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## The Canada School Journal.

## Vol. IX.

TORONTO, OCTOBER, 1884.
No. 10.

## The ©ianidit Schoal Nautital

is publighid the yilist of bigh hontif at
54 FRONT STREET WEST, TORONTO, ONT., CAN. Sabscription $\$ 1.00$ per year, payable in advance. Address-W. J. GAGE \& CO.'. Toronto. CANADA SCHOOL JOURNAL HAS RECEIVED

An llonorabls Mlention at Paris Exhibition, 18is.
Recominended by the 1 Ifmutier of Eilucation for Ontario.
Recommended b!y the Courcil of Public Inatruction, Quetec.
Mecommended by Chief Superintendent of Bducation, Dew Brunsuick.
Recommended by Chief Superintemdent of Eitucation, Nora Scotia.
Mecommended by Chief Saperatendent of E'ducation, Britush Columbia.
Reoommended by Chief Superintentent of Educution, Maniloba.
Recommembed by the CAif Superintentent of Eilucation, f'. E'. Island.

The Publishers frequently recelve letters from their friends complaining of the non-recoipt of the JOURNAI. In explanation they would state, as subscriptions are necessarily payable in advance, the malling clerks have instructions to discontinue the paper when a subscription expires. The clerks are, of course, unable to make any distinction in a list containing names from all parts of the United States and Canada.

THE SPIRIT OF THE TEACHER.

> "Lay the young eagle in what nest jou will,
> -The cry and swoop of eagles overhead
> Vibrate prophetic in its kindred framo
> And make it spread its wings
> And puise itseli for the eagle's flight." -Geörge Eliott
In the last analysis life is found to be something more than organization. In the daily work of the teacher, improved methods of instruction, skilful plans, and apprupriate machinery may multiply power, increase cffets and exalt inluence. But all machinery is by itself mechanical and needs a soul of power behind it, a living spirit to move it, an immaterial essence transfused into it, otherwise, it is lifcless, dead, and can produce no spiritual result.
. Life itself eludes the most delicate chemical tests, and the finest and best results of the true teacher cannot be estimated either quantitatively or qualitatively by the crude tests at our command. The white of an eqg and the puison from the fang of a rattlesnake ate chemically indistinguishable, yet one is wholesome fuod and the other is deadly puison. So also our educatuonal tests must futever fail to measure the higher spiritual products of education, the influence of intellect on intellect, of soul on soul, of heart on heart. .These can never be exhbited in tabulated results, nor their sum cast up in percentages. Yet they are all there for eternity, not the less valuable, not the less worthy of attention because we cannot precisely measure them with our rude instruments or estimate their weight in our educational balances. What we can weigh
and measure is likely to occupy a disproportionate share of our thoughits and attention.

What is the soul of all our educational machinery? What is the great motive force that propels our system? What is the invisible power that resides beiind courses of study and instruction and gives them organic potency? In short, what is the life and soul of effective teaching? It is

## THE SPIRIT OF THE TEACHER.

And what is the spirit of the true teacher? We cannot define it any more than we can define the spirit of poetry or the perfume of a flower. It is the spirit of Socrates, who, by his spiritual midwifery helped to a birth the intellectual throes of his disciples. It is the spirit of Milton, who, amid his poverty and blindness, "saw with that inner eye which no calamity could darken," and labored diligently at his great work through all discouragements and without the least hope of carthly reward. It is the indo qitable spirit of Wellington, who rude withuut a tremur through iron haic, and listened un blanched to the oft-repeated urder, "Cluse up the ranks!" but wept as tenderly as a mother for her first-bern as he walked over that terrible field in the calm moonlight. It is the spiri of Pestalozai and Frobel who delighted in little children and spent their whole lives in working out plans, to promote their happiness. It is the spirit of Robert Raikes, Dr. Guthrie, and the poet Longfellow. It is the spirit of that Greatest Teacher who walked in Juden eighteen hundred years ago, took up little children, put his hands upon them and blessed them.

## THE ENGLISH EDUCATIOÑAL CODE.

The-English Education Department now deals with the instruction of very nearly five millions of children, and spends a Government grant of over three millions of pounds sterling. The general duministration of the School Law is governed by a legal document called the Cude, which is subject to modificatuons from jear to year. Supplementary instructions are issued from time to time to inspectors and school managers to point out the proper interpretation and practical application of the Code. This series of official circulars has just been consolidated in a ner circular letter from the Department, and English educationists are at present interested in comparing and discussing the numerous changes introduced. We select a few points from this rather formidable document, which will serve to give a glimpse of the tone and spirit in which the English school law is to be carried out.
Inspection is conducted by Senior Inspectors of diaisions, each Senior having under him a cunsiderable staff of Suh Inspecturs and assistants tor seperate distritts. These officers are warned against hurrying through their work, against keeping children under examination for an unnecessarily long time, and are plainly enjoined that infant schouls should not be detained
beyond the ordinary hour of dismissal, and that the elder children should not be detained without some intermission for recreation.

In the system of payment by results on the basis of the Inspector's eamination, the individual examination in the three $R$ 's is to be carried on as usual. But examination by sample is for the future to be the rule for (1) the work of infant classes, (2) needlework, (3) recitation, (4) singing, (5) mental arthmetic, (6) map-drawing, (7) class subjects in general. In selecting the sample class the Inspector will call out a set of children more or less arbitrarily chosen, and the teacher will then add two or three of his hest scholars. Three-fourths of those examined must show that they have been well taught before the work is marked sood.

In a general way the Inspectors are not to interfere with the details of the school tme-table. They are, however, to draw the attention of maragers to two or three points of grave importance when they find occasion, as (1) too little time allotted to a subject, for instance, for the amusing exercises which ought to form part of the dally routine of every infant class, (2) extra subjects must not be attempted if they cannot be efficiently taught in the ordinary school hours, (3) detention of scholars beyond the prescribed time, or any attempt to make up for neglect or for injudicious distribution of work by special exertions just before examimation, must be promptly reported.
No notice is taken of the recent legal decision that home lessons cannot be enforced aganst the will of the parents. But the instructions state that home lessons are plainly unsuitable for delicate or very young children, and that owing to special circumstances home lessons in any form may be mexpedient in some schools. The inference is, the Times remarks, that no home tasks should be set in the lower classes except with the distinct sanction of the managers, and that ir the upper classes not more than half-an-hour's work should be given, and it | should be set, not to break up new ground, or call forth new mental effort, but simply to illustrate and impress the lessons already taught.

The direction discouraging corporal pumishment is repeated. When resorted to it must be admmistered only by the head teacher, and a record of it entered in the log-book or school diary. This is an excellent rule which ought to be enforced everywhere. There are many other interesting points in this circular to which we cannot at present refer.

Inspectors sometimes have just cause to complain of want of promptness on the part of teachers or School Boards in for. warding half.jearly ruports. If teachers desire to secure al prompt apporionment of the Government grant it is necessary to have the reports furmished at an early date, as the delay on the part of one teacher will delay the whole business.

Tenchers should not blame Inspectors untll they are satisfied that all reports have been correctly made out and forwarded to the Inspector.

[^0]THE NEW REGULATIONS FOR COUNTY MODEL SCHOOLS.

The Minister of Education has issued in pamphlet form the regulations with reference to County Model Schools, which we purpose reprinting in the School. Journal for the benefit of teachers. In glancing over these pages we see much to commend and some few things that are open to criticism. But it will probably be of more service to point out briefly pratters needing improvement than to dwell on those which deserve nothing but prase.

