utterly. Do not undorrate other branches, but teach the above thoroughly. Simply hearing any recitation is not teaching.
Teachers cannot do theniselves or their pupils justice by letting thinga go at "loose ends." Study erery lesson until you are enthusiastic.over it. Tho pupils will. catch your spirit. Work with them. Do not tell then that you will look up answers to their questions and will tell then to morrow, but work with and show theni how to work. Encoiarige investigation. Du not lot the pupils take up tho higher branclies (history, physiology, etc., ) too soon. Thoy cunnot understand the language used; and only wasto time. Do good, ihorough work. - Central School Journal.

## slotes and gitws．

## ONTARIO．

Some corrections have been mado in tho list of successful candi－ dates from Whitby Collegrate Institute，and the record now gives twelve sccond class certaticates－six of grade A．and six of grade $B 3$ ．
The＂Executive Brard＂of Albert College have just decided that tho Commercial Department shan hereafter bo named and known as＂The Belleville Business College，＂，i！！commection with Albert Cillige．Prof．Swayze is to be Principal．

The Strathruy High School began its fall term with over 150 pupils．This institution has proved a great success under the ablo management of J．E．Wetherell，B．A．

Mr．M．M．Jaques，Pritucipal of the Public School，has been ap． pointed drawing master for the class to be organzed under the auspices of the Perth Mechanics＇Institute，at a salary of one hundred dollars for the term．Cnder the charge of My．Jiques the Public School is mating rapid and good pronress，and wo have no doubt his new position whll be filled with equall efficiency，$-P$ erth
Courier．

Mooretown has lost a good teacher by the retirement of Mr．Geo． Mcintyre and many feel that it will be a diflicult matter to replace him．He left to enter the Tniversity of Amm Arbur as a medical student and carries the hearty good wishes of the whole section．

The Canada School Jounal for Octuber is an excellent number， and one that should be appreciated by its readers．Besules al large amount of rending if a professiunal nature，it contans a chapter on mathematics vith solutions to questoms，and examuma－1 tion papers that will be fund useful in every public school．Uur Normal School Examination papers and P．E．I．educatuonal notes find a place in its columns．A very practical address gaven by the Ontario Minister of Education before the Provincial Association of Ontario，is worthy of the attention of teachers．This monthly per－ indical is，certamly，one that every teacher in this Province should have，as it would tend to increase his knowledge and extend has
views．－Summerside Journal $P$ 位 views．－Summersille Journal，P．E．I．，Oct． 2.

Mr Tilley，Inspector of County Mudel Schools，visited the Peterhnro＇Model Schobls，and enpressed himself as highly pleased with the staff and the buildings．The ubject of his visit was the organization of the schoul．
Mr．S．Roulston，Principal of the Palmerston Publis School，has resigned his position，and Mr．Munro，of Milverton，has been ap－
pointed to the place． pointed to the place．
Orangeville High Schuoh，of which A．Stcele，B．A．，is hend－ master，passed at the last Departmental Examinations，eight second class candidates，nine third class and six intermediate．
Hughes＇s aranuals cuntinuo to boappreciated in the United States as is evident from tho fulluwing order from the Now York Sunciay
＂Please send us six each，＇＇How to Secure and Retain Attention，＇ and＇Mistakes in Teaching．＇＂

Peterboro＇Board of Education has decided to charge pupils not resident in the town，a fee of $\$ 2.00$ for entrance examanations，to
defray expenses．

In Sarnia High School，fourteen pupils out of seventeen sent up obtained second class certificates－four grade A．and ten grade B． In addition to these，fourteen passed in thrd class and manteen in－
termediate．

A circular has been issued from the Educational Department， stating that the old resulation by which a teacher who taught three years prior to 1877 might be relieved from attendance upon a
Normal school，and tho regulation for granting certificates to moni－ Normal school，and the regulation for granting certificates to moni－
turs or assistants are repealed．Hy thas it will be seen that the power the Inspector formerly had of grantmg permits has been done away with．－I ${ }^{\circ}$ oulstock Sentinel．

The Milton County Model School has seventeen candidates for the teaching profession．It is said that there will soon be more teachers than pupils in this county．As it is，a vacant situation of
$\$ 300$ a year will draw out about fifty $\$ 300$ a year will draw out about fifty applicants．

Mr．W．F．Kennedy，public school teacher at Evolyn，who passed at the London oxammation with honors，has beon appointed hoad． master in the Thamesford school with a large merease of salary． Mr．Kennedy leaves Evelyn after three years＇teachmg，very much to the regrot of the whule section．Miss Mrary Sodmon，of Thorn－
dala，succeeds Mr．Konnedy in the Evelyn echool．

Mister Thos．McDougall，an ex－pupil of S．S．No．26，London， who attended the St．Narys Cullegiate Institute for the thrst six months of the present year，touk the Governor－General＇s が敩 medal for that institution at the recent second class examination．
The Public Schools in Amherstburg wero closed until October 20th，owing to the prevalence of diphineria．

Tho Streotsvil，w High School Board，at a recent moeting uranim－ ously passeri tho followng rosolution：－＂That this Board wishes to pat un rocurd thear sithsfact：on with tho high standing takon by the pupils at the Departmental Exumimations in July，as well as With the charactor of the weneral work done in the school daring
the past year．The members of thas Board are snestied that the the past year．The members of this Board are satistied that tho teachers，A．B．Cooke and W．J．Gal＇－ranth，Esiqs，have，by their energy and ability，succeoded in rasing Streetsvillo Hugh School to a priminent pusition amung the educational mstatutions of Ontario， and wish to cunvey to thom their hearty appreciation of tho interost they have and are manifesturg in the welfare of thas school．Feol－ ing satisfied that the sohool is ably managed，we trust we may long be able to rotain the services of the present staff of teachers．＂－ Brampton Conserivator．
In Orangeville High Schonl；，A．Crichton，B．A．，Medallist in Classics（Toronto University），is classical master ；Mr．IR．A．Gray， Modalist in Physics（Toronto University 1881），takes Physics， Science and Drawing．The latter gentloman passed in all depart． ments in Arts School last holidays．The new High School building will be ready，it is thought，for occupation by Now Year．
In the Partidale Mudel Schoul，${ }^{2}$ Mr．R．W．Hickshas beon appointed teacher of Music and Drawing for the whole school for one day in the week．The buildins has beon enlarged by four additional rooms making fourteon rooms in all，and the completion of this onlarge－ ment was celeb．．．．ed by a vory successful cuncert．Tho studontsin training have been organized me a Cileo Club with Air．Hicks as
conductor． conductor．
Napance Hig＇a Schooi reports an attendance $2 \bar{o}$ per cent．larger than at this tme last year，a fact which speaks volumes forgor hend master，C．Fessendon，B．A．，and has effienent staff of teachers． At the examinations of 1884 this school passed two in first class， nine in second，ten in third，eleven in intermediate and five in ITniversity matriculation．Tutal 37 ，aganst $24 \mathrm{~m} 1883,12 \mathrm{in} \mathrm{1832}$ ，
4 in 1881 and 2 in 1880 ． 4 in 1881 and 2 in 1880 ．This is，certainly，notable progress．

Chatham Business College is maintaining a leading position in the Province．Mr．D．MreLachlan is principal and proprietor，and his otlorts in giving his pupils a sound knuwledre aud proficiency in all iranches of business are highly commendable．We note with pleasure the following：－
＂At the late Toronto Industrial Exhibition Mr．McLachlan＇s ex－ hibit of ormamental penmanship，attracted considerable attention． It was one of the prettiest exhibits in the art gallery．The work shown was principally done by pupils of the Canada Business Cullege，that of Willic Roach（aged 15）being an astonishing achieve． ment for one so young．He drans with pen and ink marvollously correct pictures of birds，deer，etc．，axd it is safe to say for his ago he is the finest penman in Canada．＇