First of all, the regulation of 1877 should be enforced which requires for each County Model School a Principal holding a First-class Provincial Certificate. This rule has been held in abesance for seven years and should now be-rigidly carried out in justice to those who have prepared themselves and passed for higher certificates.
The daily register first issued to these schools was a clumsy piece of old fashioned machinery. The new one has been improved and simplified a good deal, but still inflicts a certain amount of useless labor on the Principals, whose energy should be carefully economised fur higher purposes than filling up complicated forms of report. In passing, we may remark that a few atords serve the purpose much better than a long array of figures to give an accurate statement of a student's work.
In the next edition it would be well to distinguish more carefully between "observation" and "criticism". The "hints on observation" are, in fact, really points of criticism such as an examiner might require to notice in testing a candidate for a permanent provincial certificate. They are wholly out of place for the tyrus who go to the class-room to observe good teaching with the intertion of noting what it is and how it is done. Criticism is quite foreign to the purpose of such a visit, and should be stric tly prohibited except by the Principal himself. If permitted it will place the student at a wrong stand-point, and effectually prevent that humble, patient, exact observation of all the facts before him which ought to be required at his hands. These young observers are not competent to pass judgment on the matter, method, plan, purpose, and style of a first-rate teaching lesson. If allowed to attempt it they will probably become only still more inflated with that pernicious self-conceit which is a measure of their selfignorance, and ought to be emptied out of every teacher-intraining as speedily as circumstances will permit. These "hints" should dircct the students to observe accurately the precise facts, and to give an exact account of all that takes place before them, including tone, gesture, expression, etc., the minutest details. It will be found on trial that not one in fifty can at first give a complete history of even a short lesson, still less describe the flavor and essence and individuality of the best teaching. It is early enough for criticism after the student has been taught to look patiently until he actually sees what he was sent to observe. 'To ensure this seeing the Principal should test thoroughly by sharp cross-examination the extent and accuracy of the obse vations made, and he should be very sparing in his criticisms f the work done by his assistants. If he has an assistant for his own class, and this
should be made imperative, he may observe most of the lessons along with his students, and thus be prepared to correct and supplement their imperfect observation.

The reports by the students of these observation lecsons should be chielly oral not written, as the Regulations seem to imfly. The memorman made in the chass should be as briet as possible, for while the student is writing his attention is completely diverted from observation, and if his notes are elaborate he will not see more than half the facts of the lessnn as it goes on. Full written reports may be assigned as home work, which would give useful practice in composition and enable the Principal to assist the young teachers in the arquisition of good and correct language, one of the most useful things the teacher can possess.

In the reports by assistants of the lessons taught by students, account should be taken of success as well as of failure. If nothing but faults are noted the students come by and by to experience a sort of chall which discourages the more sensitive and renders them unable to exhibit the teaching power they really have. The sunshine of sympathy is necessary above all to bring the al wer of good teaching to perfection, and therefore the goved points should be reported as carcfully as the faults, of which, indeed, the student is often only 100 painfully conscious. We read:-"Assistant teachers should not be reticent in reporti.g criticism." This is well, but the words following, "particularly if the work has been badly done," ought to be struck out as calculated to leave a wrong impression. There are the wa:chful eyes of the Principal and the final examination to weed out incompztents, and assistants are morc likely to criticise too harshly than to over-estimate undeveloped teaching power which may very likely soon eclipse their own.

The Regulations indicate that thirty lessons should be taught by each student in the various classes of the school. This is certainly an excessive number for so short a term as thirteen weehs, and some of the time cuuld be better occupied. An hour and a quarter a day for seven of these short weeks is too ambitious, and should not be exacted from any but the vary dullest students with little apitude to teach. 'Not the number of lessons taught, but the number and sweep of the principles thoroughly wrought into the very fibre of the student's thinking will determine his success in the schoolroon. He will shortly get practice to his heart's content, meantime, a dozen lessons will test his power and reveal his weakness quite as well as thirty or a hundred. Some of this time might be utilized by the Principal in reviewing non professional work and giving the candidates a teacher's grasp of the subjects they will require to handle, and a more thorough study of the best methods of presenting them. The first three Readers might be gone over in course so as to make sure that every candidate could pronounce every word correctly. It is well-known that many teachers mispronounce the words of the first bcok, such as of, wilh, put, full, ctc., and thus propogate their own inaccuracies, while many such barbarisms as "four over five" for four-fifths or four by five, need a carcful hand to cradicate. Much tume should be devoted to such work and less to practice lessons. Our space will not admit of further remarks at present.

## THE NORMAL MUSIC COURSE.

The First Reader furnishes sufficient for the subject of one notice. The book is so faulty that we are more than surprised it should ever have found a place on the authorized list. We are more surprised, however, to find that it is the only book wuthorized, and that in future, all the musical genius of the school-rooms in Ontario must receive its inspiration from this series. Such a state of affaits seems almost criminal.

If music is to be taught in the Schools of the Province-if it is desired that a love shall be created for the study of this important subject, the ubject can certinly netet be secured by the use of a book such as that before us. We note a few of the points.

1. The whole of the subject matter of the selections was spun from one man's brain. Supp se the compiler of a school reading-book should sit down and try to fill it with his own composition, zuritten to order, instead of culling the gems scattered through our English literature? There is a very large literature of children's songs by the best authors. The unavoidable sameness of this look will prove very tiresome.
2. The exercises, and especially the songs, are not very melodious in the ear of childhood, and they are non-educat:onal in respect to the musical ear of the child from the fact that they wander too far from the natural harmonies. Every song, even
in e part, has its harmonic foundation ; and that supposed hammony, in order to produce the right effect upon the little learner, should be close to the main pillars of the kcys.
3. The first reading lessons are written at too low a pitch for the voices of little children. If the key in which they are written is not to be kept in their practice it is falsehood to say that they are in that key. (See M. Tomlins in the June "Century Magaine" on Children's Voices.)
4. The early reading lessons are too stiff and mechanical; this sort of exercise is always fatiguing to little learners, and by their tendency to destroy the child's pleasure in singing, keep him from making the progress that might be made by the use of pleasant little song-forms as reading lessons. Their use would be analogous to pronouncinz the words in a spelling culumn instead of those in a sprightly and well cons:ructed sentence. It might be a trial of skill, but not particularly improving to the mind.
5. In the construction of these exercises the laws of musical form have been repeatedly violated. All German writers-and they lead the world in school music-are vary careful in regard to this point.
6. The reading lessons have the numerals that point out the place of every note in the scale printed throughout, which takes away the necessity of pupils using their eyes to measure distance upon the staff, an act which liss at the foundation of all proficiency in music reading. To read music by this book the pup.l would really have nothing to do with the notations cxcept to observe the shapes of the notes indicating duration.
7. The preface puts forth the claim that the "true educational principle of instruction" as applied to music is the pecular possession of the authors of this book. The contents of this book fail to justify this pretention. Aside from a few incidentals of instruction, borrowed from the Tonic-Sol-Fa system, the same principles have been appplied to music teaching by all our best music teachers ever since Dr. Lowell Mason's day. The elementary music books of thirty years ago contained just as good reading exercises as this, and much better songs.
8. The prefuce also tells us that the words Ti, Tin, Te and To name the value of sounds in length. As used in this book they do no such thing. "Ta and To have exactly the same
length. They unlig bame the place of a nute in a measure, in the same way as the common counting of time does, which, for this purponse, is simpler and better, and in use by all musicians. The genuine lirench time-name system is quite a different thing.
9. There is a great inuitiplicity of exercises without any very apparem aim, and the difficuhies, chen when uercume, cunfer a kind of ahility which is of much less value to a child than the true development of his musical sensibilities.
10. Mother Goose is all very well for heme use, but it is not necessary to heep it before the chuldren during three or four cars of their schoul life. If the musti, such as it is, of thus book is new, the words of the songs are of the most hacknejed description.
11. To corstruct a good song-reader, that is, a book in which each.step of progress is taken by means of a weil-constructed little song, is a work of great labor and difficulty; but to bundle together fift! pages or so of cacrcises in all heys and il sorts of time, mostly without words, has been the make-shif of Cheap Jack singing hook makers for years.
12. This book is excellent as it illustrates the advance in the art of paper-making, type-founding, engraving, printing, and book-binding.

## v HIGHER EDCCATION OF WOMEN.

The announcement is made that the Council of University College have decided to admit women to the ordinary lectures in that institution. This is the most signal triumph achieved by the workers in the cause since the doors of Cornell University were opened some years ago. University College is a state institution, and the applications of the women had in the long run to be dealt with as a matter of public poltcy. The Legislature having been appealed to, and having expressed a wish that women should be allowed to enjoy the privileges heretofore monopolized by the other sex, there was nothing for it but complarm . on the part of the College authonties.

For the benefit of those women who would like a University education but are afraid to venture within university precincts we may state a few facts. In the first place the entrance examination is not difficult-very little more so than the High school intermediate. Then the course, after admission, is extremely flexible, the student being allowed a large number of options so that only one department is, in the case of those who take honors, required for graduation. Now that women are admitted to lectures, suitable accommedation will no doubt be provided, and the necessary supervision of the rooms set apart for female students.

It is to be hoped that women will in increasing numbers attend 'Turontu, Victuria, and Queen's Unisersity Culleges. They are allowed at present to teach in High Schools as assistants, but they cannut become head teachers without taking a degree in arts. There is nu redsun why they should be su restricted. In fact, several of them are now in their fourth year in Toronto University, and these will probably all tahe their degree of B.A. next spring, especially since thes have been adniitted to lectures.

Ohl teachers. let us hear from you. often. Write briefly.

## THE NEW PROGRAMME FOR TLACHERS.

The revised programme of studies for teachers, which has just been distributed, presents a very marked controsi to that which it has superseded. Under the old regulations the High Schouls (in which almost all our public school teachers are trained) were embarrassed by the undue latitude allowed to candidates in the way of options. The smaller schools in particu-* lar found it extremely difficult to arrange their work to advantage, as alniust any time-table that cuuid be framed left numLers of students unemployed. The new regulations abolish options altogether. A cast-iron ccurse is laid down for both third and second class candidates, a bonus being added in the case of the latter for work done in music, or Latin, or French, or German. Whilst we believe the uld scheme to have been faulty in its "multiplied options," we venture to think that the new one is not without some very objectionable fcatures. Why, for instance, should a bonus be given, for extra work, to second class candidates and not to thirds also? And why refuse to girls the option of taking a more congenial subject in place of Algebra? This option we regard as one of the best features of the old programme, since, while it did not prevent any candidate with a mathematical leaning from taking Algebra, it allowed those to whom the subject was an insurmountable obstacle to develop a taste in other and, at least equally useful directions. We believe this particular option was found to work well everywhere, and we are sure its abolition will be generally regarded as retrograde in its tendency. Again, why is the subject of botany excluded even from the list of subjects for which a bonus is given? This subject has been rapidly growing in popularity in our High Schools. Its advantages as an educational instrument are exceptionally great, and it may be fairly said to fill a place in our school work for which no other subject is so well adapted. The new regulations must inevitably have the effect of undoing any good which may have been accomplished in this desirable ficld. It is a curious commentary upon the action of the department that, at the very time when the pursuit of this branch of science is being thus discouraged, the High School section of the Ontario 'Teachers' Association has recommended that Bqtany and Chemistry should form part of the work of the University matriculation examination. Some other points we reserve for another occasion.

## INSTITUTE WORK FOR NEXT YEAR.

We confess to a feeling of disarpointment on reading the circular issued by the Minister of Education regarding the Institute work to be done next year. We lelieve our dis appuintment will be shared by the great majurity of inspectors and teachers in Ontario. We have the fullest confidence in Dr. McLellan's ability to do the work committed to him in a way that will be perfectly satisfactory to the profession, provided he be left free to do it in the way that he deems best. The universal opinion was that the "right man was in the right place," when he was appointed Director of Institutes. Every one expected his appointment to indicate an advance in the
professional training of the vast body of teachers already engaged in training. Too many seem to think that when their Normal School career is ended their training as teachers is finished. In reality it has only been commenced, even by the best Normal Schoul training, and no natiunal system of education can be regarded as complete which does not devote special attention to the continuous culture and training of the entire teaching profession under its jurisdiction.

We expected that, when a Director was appointed, the work of conventions sould no longer be allowed to continue in the disconnected, irregular and indefinite way in which it was necessarily carried on without supervision or departmental guidance. We hoped that a brief and carefully selected course of professional reading, as well as a few good books in general literature would be prepared to be read by the teachers of the emire Province each year, and that these or certain parts of them would be taken as the basis of discussion for a portion of the time at the Institute meetings. At the very least we supposed that the subjects to be taken up by the departmental officer at the Institutes would be announced so that all teachers could prepare themselves for taking pari intelligently in their discussion.

Weare disappointed. None of our hopes have been realized. So far as we can learn from the Minister's circular, the Institute work of the coming year is to be no better, if it is to even be as good as formerly. Dr. McLellan is to attend one half of the conventions. This makes little change. He attended nearly as many before, by invitation of the Associations themstlves. The change will be an improvement for Dr. McL ellan who is now allowed a well earned release from his High School duties, but the Institutes will not receive much benefit from his anpointment if he is merely to be placed on a level with the Inspector of Model Schools in the management of his own de. partment. We do not believe that the country will approve of the course which the Minister of Education apparently intends to pursue, by using Dr. McLellan as an Inspector of Model Schools during a part of the year, and making Mr. Tilley his equal in Institute work. We are quite clear that the Associations to which Mr. Tilley is to be sent would not havē invited him voluntarily.

In saying this we express no opinion regarding his fitness for his own work as Model School Inspector. 1

## THE WEEKLY SCHOOL JOURNAL.

At the continued requests of numerous inspectors, teachers, and trustees throughout the Dominion, the publishers of the Canada School Journal have decided to apply for a charter incorporating a joint stock company with a capital of $\$ 10,000$ for the purpose of issuing the Canada School Journal as a sixteen page weekly paper. It is the intention to divide the stock into 1,000 shares of $\$ 10$ each. These shares will be offered to inspectors, teachers and educationists generally. In order, however, to insure as great a distribution of stock as possible, only a limited number of shares will be allotted to any one person. The new paper will be placed under the ablest management that can be secured, and nothing, left undone to
make the Weekly Canada School Journal a first-class cduca tional paper, a credit to the teaching profession, and worthy of the support of all intelligent persons interested in the advancement of education.
'The subscription price will be one dollar and fifty cents. Specimen copits will be issued about the close of the present year. In the mcantime, parties wishing to purchase stock will be furnished with full particulars by applying to the Secretary, ,Mr. J. L. Robertson, No. 54 Front Street West, '「oronto, Ont.

## Ethathenatical 畋quatment.

## PRINCE OF WALES COLLEGE, P. ©. ' LAND.

## Matriculation and Scholarshir <br> ARITHMETIC.

three houns allowed for eacin parer.
Augrest 19th, $128 \%$.

1. A bankrupt pays 25 cents in the dollar, and the total of his payments amounts to $\$ 8,000$. What was his debt?
2. A. bequeaths his properts in the following manner:-to B. $\frac{1}{3}$ of it, to C. $\frac{1}{4}$, to D. $\frac{1}{5}$, and to $\mathbf{E}$. the remainder amounting to $\$ 2,600$. What was the sam bequeathed?
3. Express as a decimal :-

$$
-\frac{35 \div 4 \frac{1}{3}-\left(4 \frac{1}{2} \div 3 \frac{3}{5}\right)}{3+\frac{1}{5+\frac{4}{3}}}
$$

4. If the price of gold be 4 guineas an oz, what is the valuo of a gold ornament woighing $3 \%$, of which 18 parts out of 24 are pure gold ; alluwing 3 shillings and 4 nence per oz. for the value of alloy, and 25 per cent. upon the whole for expense of workmanship? Express the answer in dollars and cents.
5. A fast train leaves Charlottetown for Tignish, a distance of 120 miles at 2 oclock, and travels at the rate of 25 miles per hour; at what time must a goods train which travels at the rate of $1 \overline{0}$ miles in 50 minutes, have left so as not to be overtaken by the fast train?
6. A. invests $\frac{8}{3}$ of his fortuno in the five por conts at 95. , and receives therefrom an annuai dividend of $\$ 1,900$. He invests the remninder of his fortune in the 6 per cents, and derives thence an income of $\$ 3,800$. At what price was the latter stock purchased?
7. A. can do a piece of work in 25 days, $B$. can do it in 20 days, and C. in 24. The three work together for 2 days, and then $A$. and B. leave; but C. continues, and after 88 days is rejoined by $A$. who brings $D$. along with him, and these three finish the remainder of the work in 3 days more. In what time would D. alone have done the whole work?
8. If 4 men and 18 boys working together, can do three times as much work per day, as 2 men and 4 boys together, compare the work of a biy with that of a man.
-9. The prime cost of an 80 gall. cask of wine is $\$ 200$. Five galls. are lost by leakage, and 85 galls. are sold at $\$ 3.50$ per gallon. At what price per gallon ought the remainder to be sold, so as to gain 50 per cent. upun the whole original cust?