## The following is an extract from Dr．MeLellan＇s roport of Perth Collegiate Institute ：－

＂Accommodalion ：Fair equipment；four mastes；no library； money neoded for library and apparatus．Organization：The classiticition is fair；it might be inproved；there 18 not tame enough allowed for the various recitations，especially in languages； what can a teacher do in twonty minutes with a class in Greek？ ＇lhis can bo casily remedied．
＂The Sthool is doing very fair work．I was well pleased with the Clissics，French and Mathematics．Mr．Robertson is a good ＇drill＇in classics，and，something more，appreciating classics him－ self；this has a strony influence on his classics．The order $1 s$ good； arrangement of classes fair；more time needed for classics and recitation．Board should make a grant for library of reference and standard literature．＂
The several teachers in the Perth Collegiato Institute have beon re－engaged at salaries is follows ：－W．J．Ruthwell，B．A．Principal， $\$ 1200$ ；Noil Rubertson，H．A．，Clissical Miaster，$\$ 8100$ ；A．W． Burt，B A．，Modern Linguago Master，$\$ 300$ ；Wm．Mpore，B．A．， English and Scienco Master，\＄600．In the Public School Mr．MI．M． Jaques，Principal of the Model School，was re－engaged at a salary of $\$ 700$ ；Miss MoKinley，$\$ 300$ ；Miss Andeson，$\$ 275$ ；Miss Smitherman，\＄225̄；Mies Nioileon，S200；Miss Walkor， 8200.

The Hamilton Board of Education has adopted the following reconmendation, on the motion of Mr. Burton, seconded by Mr. Hill :-That your committeo recognizing the importuace of a more thorough system of inspection of the public sehools of the city, rocommend that the services of an inspector who shall devote the whole of his time during scheol hours ho engaged, and with that end in view, Mr. Smith, tho present inspector, bo requested to reaign his position as mspector on January list next.

The Education Dupartment has just revised regulatious in regard to the exumimations for teacherg' certificates. Amongst other changes Latin and French are struck of the list of upthonalsubjects, and algeban, drawing, book keeping and physics are mado oblig, ntory upon candidates. - Orangeville Advertiser.

Mr. Wolverton, who threo years ago was appointed Principal of Woodstock Collego, has now recerved the appointment permanently. Recent reports show that marked progress has been made in the College financially and educationally.

Hughes's Manuals hare met with the most decided success in the United States. "Mistakes in Teaching" secms to be a very popular book among teachers in that country. A lotter received, Oct. 23rd, orders quite a large quantity of these books for the teachers of Minnesota.

The "Weelly Canada School Journal" project is warmly ondorsed by a large number of friends in the ranks of tho teaching profession, and we are encouraged very much by such expressions of approval and promises of support. The following is a samplo of many similar communications:-" The reeekly edition of the Jovanal will, I think, be received even mure farorably than the still popular minnthly edition. As for the latter, however, (were thero no weekly) I would not wish to be without it. Expect my subscription to the 'Weekly, -our wurn professional paper. W. J. C." Thanks, hind friend!' Much as you like the monthly Journal you will apprectate the "weekly" still more, for it is intended to spare no effort to make it the best educational paper. that has ever been beiore the public, and to have it just as you mention, "The Teacher's own Professional Paper."
A prominent high school master writes :-"Your words on Botany are well timed. Do rat drop tine subject till it is again an option for Algebra. It deve ." pes girls' minus far faster than Algebra and gives them a liking for investigation."
Mr. Tilley, Inspector of Model Schools, spoke in very complimentary terms of the Fictou school on his last visit. He declared that the school was among the best organized and best disciplined model schools in the Province, making no exception of any room. He complimented the model class, saying the students ahowed that they were working, and made the best class he had ever seen in Picton."-ricton Times.
At tho recent union convention of teachers, Lambton Co., it ras resolved io adopt the plan of uniform promotion examinations for the county.

## STRATFOLD COLLEGIATE institote.

The High Scliool at Stratford was Oct. Eith, promoted io the standing of a Collegiate Institute, the official declaration being made by the Hon. G. W. Ross, Minister of Education. A large number of educationists from Perth and adjoining counties, together with the school trustees, local clergy and other friends, assombled to do honor to the occasion, and it is estimated that 1000 persons were present. The walls of the various rooms were festooned with evergreans, flowors, flags, de, and adorned with paintings and drawings, the handiworls of the students under Miss Freeman's charge.
In his address the Minister referred to the splendid rork that had been done in the school hy W. McBride, M.A., and his able assistants, which had won the honor that was about to be conferred on it. The statf during the present year had increased from four to eight ; the arerage nttendance has gone up from 90 to 177 . At
last departmental examinations, 8 passed in second last departmental examinations, 8 passed in second ciass A, 8 in 1 B ,
14 third class and 35 intermediate. At the "Incal Examinations 14 third class and 35 intermednate. At the "Lracal Examinations
for Women" in comection with Toronto University, 20 candidates passed, out of 32, obtaining 12 First Class Honors and 11 Second Class Honors. It is proposed to ndd a Corrmercial Department as an optional subject for High Schools, and also Drawing. Arrangements would be made next year by which male students in High Schools could write for the natriculation of Toronto University at home the same as women are allowed to do. at present and save them the troublo and exponse of going. to the city. The Bave.
gentleman's remarks were received with much satisfaction. Mr. J. L. Hughes, inspector of city schools, Toronto, gave a brief, humorous address, Messrs. Rothwell and MicCallum B. A., both of Listowel, made somo appropriate congratulatory remarks. On tho motion of Rev. G. Richardson, seconded by Rev. D. A. MrGregor, a vote of thanks was accorded the speakers. The boys were then put through their facings in drill exercises and the girls in calisthemes.
In the evoning a banquet wes tendered to Mr. Ross. Mr. Thos, Stoney, Chainman of Trustees, was in the chair, and a very agree-
able time was spent. able time was spent.

The teaching staff of Stratford Collegiate Institute comprises the following:-Wim. McBride, M. A., Mathematice and Frencls; C. A. Mityberry, B. A., Clnssics ; J. Wilson, B. A., 1st A., Euglish; John M. Moran, 1st A., German and Nat. Science; A. Defiuerre. B.A., Mathematics ; Prof. Jolinson Morriss, Vocal Music ; Miss J. Weir, Instrumental Music, and Miss M. Freeman, Drawing, Painting. \&e.
The capacious building affords spacious accommodation, and a library, gymnasium, calis thenic roomand laboratory haveall beenstarted and well equipped since last January. The Roard of School Trustees has heartily co-operated with the head master in furnishing the school with apparatus and appliances and as a result the Institute is now one of the leading schools in tho Province. Mr. MrBride, on his appointment, found the school in a disorganized state, but by the energy and indomitable perseverance for which he is noted, he has brought the Stratford Collegiate Institute to the high pesition it occupies to-day.
We arg in receipt of the "Annual Circular" of Ontario Business College, Belleville, and have to congratulate Messrs. Robinson and Juhnson on the flourishing state of the mstitution. The varied branches of commercial education taught in the College and the practical nature of the teaching afforded by men who are second to none in the profession, have attracted atudents from the United States, West Indies and Newfoundland, besides a large attendance from he provinces of the Dominion. Not lung since we gave a full description of the method by which each subject is.taught, numely, oy actual business transactions in banking, counting honse work, telegraphy, de., carried on in such a manner tiant a student may step from the College into a business house and procetd with his wo:k without further training. The success of the large majority
of the pupils who lave craduated from the College is the best of the pupils who lave graduated from the College is the best evidence of the superior education afforded within its walls.

Mr. W. H. Bean, teacher of Scarboro' Village School, has matriculated at Trinity College, Toronto.
An effort is about to be made to organize a Teachers' Association for South York. A meeting of the teachers of the inspectorate is to be called to assemble in Parkcale Model School some time this month, at which the project will be disscussed.