## GEOMIETRY AND ALGEBRA.

1. Prove that the sum of the three angles of any trianclo is equal to two right angles ; and, thence, that the angles at the base of an isosceles right angled tmangle are onch equal to half $\Omega$ right angle.
2. If any anglo and its supplement be bisected, the bisecting lines are at right angles to one another.
3. The secant which falls upon two parallel lines makes the alternate angles equal to one another.
4. If the square described upon one side of a triangle be equal to the sum of the squares upon the two other sides, the triangle is right. angled,
D. Prove that'if the straight lino" which bisects the'vortical angle of a triangle, also bisects the base, the triangle is isosceles.
5. Simplify:-
$2\{3 a-2(b-3 c)\}-4\{-2 b-3(2 c-a)\}+\{c-3(-b-2 a)\}$
6. Divide $1+2 x-19 x^{6}+16 x^{7}$ by $1+4 x+7+7 x^{2}+10 x^{3}+13 x^{4}+16 x^{5}$.
7. Divide $x^{3}-2 a x^{2}+\left(a^{3}-a b-b^{2}\right) x+a b(a+b)$ by $x-(a+b)$.
8. Resolve into elemsutary factors :-

万x $x\left(x^{2}-y^{2}\right)+3 x(z-y)^{2}-12 x(x-y) y$, and $12 x^{2}-31 x y+20 y^{2}$.
10. Solve the following equations:-
(a) $a(x-b)=b(a-x)-(a+b) x$
(b) $\frac{1}{1} x-\frac{1}{8}(8-x)-f(5+x)+13=0$.
(c) A man and his wife could drink a barrel of beer in 15 days After drinking together for 6 days, the woman alone drank the remainder in 30 days. In what time would cither alone drink it?

EDUCATION DEPARTMENT ONTARIO, JULY EXAMMNATIONS, 1884.

ALGERBR.

SECOND ClASS TEACHERS.
Eraminer-J. C. Clashan.
$r$ 1. Show that $(x-y+z)^{3}-x^{3}-(y+z)^{5}$ is exactly divisible by $x(y+z)(x+y+z)$.
$\checkmark$ 2. Write down the factors of
$x^{3}-(a+b+r) x^{2}+(a b+b c+c a) x-a b c$, and apply your result to obtain the factors of
$\checkmark \quad(a)(a+b+c)(a b+b c+c a) r-a b c$;
(b) $\left.2(a+b+c)^{3}+1 a+b+c\right)\{a(b+c)+b(c+a)+c(a+b)\}$ $-(a+b)(b+c)(c+a)$.
3. If $3 x=2(q+r)-p, 3 y=2(r+p)-q$ and $3:=2(p+q)-r$ then shall $x^{2}+y^{2}+z^{2}=p^{2}+q^{2}+r^{2}$ and $x y+y z+x=p q+q r+r p$.
4. If $\frac{a x}{b-c}=\frac{b y}{c-a}=\frac{c z}{a-b}$ then shall $a x+b y+c=0$, and $a^{2} x+b^{2} y+c^{2} z=0$.
5. If $a=-\frac{1}{2}(1+\sqrt{-3})$ then shall $-\frac{1}{a}=-\frac{1}{2}(1+\sqrt{--3)}$, and $a^{3}+\frac{1}{a^{3}}=2$.
6. Solve-
$\checkmark$ (a) $\quad \frac{4}{x-1}-\frac{1}{x-4}=\frac{3}{x-2}-\frac{6}{x-3}$;
$\vee$ (b)
$\left(\frac{x}{a}+\frac{x}{b}-1\right)\left(\frac{x}{a}-\frac{x}{b}+1\right)$
$+\left(\frac{x}{b}+\frac{x}{c}-1\right)\binom{x}{b^{x}-\frac{x}{c}+1}$
$+\left(\begin{array}{l}x+\frac{x}{a}-1\end{array}\right)\binom{x-{ }^{x}}{c-\frac{x}{a}+1}=1 ;$
$r \quad(c) \quad\left(2 x^{2}-2 x+1\right)^{2}=(x-2)^{2}$.
$\checkmark$ 7. Solve the simultaneous equations-

$$
\begin{gathered}
x^{2}-y^{2}=x y+1, x^{2}+y^{2}=2(x y+2) .
\end{gathered}
$$

8. A boy spends has money in oranges. Had he got five more
$V$ fur his muney they wuuld have averaged a cent each less, but had much did he spend?
9. Find a number such that if it be divided into any two parts
$r$ whatsoever, the square of one of these parts added to the other part will be equal to the square of the latter added to the former.

Solutions. - 1. Fut $x=0$, and we have $(y+z)^{5}-(y+z)^{3}=0$.
Put $y+z=0$, and we have $x^{3}-x^{3}=0$.
Put $x+y+z=0$, i. e., $y+z=-x$,
and wo get $0+(y+z)^{3}-(y+z)^{5}=0$.
$\therefore x, y+z$, and $x+y+z$ are factors. -Ser Teachens' Hand-
2. $(x-a)(x-b)(x-b)$--Sbr Handnook, p. 10, 4, Bk.
(c) Comparing this with the given expression we see that $x$ corresponds to $a+b+$; and that the first f,wo torms vanish when wo substitute $a+b+c$ for $x$ in the first expression. Hence $(a+b+c-a$, $(a+b+c)-b,(a+b+c)-c$, or $(b+c)(c+a)(a+b)$ are tho fnetors.
(b) For $(a+b)(b+c)(c+a)$ substitute the expression in (a), and we got
$2(a+b+c)^{3}+2(a+b+c)(a b+b c+c a)-(a+8+c)(a b+b c+c a)+a b c$, or, $\left.(a+b+c)^{3}+(a+b+c)(a+b+c)^{2}+(a+b+c)(a b+b c)+c a\right)+a b c$. Comparing this with $x^{3}+(a+b+c) x^{2}+(a b+h c+c a) x+a b c=$ $(x+a)(x+b)(x+c)$, we seo that the factors must be $(a+b+c)+a,(a+b+c)+b,(a+b+c)+c$ or, $(2 a+b+c)(a+2 b+c)(a+b+2 c)$.
3. Adding we have $x+y+z=\mu+q+r$. (A)

Squaring (1), (2) and (3), and adding, no get
$x^{2}+y^{2}+z^{2}=p^{2}+a^{2}+r^{z}$ (B). Squaring (A) and comparing with $(B)$ we have $x y+y z+z x=p q+q r+r p$.
4. $\quad \frac{a x}{b-c}=\frac{b y}{c-a}=\frac{c z}{a-b}=\frac{a x+\frac{b y+c z}{0} \text {. }}{2}$
$\therefore a x+b y+c z=0 .-$ See Handdook, p. 123.
Again $\underset{a(b-c)}{a^{2} x}=\frac{b^{2} y}{b^{\prime}-(b)}=\frac{c^{2} x}{c(a-b)}=\frac{a^{2} x+b^{2} y+c^{2} z}{0}$.
$\therefore a^{2} x+b^{2} y+c^{2} x=\left\{a^{2} x \div a(b-c)\right\} \times 0=0$.
5. Invert and rationalise, and $\frac{1}{a}=-\frac{1}{2}(1+\sqrt{1}-3)$

Adding, we have.t $+\frac{1}{a}=-1$, cube by formula 6 ,
$\therefore a^{3}+\frac{1}{a^{3}}+3(a)\left(\frac{1}{a}\right)(-1)=(-1)^{3}=-1 ; \therefore a^{3}+\frac{1}{a^{3}}=2$.
-See Handbook, p. 11.
6. (a) Add each side separatoly, and
$(3 x-15) \div\left(x^{2}-5 x+4\right)=(3 x-15)+\left(x^{2}-5 x+6\right)$,
$\therefore 3 x-15=0$, or $x=5$, one solution.
Also $x^{2}-5 x+4=x^{2}-5 x+6$,
or $x-5+\frac{4}{x}=x-5+\frac{6}{x}$, i. e. $\frac{4}{x}=\frac{6}{x}$.
Now this can only be true when $x$ is endlessly increased, so that $\frac{4}{x}=0 \quad \frac{6}{x}$. Hence $x=\infty$ is the other solution.
(b) Lst product $=\left\{x\left(\frac{1}{a}+\frac{1}{b}\right)-1\right\}\left\{x\left(\frac{1}{a}+\frac{1}{b}\right)-1\right\}$

$$
=x^{2}\left(\frac{1}{a^{2}}-\frac{1}{b^{2}}\right)+\frac{2 x}{7}-1, \quad \text { Hence by syminetry, }
$$

2nd ". $=x^{2}\left(\frac{1}{b^{2}}-\frac{1}{c^{2}}\right)+\frac{2 x}{c}-1$
3rd " $=x^{2}\left(\frac{1}{c^{2}}-\frac{1}{a^{2}}\right)+\frac{2 x}{a^{2}}$
Sum $\quad=2 x\left(\frac{1}{a}+\frac{1}{b}+\frac{1}{c}\right)-3=1$
$\therefore \quad x=2 \div\left(\frac{1}{a}+\frac{1}{b}+\frac{1}{c}\right)=2 a b c+(a b+b c+c i)$.
-Sco Handbook, Chap. II., Sgmmetry.
(c) $2 x^{2}-2 x, 1=x-2$, or $-x+2$.
$\therefore \quad 2 x^{3}-3 x+3=0$; or $2 x^{2}-x-1=0 \quad \therefore x=8 c c$.
7. From (2) $x-y= \pm 2 \quad \therefore x=y \pm 2, \quad \therefore$ from (1)
$(y \pm 2)^{2}-y^{2}=(y \pm 2) y+1 ;$
or $y^{2} \pm 4 y+4-y^{2}=y^{2} \pm 2 y+i$, i. e. $y^{2} \mp 2 y-3=0$
$y= \pm 3, \pm 1, x= \pm 5, \pm 3$.
8. Let $x=$ No. and $y=$ price each $i x y=$ amocint spent,
and $(x+5)(y-1)=a y=(x-3)(y+1), \quad \therefore x=4, y=15, x y=60 \mathrm{c}$.
9. L $\mathrm{t} x=$ No. and $a$ and $b$ the parts.
$\therefore x=a+b$; and $a^{2}+b=b^{2}+a$, i. e. $.^{2}-b^{2}=a-b$;
or $(a+b)(a-b)=a-b \quad \therefore a-b=0$, or $a=b$ ono solution.
Also $a+b=1=x$, another solution. The first solution requires the parts to be equal and dues not apply to the problem. - Ass. 1.

Teachers, read our special offer. The Jour, nal will only cost you 25 cents for a year.

## ©orrespondence

## To the Editor of Tire Canada School Journal.

Sir, - Noxt to "less noise" and "stop that" by the irvitatod teacher. and "please ma'am, may I leave my seat," by the juvenile mortals, thero is no cry so often heard, no complaint so pathetically uttered in the primary achool as "I have no pencil," or an answer not unfrequently given to an inquiry mado concerning that necessary article, "I ain't got none." How shall I remedy the evii, is the problem that vexes me. Has it been solved by elder members of the fraternity? If so, I trust some knowledge on the subject will be imparted through theculumns of the Joursal-our mutual friond, who seoms never weary of helping us.
It was the first cry that greoted my entrance to the profession, and a bright idea struck me, which I forthwith put into action. The next morning, as I entered my school domain, armed with a dozen slate pencils, "Surely," thought I , " these broken each into four pieces will begin a bank to which one can resort in case of an emergency." Accordingly, these with all that could bo found in possession of the juveniles, wore placed in an empty chalk box, and deposited on the teacher's desk, there to tee kept when not in use. But in a remarkably short time they all came back (?) missing, and pencils were again in demand. Not foiled by this failure, my quick perception fell upon another plan. What I now proposed with the air of one who seeth not the end from the beginning, was that each pupil should come with a pencil, unmistakably his or her orm, and have that attached to its respective slate by a string long enough to admit of use. This, I thought a capital idea. To add to my composure, my charges seemed pleased too with the new. plan, and on the morrow, nearly every desk was supplied as I had suggested. The next morning, mute astonishment met me with the following facts :-
"No. one's pencil, slate and string were missing ; No. two's pencil broken; No. three's string broken, and pencil gone; No. four's pencil massing, otc. 'Alas!' thought $I$, 'plans were made in vain.'".
I suggested no more ideas on the pencil question, and have aince been laboring to make the best of a bad bargain. Pencils are still wanted, and I am still in a dilemma how to supply the need.

Another question that at first caused me anxious thought but with which I have had better success, is tho "Drinking Question.'" Not to teach children to drink scientifically, or asthetically, but to quench their thirst at a proper time, and to suppress the desire "to go and do likowise,' which is naturally prompted by the act of one.
I hope ny letter is not wearying you, and I will show how I have made my plan serve a double purpose.

It would probably not be at all necessary, and perhaps not wise to adopt in a small-sized school. But take a primary department of 45 or 50 , between the ages of five and twelve, and me thinks it would require one with more pariznce than Job, and more meekness than Moses, to even hear (tusay nothing of satisfying) the cry, perhaps three times daily from each one, "Please may 1 have a drmk!" "Hawo tho panl carried around," advises one. This seems to me the worse evil of the two. It takes not only the time of the carrier, but that also of all thoso withn a square of two yards of him. And that time of the teacher is bettor employed by watching the proceedings, for with her, back turned, it affords an excollent opportunity for genune fun, especially when the dipper leaks, as is, in fact, genorally the case. I have stop by step perfected my method, which is on this wise :-Allow no asking for a drink. At the close of each class, while it still stands, pass a drink to each one who has a perfect lesson, or one that is comparatively (?
so. In this way every person that desorves it, has, in a short time, had the privilege of drinking, and no confusion has theroby beon occasioned.

## Acadian School Ma'am.

Orangeville, Ont., Sept. Ist, 1884.
Messrs. W. J. Gage d Co., Toronto, Ont.
Dear Sme, -I am studying algebra and have before..me your 8th Canadian Copẏright Edition, new revised, of Hamblin Smith's Elementary Algebra, and in Examples cxvii., Problem 20, Pago 225 of this work I find

$$
\frac{x}{x-7}\left\{\sqrt[18]{\left.\left(3 p^{2} x^{3}-63 p^{2} x^{2}+441 p^{2} x-1020 p^{2}\right)\right\}}\right.
$$

given and un page 38 I find the answer to tho same tu be $x p^{7}\left(3 p^{2}\right)$. I can arrive at this answer only by substituting $y^{\prime \prime}\left(3 p^{2} x^{3}-63 p^{2} x^{2} \& c\right)$ for $\sqrt[18]{\left(3 p^{2} x^{3}-63 p^{2} x^{2} \text { ©c. }\right) \text { Thinking that this is an oversight on }}$ the part of the printer I have made bold to pen you this "epistlo," hoping to do you a favor, and if $I$ am in error I would be nuch pleased to be so informed, and hope to remain

Yours : espectfully, W. A. Ferglison.
[Note.-The question should read $\frac{x}{x-7}\left\{\sqrt{\gamma}\left(3 p^{2} x^{3}-\mathbb{E} c .\right)^{6}\right\}$-. The exponent 6 has been broken off the stercotypē plate. The answer is then cor-rect.-Mathematical Iditor.