## NEW BRUNSWICK.

The Board of Education has had sevoral meetings recently, but the result of the deliberations have not trauspured. It is under. stood that the determining of Inspectoral Districts and the appointment of Inspectors has been a part of the work.
The following Text Buoks have been prescribed for use in the Free Schools of the Province on and after November 1st, 1884 :Hamlilin Smith's Geometry; Modern Geography and 'Atlas (Canada Publishing, Co.,) in place of C.llkin's Scheol Geigraphy of the World ; Archer's Short History of Canada.
Classes beginmmy any of these subjects must use the newly prescribed texts; but classes which have already made some progress in the subjects may, with the concurrence of the Trustees, continue thre use of the present 'Texts.
The following provisions are prescribed respecting Superior and Grammar Schouls:-

## SUPERIOR SCHOOLS.

Teachers of a Superior School to be entitled to the Provincial Allowance of $\$ 250$ must hold a license from the Board of Faducation of at least Class I, and must receive from the Trustees a salary of not less than $\$ 250$ per annum.

1. Superiur Schools in Cities, Incorporated Towns, and in Towns having fout graded Departments:-Boards of Irustees shall provide for giving instruction in at least Standards IX and X. When instruction is not provided for or not given in advance of Standard $X$, work in Standard VIII may be reyuired of the Teachor, provided the daily average attendance of pupils in the lugher standards is not more then 20. Should Standards IX, X and XI bo taught no work in lower standard shall bo required of the teacher, unless a Provincial Licensed Assistant is employed having a separate class-
room.
2. Superior Schools in Towns or Fillages havin'threc Gruded Departments. - Thu highest Dupartment shall constitute tho Superior School, and shall not bo called upon to purform work under tho Standird VIL of tho graded course. Provision shall bo made for givang mastruction an a course apocally provaded for such schools, to extend over a period of threo years.
3. Superiar Schowls in Jistruts havamy tuo Grale. $l$ Departments. Tho second or lughest Department shall form the Superiur School and shall not be called upon to porform work under Standrod $V$ of the graded course. A special course extending over a period of feur years shall he prescribed for such schools.
 ungraded schoul un a cuantry distave may bo recounazed its a suou-
 average attendanco of pupils is 30 or upwarde. For such schools a special course will be prescribed.
$\overline{0}$. The school accommodation and appliances in all Superior Schools must be satisfactory to the Inspector, who shall report thereon to the Chief Superintendent.

## - omamman schoois.

The Master of a Grammar School must hold a Grammar School License from the Board of Education and be in receipt of an amnual salary of at least $\$ 350$ from tho Board of Trustees, to entitle him to the Provincial grint of $\$ 500$.

1. Grammar sidhools in the Citics of Saint John and Fredericton.(Specially provided for.)
2. Grammar sichorls in Totens.-Grammar Schools in Town; having a gataded course shatl mako prosiston fur giving instruction in nut less than two standards an adsance of Standud VIII, and must have competent pupils studyng an at least Standard IX. If there are no competent pupils engaged in the study of Standard $X$, the Buard, "I'rustees may phace pupuls in Standards VII and VIII, but not in a lower Standard, under the immediate instruction of the Grammiar Schuul Mister.
Should there be competent pupils engaged in the study of Standard $X$, and the whole number of enrulled puphls exceed 30 , the Board of Trustees must vither relieve the Mlaster from teaching Standard VII, or employ a licensed assistant:
If Staudard XI is provided for and if competent pupils are engaged in its study as well as pupils in Standards IX and $X$ the Board of 'lrustees shall not exact from the Master work in any lower Standard unless the enrolled number of pupils falls below $2 \overline{5}$. If the enrolled number of pupils falls below 20, the Grammar School Inspector shall determine what additional work, if any, shall be assigned to the Master.
It shall be e mpetent for the Trustees of any Town or Grammar School to requiro the M Ister to teach Lati:a to pupils who may belong to grades VII and VIII, in muther Dep.rament, provided the Teacher of these grades is not qualitied to teach the subject.
3. Grammar tichouls $2 n$ Villages. - When a Grammar Schnol is established in a villuge having two Departments, the highest Department shall bo considered the Grammor School. For such a department a cuurse of Instruction madvance of Standard IV of the graded course shatl be proscribed, embracing four consecutive Standards. Classics and Mathematics shall be included in the course. Should no cumpetent pupils Le engaged in the study of either Classics or Mathematies in advance of Standard VI of the course within the third term efter the First of Nuvember, 1884, or should at any time thereafter one year elapse during which no pupils have been engaged in such studies in advance of thas Standard, the suhoul shali fall below the rank of a Grammar School.

If the full course of mastruction is not 111 uperation, and if the number of puphls is under 30 , the Inspector shall determine what additional work, if any, may be required of the Master.
4. The school accommodation and appliances must be satisfactory to Grammer School Inspector, who shall repurt thercon to the Superintendent.

The following urders were made by the Buard of Education, June 10th, 1834 :-

1. The Inspectur may issue an Assistant's License of the Third Class, to bo of force durmg the School Term for which it is issued, to any person qualified to act in tho capacity of a Class.Room Assistant in an ungraded schnnl haring fifty pupils or upwards, but shall not renew the same without the special pormission of the Board of Education or Chief Superintendent. Such license shall bo valid only is the Schoon for which it is issucd, and shatl not qualify the holder to act in any other capacity thin that of Class-room Assistant. Every license isswad herounder shall bo at onco reported by
the Inspoctor, wit'I the designation of the school, to the Chief Sup. erintendont.
2. When a licensed teachor cannot bo obtained by the Board of Trustees of a schmol district or recemmended by tho Inspector, ho may, until ot herwise ordered, issue a license of the d'hird Class to any suitable person to teach the schnol in such district for one term, but shall not rencue the same or any license issued by him, without the express permission of the Board of Educatinn or Chiof Suporintendent. Any hiconso issued hereundor shall bo at once reportad to the Chef Supermtendent.

The Thiuf Superintendent aftondod Nurthomberland Quanty Institure, at Chatham, and gave a pablic adilress un educutional mattors, referring particularly to tho recent changes in tho Las and tho Regulations.
All tho Grammar Schools provided for by tho amonded law passed last winter will go into operation this torm, as applications have been mado to tho Dopartment for the Provincial Grants on the terms prescribed.
It is expected that a large proportion of the new Superior Schools contemplated by the Luw will be established this soason.
The dedication of tho new Memorial Hall in connection with Mount Allison College, Sackvillo, took place, with appropriate ceremonies, on the 10th October.
Tho site for the new buildings for tho Baptist Seminary, St. John, N. B., has not yet been tinally decided upon.
H. V. B. Bridges, A.M., Lately, Principal of the Church Eall Schools, Fredericton, is now on the staff of the Collegiate School. So is B. H. Foster, A. B. It is said that important changes are to do made 1 n the constitution of the school.
W. F. Ganong, A.B., has taken a school at St. Stophen, in room of Jas. Vroom, who goes to Presqu'isle.
J. A• Juhn, B.A., has resigued the principalship of the Sunbury Grammar Sulivel, in order to study for tho ministry, and R . $\mathrm{G}_{\text {. }}$ Day, B.A., from Andorer, has been appointed to succeed lum.
Miss Russ is at present in chargo of the schools vacated by Mr. Bridges, at Fredericton.
J. J. Weddall, Esq., is the successor of the late S. D. M.Pherson, Esq., as Trusteo of Sahools in Fredericton.
In tho Sussux Schools, Mr. Flewelling has rosigned the Principaiship, and Miss Murray and Miss Arinstrong have been promoted to highor dopartments.

## NOVA SCOTIA.

Quite a number of changes in the principalship of county academies and High Schouls have been repurted. Mr: Dumel Murray, A. B. (D.lhousie) assumes ch.urie of the Shulburne Acullumy at the opening of the ensuing school year. He succeods Mr. H. Mclatosh, who has hecepted an engagement from the trustees of the Cuanty Academy at Lunenburg. Mr. F. Jnnes, A. B., (Dillopusie) tikos the principalship of tho Victuria County Academy at Baddeck, C.B.
Ender tho judicious direction of Suparvisor McKıy, tho Board of School Commissioners for Halifax city have remodelled thear educational sjstem in some impurtant particulars. Must, if not all, of theso changes may be unhesitatingly accepted as improvoments. Among matters mooted, but not yet practically carried into effect, may be montioned the popularization of the High School by abolishing fees and bringing the institution into closer accord with the Pruvincial system of education. Of late the Halifax staff of Public Schoul Teachers has recetved some valuablo accesstons,

The revised regulations of the Provincial Normal School ontrance provisions wheroby pupil-teachers entering with exceptionally high vion-professional attaiuments may complete the curriculum for second class licunses in May, instead of waiting till the end of the ammual-session in July. The Proparatory Dopartment for third class teachers, whech made a hopeful begmnng last year, contimues in operation. Miss Ada Ryan, of Halifax, who has been placed in charge of it, acheved tho high distinction of leading tho candidatos for first class licenscs at tho recont Proviucial oxamination.

The sixth annual meeting of the Teachors Association for Inspec. toral District No 8, (countios of Inverness and Victoria), was held at Baddeck on tho last Thursday and Friday of Septomber. A large nuinber of teachers and visiturs attonded tho several sessions. Papers on variuus subjects, and all marked by mach ability, wero read by the Pressdent of the dssuctation, J. Y. Gunu, Esal., In.
spector of Schools, Mr. D. C. McLenuan, Mr. MoKenzio, and Mr. Foreyth, Miss Forbes (who is an undergraduate and exhibitioner of Dallhousio Collrge) gave un instructive class exercise in tho shapo of a lesson in Geograply and History ns taught by the danly newspmper. The proceedings were enlivened by educational discussons and addresses from the clergy and other gentlemen present. The local paper refors in warm terms of paise to the paper read hy the President, Inspector Gum. Mr. L. C. Boyd filled neceptably the position of Vice.President, and MIr. D. H. DicKemma that of Secretary-Trensurer. It is a melancholy proof of the uncertainty of human life, that the esteemed Vice-President, Mr. Boyd, was drusned on the Munday follhwing the meetung of the Assuciation, as he was returnitg by sail buat tu hisschuol ut Buularderie Ishand.
Next month's notes will contain reports of the recent 'Teachers' Associations at Sydncy, C.E., and at Kentville.
The next ensuing ammul seession of the Provincinl Normal School begins on the 5 th inst. There is a good prospect of the attendance outstripping that of any previous year.

## BRITISH COLUMBIA.

We havo had the pleasure of seeing a very neat and appropriate, though cheap, design of a Diploma issued by the Superintendent of British Columbia to present to pupils passing the Entrauce Examination to the High School. It is of a convenient size and is suitable for framing. The motto is "Haec olim menunisse juvabit." It will delight in after years to remembar these things. It bears the signatures of the Supt of Education and the headmaster with the seal of tho Departuer. attached, and no doubt will be highly prized by the wimher. It appenrs to us that this will produce a healthy stimulant to tho pupil who will take plensure in preserving sueli a document. Wo would suggest that Ontario pupils might value a similar Diplcma much more highly than the present "slip of paper," that "does for the purpose."
Tho lowest salary pard to teachers in British Columbia is $\$ 600$ a yoar whilo many receive sums ranging from $\$ 960$ to $\$ 1320$. It is simply humiliating to know that Ontario tenchers, who dovote much time and money to secure the necessary training, receive only a mere pittance in comparison, and work from an hour to an hour and a half longer each day, and have a nuch larger class as a rule. The Government fixes the salaries according to the school and there is no competition in salaries. If trustees imagine that when they engage a teacher for 8300 they are receiving $\$ 500$ worth thoy are in all probability mistaken. Do they make a practice of giving two dullars' worth for one dollar?
The number of schools in British Columbia is eighty-five. The increase during the past year has been over twenty per cent. This tpeaks well for the interest the people are taking in education, Which, no doubt, has been greatly stimulated by the popular uflicial head.
We are pleasel to notice the efforts that Mr. Pope is making to to establish a teachers' convention. Such an association cannot fail in good results to those who partake fully of its advantages and we trust overy teacher will hasten to put a shoulder to the wheel. We no not want any drones, remember !

## Tenchrts' \{ssociations.

The publishers of the JOURNAI will be obliged to Inspectorsand Socrotaries of Teachers' Assoclations if they will gend for publication programmes of meetings to be held, and brief accounts of meetings held.

## PRUVINCIAL ZEACHERS' ASSOCIATION. third dar:

Oxtario-Continued -The Public School section of the Association met, Mr. Duncan in the chair. On motion it was resolved that it is the opinion of the Public School section that tho holiday in rural sections be six weeks, by Departmontal regulation, instead of being as at present optional with trustces.

Mr. W. G. Duff moved, seconded by Gergo Baird, That in the opinion of the Public School section of the Teachers' Association the kistory for entrance is too extensive, and would recommenil thit the history for entranco be Canadian history, and ono period of English history, to be set by the departnent frum timo to tiac. The motion was carried.

Mr F C Powell, of Kincardine, read a paper on reading and writing, in which ho maintained that although the importance of theso
subjects was generally acknouledged, sufficient attention was not paid to them in our school training, and that in sone High Scliools they were almost ignored.

Considerable discussion tool: place on a motion made by Mr. Aloxauder that in the opinion of this section the netion of tho Hon. Minister of Elucation in recognizing amd placing a ligh valuo on the professional success of candidates for re-examination for thift-class certificates is calculated to ioster and promote that most essential part of a teacher's qualitication, and that the recognition of the value nad importance of suceessful work in the school-room should bo extendel to the higher olasses of certificates, so as to make it possible for a teacher through success in teachang to raise his cortuficate from one degree to another in that chass sa "hich it belongs. An amendment uffered hy Mr. Barber, adi cuatiug the entire separation of the professounal anal the num-profes. sioual oxaminations was lost on a division, and Mr. Alexander's motion was carried.

Dr. Forest, of Bradford, explained the working of an ingenious machine called the "word builder."

The following officers were elected:-Chairman, Mr. Munro, of Ottawa; Secretary, F. C. Powell, Kincardine. Directors-Messss. Wood, Steel, Deacon, and Coates. Legislative Committec-Messrs. R. W. Doan, Hendry, and Rannic.

Tho High' School section recommended a more thorough study of botany.

In the afternoon-Mr. Scarlett presented the roport of the Temperanco Committec. The committeo having duly considered tho circular addressed to this Assuciation by Messrs. Orclhard, of Owen Sound, secretary of the Canada Temperance Union for Ontario, reported that the matyers referred to them fiave been for some time anil are still under the consideration of the Education Department, and that when finally settled their decision will no doubt lee satisfactory to all concerned. The report was allopted. The Audit Committee's report was andopted. The election for President then took place by ballot, and Dr. McLellan was clected.

## HIGII SCHOOL SECTION

The High School section met in the library, with Dr. Adam Purslow in the chair. Principal McHenry read a paper on High Schowl gradua. tion. The plan proposed was that on the completion of the full courso in a High Seholl or Collegiate Institute pupils be regularly graduated, receiving a diploma issucd by the Minister of Education, and that the bestowal of this honaur take place at the annual public meeting of pupils, parents, and other friends of education. Ho suggested two means of carrying out this scheme: 1st. To have a final examination, conducted under tho direction of the Education Department, talie placo in counction with the intermediate or teachers' examination ; graduation exoreises to be hell ti. July or Septeniber. 2nal. Insteail of establishing an additional departmental examination utilize the existing University Local Examinations. L the upper limit of the High School course, ns now, correspond with that of Senior Matriculation, and have our High School candidates for graduation take cither the Junior or the Senior Local Matriculation Examination, accordiug to their degree of advancement in the course.