## THE NEW PRUGRAMME.

## To the Editor of The Canada Suhool Journar.

Sir,-The new programme of studies for third and second class teachers will inevitably produce some serious changes in the general work of the High Schools. Evory one acquainted with the schools knows that this programme shapes the work of all schools outside the larger cities. That being so, it follows as a mattor of common sense :-

First, that no new programmo, involving serious changes in classification should come into force in less than two years after its publication. To spring a new programme upin the schools at the beginning of the school year, and to demand that its provisions be carried out within the year is an outrage. What interest was suffering so seriously that this curriculum must needs come into force at once?
Second, that the experience of the past should afford some sort of guidance. Every teacher knows that the average girl is not as good a mathematician as the average boy. Why then insist on forcing girls through the same mathematical curriculum as boys are compulled to take? Some years ago when Algebra was compulsory on girls, fifty per cent. at least failed regularly on the mathematical group. Why bring back that disastrous state of alfiairs?
Third, that the interests of pupils who do not intend to take the teachers' examinations should be carefully looked after. Nearly every girl wishes tu study French, a large proportion of the boys take Latin. The new programme makes so many things compulsory that it threaten's to banish the langunges from the schools. For the second elass examination there are sixteen compulsory subjects. In most schools there are not more than eight divisions of time in the day. Assuming that the lessons of Monday, Wednesday and Friday are on the same subjects, and likewise those of Tuesday and Thursday, it will be seen at once how injuripusly the interests of all who wish to study languages will be affected, especially in schools where the staff is smiall. The programme as it stands bears
on the face of it sygns of a complate surrenter to public school influences. Is at necessary to say that the High Schools are not in. tended primarily to tran teachers?

Fourth, that the High School masters should be fully consulted before a new programme is issued. It is an act of folly, if not worse to keep the masters in the dark until the programme is finally issued. Why wns not this curriculum placed bufore the High School section of the Ontario Teachers' Association? Therr opinion is surely worth something. The Mininter of Elucation professes to have great respect for the deliberately expressed conviction of the teachers. He has taken in the present case a most extraordinary means of showing it.
Fifth, that those who have entered upon a certain courso in good faith should be permitted to finish it, without aily serious change in therr work. What justice is these $m$ whtholding the language bonus from those who intend to try the thard class exammation? Why should these girls who have taken up sume subject instead of Algebra not be allowed to finish as they began? It is a peece of cruelty to keep them at schoul two years more fur this reasunalune. It is quite certain that many :xill fall to get up the d'gebra withn the time, who would pass well un the upthonal suliject.

> J. M. Husten.

## Sprcial Alticles.

GRADCATE THE BOYS.
by frank w. gove.
We speak, now, of the boys who are enrolled as regular pupils in the schools of Illinois, until they reach the grammar grade, and then part company with school forever. Whosefault is it, and how shall we remedy the evil? Though the teacher may not be responsible this wholesale desertion by the luys, it lies witha has province to check the anfortunate stampede from school life,-unfortunate to the boys, because they are too young to realize their error, and unfortunate to the State, because the boys of to-day will rulo the nation to-morrow. We shall not discuss the courses of study pursued throughout our schoo!s at this time, for we think that tho small. per cent. of boys in the graduating classes is not caused by the particular line of work prescribed. In the main, the courses of study are what is necded, for no amount of "tinkering" so far as our observations go, has brought the millenium in attendance, that is so anxiously desired. There is an occasional cry for the practical, among those who think we ought to make the tradesman at the ex. pense of mental training. But this class is in a small minority, and can never affect our schools to any great extent.

Poverty is often presented as an exruse for absence, but it is used to shield too many who might, with earnest effort and a due amount of grit, work their way through schoul to the glorious end. In some cases it is absolutely neccessary for the boy to leave the school room to support himself and mother but the fact is that he more often leaves school to engage in business that he thinks will bring him immediate return, and trusis to chanco for the future. With no stock in trade but a beardless chin, he grasps for a fortune years before he can rote, and, too young to manage any business, drifts about the world. Perhaps he succeeds. Many boys do; what then? Enjoy himself in his ignorance! The world has no charms for him, save the acquisition of wealth, and he has no pleasure in life, except from without. He possesses noelements within his nature by which he has power to bo happy, such as he might bave met with a well trained anu cultured mind. But perhaps he may not have prospered, and at the ago of trenty-fire he find
himself with no mure than when he started, and worst of all, with only the tirst clements of an cducation. Tuo late, he has cume to realize that an education alone is enduring. The majurity of mon du nut disagree on this question, but buys aro buys, and by the hundred they are falling out of the ranks of school avory year, jus for an experiment. Isn't it time that mature juilgment should come to the rescue, and with the support of the educated mon and women of thas age, call a halt in these rash decisions of early youth, and insist on boys remaning in school ling enough, at least, to complete the courso of the public graded school? If this evil is cheched at all, it must bo accomplished by a united effort of tenchers and parents. Strike at the root of the evil and boldly assert and maintain by argument the solid fact, that boys must be educated if they expect to heep apace with our fast progressing cividiation. Examples of ideal Americans, whose lives aro brought so prominently before our nation ns to da familiar to us all, are not wanting. The fact that an vecasional inventor, who had little school drill, has risen to the pinnacle of fame, is indeed poor incentwe for a buy of twulve or fifteen years of age to leave his school work, one, two, or three years before he has completed his regular coursa Fifty years ago, yes tiventy-fivo years ado, no sucin advantages were afficded for school discipline ns overy boy now has, and if he hopes to compete with his associates, he should be taught now that his work must be done to the end. Just so sure as our American boys fail to prepare themselves for statesmen and scholars, just so sure will our laws be framed and exceuted by foreigners of higher educntional ability and more thorough mental discipline. The boy who can mako his mark without school drill is just the boy who ought to remain in school until the very last, equipping himself most generously for the active duties of life. America has great need of such men. But it is not a question what we think. The boy must be reached, and his action governed, or, at least, tempered by the influence of his seniors. In addition to the first principles of the common branches, he must bo taught that hard work and persistent effort are the only means by which he can accomplish any work honorahly; that a thorough mental training will alone fit him for the duties of man in the noxt gencration or ndmit him to the best circles of society; that an American is not born grent, but with full and untrammelled liberty to become so, if he will profit by his adsantages; that worth not chance, makes the man, and last, that money is a means, not an end. The right sort of teachers, with their shoulders to tho wheel, can soon persuade the boys of to day, that aside from the in ward satisfaction of a good common school education, the advantages are all in favor of securng it simply on financial grounds. And this must be done, for the boys seem determined to leave school and we can expect nothing better until they are persuaded that their judgment is in error.

The truth is that the boy who carries a diplome with tiin, certifying his honorable completion of the regular course in the public schools, kears also thi, evidence that he has pluck, perseverance, and ability, -especially is this u ue of a public school diploma which represents the honest effort of many years, and hence the importance to every boy of securing it. The time is alrendy at hand when such boys are at a premium. The average boy of to-day brings no certificato with him, except that he lacks moml character and moral courage to remain in schoul the proper time, and upon this showing, seeks employment in the crowded avenucs of trade. The signs of che times betoken a demand for more thorough men, and no man can be an expert specialist, until ho has first mastered such a general education, at least, as is ombraced in our public schools.

Wo remarked at the beginnirg that teachers, perhaps, wero nut at fault, but the people naturally look to the teachors to make
nocessary rofornos in schoul wurk, nad upun the tonchers this task will fall. If parents are nut yot aw.oke to thin inp orhace of oducating tho buys as well as the girls, wake thom enp, and wo miy yot seo as many buys as girls graduatad from uar public schouls-Illinois School Journal.