The section passed a resolution approving of the plan of Upper School graduation, and suggesting that the local university matriculation examinations could bo utilized, and appuinted a committee consisting of the High School representatives in the University Senate and Messrs. Bryant, McHenry, amd Embree to prepare a sclicme.

On mution of Mr. Miller it was resolved that the University of Toronto be requested to recognize as fully matriculated students all who at tho local examinations shall obtan the standard required for matriculation and who in these subjects comply with the conditions of entering the University.

The committee appointed to consider the subject of natural science for junior mantriculntion recummended that a paper be set therein demanding from candidates such a knowledga as must he obtained fyom persomal observation of Canadian plants, also a paper un physical geography, meaning therchy the scientific treatment of the upper portion of the earth's crust, the atmosphere, snow, icc, rain, hail, winds, clouls, etc.

As a result of this report the section resolved that the subject of botany and chemistry or chemical physics be placed as optional subjects on the jumior matriculation curricilum.

Dr. Purslow moved, that in view of the objectionable nature of somo of the papers set at the last matriculation examination of Toronto University, notably the pass papers in mathematics, the High School representatives to the Senate be requested to endcavor to have none but suitable persons appointed as examiners, and to this end to secure that one examiner shall be a professor of the subject examined on, and that another, if possille, a high school mastor, conversant with the capas bilities of High Schools. (Carried.)

The committeo on Mr. Bryant's paper on Commercal Education reported in favor of recognizing the claim of pupils who did not dessre preparation for profegsional examinations, and recommended a courso of commercial education, coniprising the subjects mentioned by Mr. Bryant, with tho addition of phonography as an optional sulject.

Oi motion the department was requestel to solect as sub-oxaminers high a $h$ hol mastors and other teachers of practioal exporienco.

The following olficers were olocted:-Chmrman, Dr. Purslow; Secretary, Mr. Mrrchant; Exacutive Commutteo, Miessrs. Strang, Embree, MacMurehy, Mhler, and R dert Aleximdor; Légstativo Congmittee, Messrs. Bryant, Scout, and Wotherell.

## INSibetors sbction.

In the Inspectors' soction, amendments to the sohonl law wero ooneiderel. The s.otion expressed its opimon that summer vacations in rural districts shonh le six wocks long; that the nommation and olec. tion of Publice Shrol hustees an citios and in orporated villages shunh be hell on the same day as the nomination and olection of municipal councillors, and in tue same place; that the number of tonstees of rural selool sections be incroased by two, and that the same be five instead of three, also $t$ at ead trustee hold office fir five vears ; that it be conpulsory in trustors to pay their teachers quarterly; that the expe sos of all examinations, excopt entrance oxammations, in connection with the pablic educational system, be providel for by fees to the paid by candi lates; that it shonlit be meumbent upon County Councils to pruvido
and levy Sin towarils the local teachors institute and lery sin towarts the Incal teachors institute; that section 1 SG of the Sehond Act should be changed so as to remove all doubt in regard to and other othicial expenses of pithlic School Luspectors.

The section elected the following officers. - Chairman, A. Camplell, Kincardmo; Secretary, F L. Michell. Durectors-Messrs. Fotheringham, MeKimon, Clapp, and Huntor. Legislative CommitteeMessrs. Maxwell, Smith, am Little.

A committee consistugg of Messr3. MeMurchy, Alexander, and MeKinnon, was appointed to roport next year on the consolidation of the constitution and by laws of this Assembly and the amendment of them so far as thoy relate to the olection of officers.

Col. F w. larker delivered an a ldress on the Teaching of Reading and Language in Sehrols. He said that the maxim "learn to do by domg" hail bern disregarde l. Reading was not talking. The chuld had learned to talk before he came to schos, in fact all great elocutionists sand, "If you will lewn elocution, go to a litele chhle." The
child's pronun-iation anl articulation might le imperfect; its chill's pronun-iation an I articulation might be imperfect; its emphass never. The lecturer imitated the dull, monutunous tone in which a child reads after a fow months' training at school, and said it was somethin; letween a whime anla groan. Rendur was not pronumeiation. If pronumbiati n hatil the be tangl $t$, it was some thing quate scparate frum reading nor did reading consist of articulation or emphasis, both of which the child hat learncd before coming to sehool. He defined reading as a means of getting thought hy means of written sentences. Reading was thinking by means of written words. If tho child did not think he did not reai The great mistako committel had been to make expression the end of education, whereas power should be the end and expression the means. As frequently taught, oral reading, instead of a meaus to makie the child think, was actually an obstacle between the chld and the thought. A faulty system was the old A, B, C method of teaching the alphabet. Another was the phonic system, as sometimes taught, and another was elocution, in which chiliren were taught to make strange and unnatural noises. He strongly condemned the system under which chilhen were made to read the same look again and agam, after they had learned ats contents by heart. Take this guestion of polluting literature. Why did children radit? Because they were starved in the school-room on this miserable rubbish. He would throw away the spelling-books, the grammars, the primary geographies, and buy a library for every schonl house in America.

Ir. Hughes presentell a report recommending that industrial drawing be made compulsory in Public and High Schools, amd that marks in
drawing be taken into account the same as those in other subjects at drawing be taken into account the same as those in other subjects at the entrance examination to the High Schools; also that industrial occupations be introluced into the l'ublic Schools, especially in the junior clagses; and that the Minister of Education he requested to provide such training in Molel and Normal Schools. The report was adopted.
Dr. Carlyle real a paper on "Uniormity of Text Books." He ex Dr. Cartyle real a paper on "Cniormity of Text Books." He ex
pressel himself m favor of nuiformity, and cuggested that a series of realers be used wheh would contain one complet: English classic instead of scraps without berginniug or end.

Mr. A. IP. Kuight, Kingston, read a paper on "University Consolidation and State Aid to Colleges." He suggested that a certain
amount of aid should be given to all colleges which fultilled certain requirements.

In the evening Col. F. W. Parker delivered an adirress on "The confict of two ideals in ellucation." He said that throughout all history two ideals had governed human action. One wis that of fore-orili,ation -man's fore-oriain ng what man should be. Whether for gool of man, or for selfish purposes, the rich and porerful had fore ordained what a great portion of mankinil should be, eithrr hy olucating them or by
keepung them in ignorance. The question to be solvel was, "How to keeping them in ignorance. The question to be solvel was, "How to rnake the best subject." The usua! way was to kecp the people in
ignorance. Some nations had adopted a different mode, namely to ignorance. Some nations had adopted a different mode, namely, to educate the people. Among these was l'russia, whose sovereigns had asted on the principle of making their subjegts good soldiers and
artisans. As soon as oducation was introducol thon logan thu conflict botwcen tho. wo moals-mno thit tho subjoct W.as mado for tha king, make the bost of humself that ho possibly could. The other idoal was that of froelom-the dovolopment of the mini into truth. The outward battle might give liborty, bat only the mward strugelo gave men froedom. The inleal of freedom was opposed to that of limitation.
With the Amoricus rpuble With the Americin rupablic was fommal tho first absoluto cundition of hiborty, but not of froulom. Tho fathors of the republic in thoir wisiom foumled tho common school. Evon at this day thore was no comnon school systrm in tho world excopt on this continent. Tho sohools of Germany wero not froo; thore wore froo sohouls for tho poor, but tho others wero "stratified," and stratified schouls meant a stratifiod socicty. One great end of olucation was to havo the rich munglo with tho poor on tho same benches and fiotht them on the r-no playgrouml. Ender the idea of hmitation tho child was for tho course of stiwly; under the ideal of freolum the courso of study was for the child. No subject should be included in the conrse of study which dill not develop the child's minil. And in ouder to know what subjocts to select they must stuly the child's mind-not only the working of the mind generally, but tho individual mum of each child. There was no collego for the training of teachers, properly speaking. Normal Schor lo wero doing magniticent work, but they had been to a great oxtent nothing but acadumies. Thay had been obhyed to receive children who wero not yet realy to learn to teach. Make expression the means of thought and the teacher could not go wrong. Shakespeare, and Bacon, and Locke knew nothing of grammar. The speaker also attackell the system of promotion exaninations. There should be examinations, but they should bo malo by the teacher, and mado overy hour.

Mr. H. I. Strans, after roferring to a precions discussion on the respective incrits of the system of a Minister of Elucation and Superin. tendent of Edncation, moved that, in view of the change that has taken place since the question was brought bufore the Association and the general feeling thronghout the country that the new Ministor should have a fair trin, it wis inoxpedient to discuss tho mattor further at present, but that it wis desirable that the head of the department, whether Minister or Chief Superintendont, should have a regularly constituted Board of Advisers, representative in charactor, with specific du ies defined by statute.

Mr. MeMurehy introduced the subject of Bible realing in schools, and a committee composed of Messrs. Doan, McMarchy, and Wadsworth was appontel to urge on the Governnent the view, of the Assuciation as expressed at the lust convention.

The convention then adjourned.
Prince Edward Island.-The annual convention of this Association was held in the Upper Prince Streot School, Charlottetown, Oct. Sth and 0th, and was the largest es er heh. A number of vistors also attended and took a warm interest in the procecdups. The Pressident, Mr. D. Muntgomery, Clief Superintenelent of Eilucation, called tho mecting to order at $10 \mathrm{a} . \mathrm{m}$., and after the disposal of some routme bustness, Mr. Mephail real a very interestmy paper on "The Artiticial in leaching." His ilea of tho profession was nut maccordance with tho views of many of his hearers, as he consuler. 1 the te.ccher bound hy tho cole of instruction to pursue a fixed sourse instead of acteng on what be conscientiously consedered the best for his pupils. On the motion of J. F. Mellish, M.A., seconded by Mr. Larkin, the thanks of the meeting Wre's given Mr. Mcl'nal. Mr. Neil McEeod read a good, practical paper on the Teaching of History. He recoummended a general outline of the subject, taught topmally, mstead of the dry bones usually given in the shape of dates, genealogies, and other interesting details. In the animated discussion that followed some valuable suggestions were given by Miss Suaddon, Kev. W. B. King, principal of st. Peter's school; Miss M. Lawson, Messrs. Mackenze, McLcman, Stewart, Larkin, and Mellish.

In the afternoon Mr. N. McLeod read the report prepared by a committec appointed at last year's convention on the course of iustruction for pubhice nehools. After discussing it clause by cluuse it was anended romewhat and adopted. In effect it is as follows:-1. No change in first thic grades. 2. No text-book on grammar to be used until pupils enter fifth grade, or intermediato course; in fourth grade the term "musical notation" be substituted for "theory of mussc." 3. Latin to bo comnenced in High School course only, in seventh and eighth grades; and that the knowledge of Latin now required of the fifth and sixth grades be decmed sufficient for the seventh. and that of the soventh sufficient for the eighth. 4 Algebra to be taken up in High Seloonl grades only; for the seventh to simple cquations, and for the eighth to quadratics. J. That the study of Greek in the public schoots be loft opkional. Miss Suaddon read a well written and thoughtful paper on "What a High School oulght to be." Her plans, if applied to the local schools, would be productive of much benefit. Mr. J. L. Robertson, of Toronto, gave an aildress on Primary Reading. which was "ell received. He recommended the phonic system combined with the "word uethod." Mr. J. MeSwain, head master of the Model School, read a very practical paper on tho tcaching of Grammar. He advo.
cated its being taught in the intermediate grades because many of tho chililiren leavo seliool when they pass out of these grades. The subject was well dizenssed ly Profs. Anderson and Mellish num Mesers. MeLellan, Larkin, Curran, Stewart, anil Mcl'hail. The public meeting in the evening wan held at the Aesembly Hall of Prince Strect School, and was largely nttemed. Mr. Montgomery ocenpied the clair, mud opened tho preveedings with a briwf pleech. Sikurt nidireseses were then given by Rov. Mr. Sielholls, of Montran; Ruv. Mr Rechardeon, of St. Eilen. nor's; Rev. (G. W. Hodggon, Hon. Dasid Laur 1, 1). Farquharson, Ls Mo., M.P.P., and Mr. J. L. Rulerts b. Betwoo the aditresses $n$ choir, composed of about 100 pupils of lrince Stict School, ably led by Miss E. Barr, saug a number of nice bongs. Niss wh L.eod presided at the organ. The first hasmess on re-assembling the following mormmg was the appointment of a committee on nominmtion of officers for the cusumg yeas, after whin Mr. Larkin brought hefore the convention the importance of attending to some of the suggestions given m the specelers of the previous evenugg namely, more effective inspection of scheols,
 polite mamners anong the pupls. He then hanied in a motion to the cffect that the school year should comenence lot November instend of hst
July, and the numal meeting of the ratepayers bee lield the third Tues. day in September. Ho gave many sound reasons for thas change. The motion was seconded by Mr. J. MeSwain, nman after in lively discussion, in which Messis. J. Arbuckle, J. M. Duncen, Clay, nnd Stewart took part, it was carried aud orderal to be submitted to the Houso of Assembly with a memorial praying that the change lie made. Mr. McGrath reand in paper on "Our School Tenchers," in which he showed how some teachers fail in theit wouk, and gave a few excellent practicnl hints for their guidance. He/iouplained of the smalness of sularies compured with the importance of tho work. Miss E. Barr read a splendid paper on "The Teaching Profession,", which was highly appreciated. Rev. J. Burwash expressed his satisfaction at the nature of the papers rail. A discussion arising out of Mr. MeGrath's paper relative to m. crease of salaries was then carried on for some time by Miss M. Lanwson, Messrs. J. D. Seaman, Larkin, N. McLeod, anid Alex. McDonald, but no aetion was taken. In the afternoon the president amnounced that 146 members ladd joined the Associntion. Thes number was the highest yet obtained. The Committee on Resolutions brought in the following: - (1) "Belicving that the use of a school magazine would help teachers in their practical work ns well as improve their knowlelge of echaca. tional matters generally, Therefore resolved, that this Association endorses the Casma Schuol Joensal as the edneational organ for the teachers of thas province, nud that the members uso their infurnce to promote its circulation." (2) "Whereas it has been brought to our notice thant after the expenses of the Association have been met a considerahlo surplus will remain in the hauds of the treasurer ; and whereas this surplus should be exr nuded so as to bo most beneficial to the members of this Association, chereforo resolved, that saidl surplus be oxPended in the purchase of books with the viin, of establishing a hibrary." The first resolution uas carried unanimously; the secund was, on the notion of Mr. I arkin, seconded by Mr. Mr Muy year. The clection of officers was then proceeded with. The Cominittec on Nominations hadi named Mr. Montgorery for presilent nuld Mr. J. D. . amman secretary - treasurer, wothere gentlemen liaving de-
clined to act, the commitee brought in anuther reort, which was clined to act, the committee brought in anuther report, which was
adopted ns follows:- President Mr. adopted ns follows:- President. Mr. J. McSwain; Vice. Presidents, Misses Snaddon and Cumingham, Messss. N. MeLeod and P. Curran; E. E. MeKinnon; Executive Committee, Miss Barr, Messrs. J. D. Seaman, D. Gallanin, and E.Stewart. Mr. McSwain then took the chair and briefly thanked the members. Mr. Larkin proposed a ote of thanks to the Chief Superintendent for the successful uanner in which he had worked up the Association while president fur five years; secouded by Mr. Gallhant, and carried enthusiastically. On the yotion of Mr. Mellish, seconded by Mr. N. McLeod, Mr. L. Miller, the retiing secretary, with other outyoing oficers, received the hearty thanks of the Association. Mr. T. A. Lo Page gave a lucid nud instructive paper on Composition and Analysis, which was discussed by Rev. D. McNe.ll, Irof. Aulderson, Messrs. N. MeLend nud A. McDonala. After a vote of thanks was given to the railway authorities for rednced fares, and another to the city school trustes for tho use of the school-room, the
 sided, and a very enjoyable time was was ocut pipd. Mr. McS wain pro. sided, and a very enjoyable time was spent. The Licutenant-Govennor honored the mercing with his presence. The following prograume was

 Leord; song, Miss Harris; reading, Miss E. Law sons song, Miss McDonald; reading, Miss Barr ; Frevch soug, Mr. D. Gallant ; song, Miss MeLeod; aldriess, Rov. J.' M. McLeod; nudrees, Lieut.Governor, Hon. A. A. MreDonald ; recitation, Mr. A.' G. McDouald; finale, Auld
Lang Syne.