## SECURE TRAINED TEACHERS.

## by menty ward beecher.

What if a sailor at the ond of a voyage untaught ahould say : "I cannot get snother borth for six montha, and I think I will practice medicine." You woulda't put a dog in his hads unloss it was for exacutaon. What if a manthould say: "I hope for an office and I will practice law until I get one." Ho never studied it, and isn't going to stady it, but he is going to prartice it. Who would put is picce of proparty or anythang he ${ }^{\text {land }}$ an interest in-who would put beis business in the hands of a mun that had not studied the law a good many years and gatherod oxperionce and accumulated wisdom which comos from study and exporienco?

You dumand these for property, for the body ; you demand experience in all these things, but for your children anything, only so that it is cheap! "If a mon will teash for $\$ 25$ a month and found, he is the man for us, unless there is a fellow who will toach for $\$ 20$. So you foist off upon the children the poorest and the mannest and tho most miserable teashers. Oi all parsimony there is none like that of cheap schools. Endow the schools liberally and give them tho best teachers that can bo obtained.

## Educational Bepatment.

## HINTS ON MANAGEMENT.

Rapriated from Syllabas of Leeturcs and reculations for the organization and manage ment of County Model Schools.

## Fiast Section of Tfry-Two Weeks.

I. Opening of School. -In opening the Model School the Principal should explain to the teachers the organization and classification of the Puble School with which it is connected; the necessity of observing carefully the mathods of teaching practised by himself and assistants, the points on which they are marked in the Training Register, the importance of careful yreparation for each day's work; the nevessity of regularity and punctuality, with such other hints in regard to their doportment towards each other, towards the teachers on the staff, and the pupils with whom they come in contact, as may be considered reguisite.
II. Teaching by Principal. - For the first two weeks of the session the Principal should teach, in the separate room provided for this purpose, thoss subjects which he intends the student teachers subsequently to begin with. This is preferable to an introductory courso of lectures. In teaching a class as above, the Principal should first lay clearly before the students the plan of the lesson, and illustrato this plan by his mothod of teaching. He should also require them to take notes of his mothods, and in the "criticism" hour these notes will furnish a basis for many practical hints. In this way-say ten lectures-combined with illustrativo teaching, may be given on the best mathod of teaching reading, arithmetic, spolling, and Geography to a primary class. During this time the student teachars should not bo raquired to visit the different departments of the Public Sthool for obsercalion, as no person can observe intelligently, or with profit, upill he has first some idea of the objoct to bo attained by the terches.
III. Teaching by' Stulents - The student teachors having observod and taken notes of the Princinal's mothods of teaching, aro now propared for actual teashing, as well as for moro oxtendod obsorvation olsewhere. It will be well, therefore, during the second two or three weeks of the session to employ them in teaching a class as above, in th separate room used for the purpose, the subjects proviously taught in their presence by the Principal.
IV. Observation. -Tho Principal should next propare the student teachers for taking observat: ons in the different roons set apart for training purposes. Thoy sliould have learned at least by this time that to lesson can bo well tanght unless both the matter of tho lesson und the method of presenting it to a class havo beon carefully considered.
The assistant teachers should explain, in presence of the student teachers, the purpose and plan of the lesson to bo taught, beforo they begin to teach. Attention should also be called to points in the progress of tho lesson, and the wor should be summarized at the close. The student teachers should not be mere visitors in a room, but should observe methods of teaching and uiscipline. They must therefore be taught to cibserve intelligently.
The following hints on "observation" are suggested:-

## 1. Matter.

(1) Whether suitable to the class; proper amount for ono lesson; whether exercising observation, conception, reason, or all of thesel
(2) Lesson-whether bearing on one point ; into what heads di. vided.
(3) Whother in a lesson involving a moral lesson, the proper: applications are made.

## 2. Method.

(1) Whether the purposc of a lesson was properly outlined at the beginning.
(2) Whether the connection between the lesson and previous work was shown when possible.
(3) Whether the error of telling too much was guarded against,
(4) Whether good illustrations were used, specimens distributed, and diagrams drawn.
(5) Whether appiopriate and deflnite questions were given.
(6) Whether the black board was used, and now terms written upon it.
(7) Whether errors in answering were thoroughly corrected and special attention given to pupils who were backward.
(8) Whether pupils were allowed sufficient time to think.
(9) Whother the attention of all the class was secured or of only a few fortcard pupils.
(10) Whether the lesson was properly summarized.

## s. The Class.

(1) Whether respectful, attentive, intorested, and, if so, iow secured.
(2) Whether pupils scemed weary, if so, why?
(3) Whether likely to cariy uway the lesson as a whole.

Each student should be required to enter his daily observations upon a sheet similar in form to that given below :-
Namo of assistant teacher
Date.
Subject of lesson
Notes by student teacher as follows :-

## Signature of Student.

Teuclecrs, let us liers from you. Male the. Journal interesting by woriting.for it.

Thesu "observatuns should be submated to the Principal for consederation durang the ${ }^{-}$criticism hour, who wall find ample material in the notes made, and in the discussion of the more theoretical part of the courso, such ch "analgement, disciphate, organ. ration, ete., to weupy all the thene at has dispersal.

## Serond Section of Temm-Thaee Wezks.

Obser vation and Class Teaching.-During this section of the term vite-half of each das should be spent by the students in the Mude School room:-

1. In ubservati chass teaching by the Paincupal.
2. In chass teachmy before the l'mainal and their fellow stu dents.
3. In criticisms. During the "criticism huur' the students should be required athidually to rend therr nutes with reasums, and aid should be encouraged to eapress their upinions fieely, the Principat directug the discus ion and chositg the criticisans.
Duritug the secuad half of the day the students should be engaged in observing teaching in the different romins and in tahing nutes. In order to secure uniformity and definteness, the following form is recommended:-
Report of lesson on
Taught by
The faults most worthy of nutice were:-
4. Your position
5. The plan of lesson

## 3. Your management

4. Your Language was.
for instance
5. In energy you
6. Your mode of questioning was.
for instance
hesides the abour, other niatsecs worthy of critcism should be reported.
Date.
Assistant Teacher.
The assistant teacher should make entries on the form during the progress of the lesson, and at the close hand it to the student teacher, who should hold himself ready to be criticised on the points noted, by the Principal, whenever necessary. The marks assigned by the assjstant teacher for the lesson should be given immediately after the lesson is concluded, and may be communicated to the student teacher, at the option of the Principal. All lessons should be assigned to the student teachers by the Principal, on consulta tion with the assistants in whose rooms the lessons are to be taught, and a record kepthof each lesson in the Training Register, so as fairly to afford equal practice in every subject in the Public School curriculum.

## Tman Section of Temi-Seven Weeks.

I. Teaching by students in the Dirisions. - The student teacher having already seen the Principal teach a number of subjects; having taught the subjects himself under the direction and criticism oi the Principal ; having obserced how classes are taught by the assistant teachers; and having some idea of the "matter" and " method" of a lesson, should now be able to take charce of a class in the subjects already illustrated. As preliminary to this step, the lesson to be taught should be asaigned the previous day, and thoroughly prepared. The assistant teacher, with whose class the student is entrusted, should leave him as much as possible to his own resources, and should take notes for subsequent entry in the Training IRegister. Assistant teachers should not bo reticent in reporting conticism, particularly if the mork has been badly done. The criticism should be thorcugh, definite, just and kind.
II. Number of Lessuns to be taught by Students. - It is desirak'o dhat aut less than tharty lessuas shall bo taught by each student. IBy the course suggested, at least sewen weeks will be available for teachang in the infferuat dusions. Tahing twonty stadents as the average number it it Mudel Sehoul, and aliuning one halfhour lesson per day to each student, wo have ten hours per day for teachmg by the student. Taking four divisions as the number used for Model Schoul purposes, with a seniur and junior section in each division, we have cight classes for ten hours of teaching, or an average of one hour and a quarter for each class duriug each day for seven weoks. When the number of students exceeds twenty, more than four divisions should be used if pussible. The students should be properly distributed among the different rooms, and whle one teaches, the others will observe and take notes. Lessons by students should not immediately follow each other. It is nlso strougly recommended that the studonts assigned to a division should remam a week in one room. liy this means the corrections made oy the assistant teachers will be nwere effective, the students and the puphls wall become better acquainted, there will be less change, and consequently the regular work of the division will be less disturbed.