## Sabsemibe for tho weokiy "Oanada School Jowrual."

South Grex.-At the Grey county convention held in Durham, Oct. 10th and 17th, there was a good nttendance andi a keen interest was bhown
in the sulject under disculsion. Mr. J. Winterlorne gave an illustrain the sulbject under discussion. Mr. J. Winterborne gave an illustration of teacling a language leeson to a class of young pupils. Dr. Lun took up his subject "Dieteties." The essayist slowed that the race is deterioratng, esplecially in largo cities, where families often disappenr after the third genetation. In answer to several guestions asked by Mr. Winterborne and othors, the 1Dr. advised teachers to take only a lunch at noon and have dimer after the latiors of the day were over. He also urged the necessity of physical exercise and recommenteda walk of at least fivo miles a day. Mr. H. C. Roso discussed Tenchers and teachung. His address was cloquent and prnctical. Ho believed that teachers leave the profession because they are so poorly remumeratedthey are hit trally starved out. He advises a united effort to increaso their sularies. A heely discusson fullow ed in whicu Messrs. Thomposo Dixon, Campleell and Winteribono took part. Dr. Hixon supported the system of umform promotion exammations. Among their advantages he mentioned the followng:-1st. They form a sure and perfect basis for clasotication. 2nul. They prevent undue promotion. 3rd. Thoy afford nn meentivo to work. 4th. They trau pupls to pass future exammations. 5th. They excito puble interest in the school. Some slight disadi antages were also mentioned. Tho uniform system of promotion was approved of, by the convontion. In the evening a musical and hterary entertainment was held, at which $n$-very pleasant time was spent. The followny day thero was some discussion on the question of T'ownshlup Associntions. A committec was appointed who reported favorably of holding Township Associations. A second com. mittee was appointed as follows for selectung the time and plaees of first meetung of the local associations and arranging programme therefor:-Artemessa-Monroe and Dixon ; Bentinck-Nelly and Bell; Egremout -Sharp and Reid; Glenelg-MeDonald and Binnie; NornanbyRamage and Campbell ; Usprey-McKay and Chant; Proton-Rundie and Giillespie. Mr. C. Ramage, delegato to the Provinctal Association, read has rep.ort, which gave the essence of all the proccedings in ex. pressivo and apt langunge. A question on Corporal Punishment gave rise to quite a long discussion, in which Mr. Winterborno stated that there is no chld living but can be won oi er by kindness, and when a teacher has to punssh at all, the cause can be traced to some failure in himself ns a teacher. Many of the teaclicrs expressed a different opin. ion. Mr. J. S. Campbell gave an address on drawing in which he elowed itt,great value as a means of training the hands and cyes. Mr. Jas. Bmaio read an interestimg paper on "Encouragements and Discouragements of Teachers." The essay was humorons and instruetive. David Gricr gave a carefully prepared address on "Yublic Opinion," in which he showed its great power for evil when not properly directed. Mr. Winterborne gave some valuable information about teaching grammar, arithmetic, and geograplyy. He pointed out what should bo taught to each class in these subjects. He also illustrated the best method of teaching arithmetic to very young pupils. Mr. Winterborne recom. mended to teachers the followng works, as helps in the study of English :-Earle's Philology, Ayer's Orthoepist, and Whitney's Elementary Lessons in Euglish. The meeting adjourned to nieet a? Flestierton on 28th and 29th May, 1885. This has proved one of the most useful and best autended meetngs of the Association, about seventy teachers being present each day, besides several visitors from Duriam and vicinty, prominent among whom were Revs. Forest and Park.
Dufferin.--The Dufferin Tcachers' Assuciation met here on the 10th October. The first serssion was opened with prayer by Rev. Mr. Sherran, M.A., at 9:30. The minutes of last session were then read and adopted. Miss Cameron took up the subject of dretation but not having a clnss at her disposnl her subject was withdrawn in order to procure a class. The subject of syntactical blunders was taken up by Mr. Crichton, B.A. He illustrated the subject by several examples. The second session was opened by the minutes of last session being read and adopted after nhich the subject of dictation wns taught by Mriss Cameron and criticied by Misses Andersou and Jelly and Mr. Acheson and Mr. McLim. Tho presillent then gave an able and ex eellent address in which he dealt laracely upon "Superanmation fund. The Hon. ©. W. Ross, Minister of Education, was presented with an address of welcome signed hy the president on behalf of the Assoenation after which the How. Minuster gave a lecture on how "reading" slould be taught in our selools. The second session was concluded by a lecture on elocut.on Given by Miss Churchill. The third session was opened with prayer by Mr. McCormack. Mr. McArdle gave his nethod of teachung plinlosophy. An audiress on natural history was given by Mr. A. Slherran, M. A., for which he recenved a hearty vote of thanks. The fourth session was opened by an address by Ir. Lews on hygrene. The Rev. Mr. Ackay gave an elatorate and instunctuve essay on how study should bo prose. cuted, after which Miss Head gave a splendidly written essay on edncation. Mr. Stecle gave a practical and iustructive lecture on tho object of public school work in which hie touched on hygiene, ventilation heating of the school room, objects of teaching arithmetic, history, geograply and reading. Mr. Stecle recieived a well merited voto of thanks for his excellent lecture. The Rev. Mr. McKay closed the micetivg with prayer.

Wextwontin-This association met in the Waterdown High School, Friday, Uct. 3rd, 1). H. Inater, M.A., in the chair. The secretary, J. F. Rennely, Buadas, read the minutes of the last meeting, which were ablopted. Routme business was immedately proceded with.

Moved by Mr. R. Volhek, seconded by W. T. Leans, that the association hold has nest meetug in Dundas. The motion was earried at the atternoon session. A committee was appomed to select ollicers for the eusumy year.

The sulbject of Dictation was then taken up, led by J. II. Smith, Inspector of Puhlae Schools, and ably disenssied by Messis. Kimade, Burraved, Beckell, Maynard, Wilson, Mallard, Howard, Sharpe, Vollick, Behl, Obden, and others.

At the afternoon scosion the committee appointed to select officers for the neat year brought in the followang report:-

President, J. D. Bissonette, B.A., Dunhlas; Vice-President, J. F. Ballard, West Flamboro': 'Treasurer, J. A. Smith, Ancaster; Secretary, J. F. Kemedy, hundas ; Councllors, W. Cochrane, West Flamboro'; W. N. Stevenson, East Flamboro'; M. Nharpe, Aneaster; Miss Fisher,
Glanford; J. L. Kmrate, Marton; R. Mequeen, Beverly ; C. Nichol, Glanford ; J. L. Kimrade, Marton; R. Meçueen, Beverly; C. O. Nichol Binhrook; J. Kew, Saltheet. Adopted.

The teaching of composition and practical English was the next sub. ject. The discussion was led by Inspector Sinith, and some valuable idens were elicited from several of the members present.

The "Entrance Examination" was then taken up by the chairman in a very able address, wherein were shown the defects in this very 1 m portunt branch of our educational system. A copy of the same will te torwarded to the Education lepartment. The evening brou, he all the friends of Eauc:ation in this locality to the Drill-Shed, where a concert had been arranged by Prof. Johnston, of Hamlton, assisted by Misses I Walon, Mulatyre, Bowes, Messrs. Mortun and Anderson, of Hamiton, and Miss A Fraser, of Wiaterdunal. Inspe tor Smith, ofldressed the mecting in a few well chosen words, congritulating the ratepayers on the suceess of education in this part of the comaty, and throughout the county in general. D. H. Humter filled the chair in his usual happy, style. Next day Mr. WV. N. Stevenson twok up "Perspective Drawing," and showed very clearly how the appearance of natural objects may be transferrel to paper by a few simple and wcll understurd rules; that cubes, pyramils, globes, ete, may be copied with accuracy. The discussion on drawint was continued by Miss E. A. Baskerville and J. F. Kennedy, of Dundas.

Mr. J. F. Kemedy then showed how a lesson in geography sliguld be taught. The old system of begmaing wath the complex and gonig to the simple he condemned.
 instructive paper on Rheior c, showing a great many fatal errors that may be avoided by proper attention of the teachers to accent and pronunciation.

The association then adjourned, all expressing great satisfaction at the subcess of the mecting. This is the first meeting held outside the city of Hamilton. It is w be hoped that tha itaterant process wall continue in its progress.

Priver Enwarn - The half yearly convention of the Teachers' Association of the County of Prince Edward, was called to order, Oct. 17th, by R. W. Mufray, presudent, and opened in prayer by G D. Platt, B. A., Inspector. The minutes of the last meetugg were read and approved. The calhng of the roll was deferred untal the afternoon, and M. Wh. Faul engate ithe attentiun of the cuatention by presentug hes methods of
solutimn of the problems in Arithmetic, sit solutinn of the problecns in Arithmetic, sit at the July exammation, for Shit and ond rlass Certificates. His methorls met with the approvai of the teachers nesembled. Mr. Rose, of Milford, was next called upon for history. His method was very goon. Ar. Brown made a few remarks upon teaching history, showng how he made it a very interest. ing subject for hus classes. A feneral discussion followed concernung text houks un histury and the following reselution was brought torward:
Resnleed. That in the opinicu of this culu ention, Culleer s history is superior to Edith Thompsen's. - Carried.
At half-past one convention was agaia calicd to onder, and Mr. J. J. Tilley, Morel school Inspector, tonk up the subject of composition. His was an excellent paper, and well recelved by the convention. Miss Williamson then gave an excellent essay on the relation of a teacher to his school. She was hiofhly complancnted lyy the maspector, who sud that slae practised what she had read, and wis second to none in the county. in matness of school room and thoronghness of work in the school. A communication respecting teachers ennention was next read by the presulent. The following offieers were elected for the ensumg year:- President, H. M. Faul; Wice Fiestdent, Mr. Trompour; Sccretary, Mr. Weeks; Treasurer, Mr. Platt. B.A., Inspector; Executive committee, Messrs. Brown, Dobson, Rose, Mu: 3y and Mies Williamson. In the co cning an excellent address was delivered by J. J. Tillcy, in the Town Hall. A very large number from the town and vicinity were prescnt. Saturday Mr. Tilley was first called upon for Geography. After a short intronuctory speceh on the subject of Geography, violently condemning the hurilening of the chillis mind with the thousands of little names of places, ctc., anil authorized geographics, he proceded to
slow how the subject shoull be taught to juniors. For senior pupils the following order of tating up the geograplay of a country was recommended: I. Physical features, (a) mouithins, (b) water divisions. II. Climate of different parts. III. Difierent plants. IV. Animals. V. Minerals. VI. Exports and imports., including water routes. VII. Inhabitints, commerce and occupations. VIII. Tuwns naml cities. 1.X. Government. Algebra by Mr. Dobson, papets of 18S4. The ques. tions were handled in his usual short and accurate style. The prosident answered the questions presented in the question-drawor. $"$ School Rethis or the Relation of the Teacher to his Work," by Mr. J. J. Tilley. This was taken under these headings: Relation, ist to pations, end to chididen, 3rd to each other. The followimg useful hints were given and commented upon: Influence of the teacher should not be confined within the four walls of the school room. A teacher shond be a perfect model for imitation. He should visit the people. There should be perfect ha:mony between the teacher and the parents. There should be a very close reliation between the teacher and trustees. A trustee should sisit the school ofte:, and make himself perfectly familiar with the working of the schnot. Children should be tanght things that will be hencincial in after life.

## REVIEWS.

Giag fon . ittles Sisorns.-Oliver Ditson \& Co., Boston. This is a collection of easy and pleasing so gor promary and kmdergarten schools and the nursery, compiled by Miss Elizabeth N. Einersion and Miss Gertrude Swain, assisted by Mrr. L. O. Emerson. The ladies deserve much rredit for getting up such a pleasing little book. The nelody is easy, tho wirds aipupriate, and the illustration, attractive. There are a few motion soans, "think there ought to be more, as these are useful as well as pleasurable. The book is very neatly goteen up, and from its appearanco and the nature of its contents it should be in use in every place where infanteducation is carried on.

This. Nohth Amemcis Revilw for November contams, among other interesting matter, a strikumg article on "Ma i Thase an School," by the Rev. Dr. I. L. Hale. The author holds that a half-time system would be moro zavantigeous, not only for the jounger pupils, uot only for special classes, such as the children that begin to work in mills about the age of livelve, but for all. Too much of a civilized child's tume is spent within the walls of his clsss-room. Heace, in the first phace, injury to health. Henco, in the second phace, "ant of adaptation tw the practical work of hife on the part of the thoroughly schooled child, because has lessous havo prevented ham from having time to learn to do any other work. 'this leady to two evils. Tho majority of childrea are withdrawn from the public schools and set to wurk befure thoy cam read, wrike, and caphes tardy, and nover afterwards have an opportunity of improving themselves in these respects. In a comntry whero every man has a vote it is a serious thing that the school traiaian uf the masses sl:ould reach mo higher point. Secoudly, it has led to a demand for the introdaction auto the schools of manual instruction in the elements of the various trades. Boys and girls ares to be taught by tho schoolmaster or schoomist ess how to use various twols. Thas is an aijsurdity The teacher prubiably has littlo acquaintance wath the use uf twols, and has already tow inatuy subjectis to attend to. The proper remedy is sumo system of half tume. Arrango enthee that each pupil shall attend only half of each day or that he shall attend every secoud term. In has spare timo let him do any work his parents may set him, and become acquainked with anture. Fo will build up his constitution, acquire maunal dexterity, and gam all sorts of usefal practical havwledge. P'rubably, too, the averafo buy ur gird of siswets lifought up un thas system will nut have less kuowledge of the school curriculum than he has at present. The alternatuve of work and school wal render each a pleasant relice from the other, and study will be more real while it lasts. The farmer'n son outstrips the city bred boy in the race for weallh and honor, mainly becauso he has practically been a hall timer, and has learnt nach that schools caunot icaci.

Messrs. Gunu, Hrath \& Company, Boston, will soon pubhsh an antroduction to tho "Study of Language," being a crituenl survoy of tho history aud inethods of comparative philology of the indio-European lauguages, by B. Delbriick, translated by E. Chaming.

Cornell University has it teachers, 461 students, and 15 courses of studio.

Sir Algernon Borthwick, editor of tho London Post, lives in tho famous house occupied hy Lord Byron.


[^0]:    - A paper real by Mr. J. L. Ilurhes, Inapector of Caty Schowls, Toronto, at th

[^1]:    Teachers, youn were well satisfied with the ond Monthy schioon Juernal, you will be much more so with the weekily.