## Fourtil Section of Term-One Week.

Reriew and Exammation.-Students should not be required to do any school work during this week, but should be allowed to revisw the work of the term.

## Lecture I.

## Characteristics of a Good Tcacher.

## I. Mentai Characteristics.

1. Professional spirit.-2. Sympathy.-3. Tact.-4. Earnest-uess.-5. Energy (not demonstrative).-6. Enthusiasm.---Hopefulness. -8. Patience.-9. Watchfulness.--10. Definiteness.-1i. Thoroughness.
II. Characteristicx of Manner.
2. Quietness.-2. Cheerfulness.-3. Calmness.-4. Self-posses-sion.-5. Gniformity of temper.-6. Politeness.-7. Kindness. III. Itabits.
3. Speaking in a low tone-2. Orderliness.-Punctuality.-4. Cleanliness.-i. Nicatness.

> Leature II.
> Primary Iicaling.
I. There are two steps in learning to read well :-
(a) Word recognition.
(b) Expressive reading.

## II. Methosis of teaching rcading.

1. Expressive readmg can only be taught to junior pupils by giving them good examples for imitation. It should be taught to senior pupils by giving them proper rules for pausing, emphasis, inflection. ctc.
2. Word recognition may be taught by either of the following methods:
(a) The alphabetic, or naming methed.
(b) The word, or "Look and Say" method. .
(c) The phonetic method.
(d) The phonic method.
3. The alphabetic method hias been generally discarded, becauso in most cases the names of the lotters in a word are in no sense sugiestive of the sound of the word itself. The only plea urged for its use is that it teaches spelling, by compelling pupils to spell words

## With sufficient encouragement from our friends among the teachers we are ready to issue the Journal as a weekly. Help.

before nammg thom. It dues this only to a hmoted extent, and in direct opposition to the recogmeed rule that spelling should be taught by readng, instead of trying to teach reading by spelling.
4. The phonetic method regures a now alphabet wath a letter to represent each sound in the language, and is therefore unpracticable with our present alphabet.
5. The word, or "look and say" method gives the name of the Whale word to the pupuls. The objections to ats use are :-
(a) It depents too much on the memory.
(b) It dues nut make the pupils du modependent work suon enough.
(c) The pup.as can make very little, if any, use of knowledge already gained an acyuiring mure.
(d) It uakes the pupil a receptive rather than a constructive agent.
(c) It dues not compel such scrutmazing inspection of words as to lead to currect spelling.
6. If the Enghah aiphatet had but one sound for each letter and only vie letter to represer:t each sound, the phome method alune wonld be the best plan for teachang chaldrent to recugnaze new rords. It gives the pupil the sound of the letters and trains him, first, to combine these sounds to form words; and secondly, to recognize new words by suunding the letters which form them.
7. To avoid the neental confusion of children, teachers should use a perfectly self-consistent alphabet, with only one sound for each letter, during the first five or six weeks of a child's experience in learning to read. I3y using the short sounds only of the vowels a very large number of words may be formed.
8. The Phonic, combined with the word method, will be found to lead to the best results in teaching word-recognition.
III. General Sugge tions.

1. Use slates and the black-board in teaching reading from the begimning.
2. Let the pupils urite script from the first.
3. Only teach the somids of letters as they are used. It is a great mistake to teach the alphabet as a whole, either by names or sounds, before putting these $t o$ a practical use.
4. Pupils should not be allowed to try to read a sentence until they know all the words it contains.
5. Simultaneous reading should only be allowed when the pupils are imitating the teacher, or when they are reciting something that has been committed to memory.
6. Bright pupils are certain to engross most of the teacher's attention so long as they are in the class. Dull pupils should get most teaching. In order to secure this result, when the new work of a lesson has been taught give review test words or sentences, and let those who read them first go to their seats and work there.
7. Baciward pupils rely on thoso more advanced to lead them, and it is of the utmost importance that they should be compelled to make independent efforts. It is therefore very much better to let the pupils whisper the new words or sentences to the teacher after he has written them on the black-board.
8. Pupils should be required to do a great deal of word-building. The following are illustrations oi an infinite variety of problems which may be assigned to them :-
(a) Whon they know the sounds of at, in, ing, on, etc., let them make as annyy new words as pussiblo by prefixing letters to them.
(b) Give them two consonants, one for the beginning and the other for the end of a series of trords, and let them form words by writing vowels between them.
(c) Give a single consonant, and let the pupils form as many words as they can, begiuning or endiug with it, and containing tho number of lotters fixed by the teacher.
(d) Write a certain number of letters on the black board and let the puails form as many wurds as possible by using only these letters.
(c) If the wurd methud be used it is a gond plan to sct the pupils tu culat at their seats how often certain words occur on a certain numbar of pages.
9. Lessons in reading to primary classes should be brief and lively. Two fifteen minute lessons are much better that one lasting half an hour.
10. Vary the method of cunducting tho lessons as much as possible.
11. In or fer to correct or prevent the habit of sounding " $q$ " and " the " sepatate from the words fulluwing them, let the pupils first use them in speaking of some object held by the teacher. He holds up a book, for instance, and the pupils say correctly and maturally "a buok," or "the buok." They will du so without iail Tnon these words should be written on the black-buard, and repeated by the class, the teacher pointing altermately to the object and to the "ritten wurds. It is also a good plan to jnin such words, as well as adjuncts, by bracketing them when they are written on the black-board.

## Syllabls of lectures and regulations for the organization and management of cocnty MODEL SCHOOLS.

A pproved by the Liculenant-Gorernor in Council, August 14th, 1884.

## Lecture VI.

## Spelling.

## 1. How Spelling is Lecorned.

1. Pupils learn to spell through the eye.
2. Correct spelling depends upon seeing with precision.
3. Spelling is learned through reading.
4. The ear may aid in spelling words spelled phonetically, but the eye alone is the best means of learning to spell. (Deaf mutes spell accurately.)
II. How Spelling is Taught.
5. As correct spelling depends on accurate seeing ; the great aim of the teacher should be to train the pupils to look definitely at all parts of the words.
6. Young pupils should copy largely from primers and from the blackboard.
7. Transcription is the best means for committing a spelling lesson to memory, as it compels the most carcful scrutinizing examination of the words.
8. Pupils should never see words incorrectly spelled.
III. Testing Sprelling Clases.
9. There are two methods, oral and written. (Although spelling as to bo larned through the cye, a knowledge of spelling may be shown orally.)
10. As spelling has to be used practically by writing words, it is undoubtedly best to test spelling classes by making them writo the lessons assigned.
11. Writing a word impresses its form much more than spelling it orally.

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## IV. Examining Spelling Iessons.

1. In review lessons and in small classes the teachers should correct the lessons.
2. Puphls maty exchange slates, and mark the nurds wrongly spelled, the teacher spelling the words slowly.
3. Pupils may retain their own slates, and the teacher may call on different pupils to spell the words orally. Those who agree with the spelling given must indicate this by raising their hands before the teacher decides as to its correctness.
4. Slates may be exchanged and the corrections made as in No. 3.
j. While the teacher writes the correct spelling on the black-
board, each pupil may correct his oun work, and shates or books will then be exchanged for revision only.
Noorn- In all cases when slates are exchangell the pupil owning the slate should have the right to appeal arainst the marking done by he nequhwur.
V. Correctiuy Eirrors.
5. Each pupil should write the words he misses five times to impress their correct forms on his memory.
6. It is better that he should write these words once a day for five days than five times on the same day.
7. He should keep a list of his errors at the end of his dictation book, and copy it occasionally.
8. From these lists the teacher should prepare review lessons.

## FI. General Suggestions.

1. The teacher should articulate clearly and pronounce correctly when giving words for syelling.
2. Only one trial should be allored in oral spelling.
3. In oral spelling the divisions into syllables should be marked by a slight pause.
4. Spelling should be taught to a considerable catent by meaus of composition, in order to give pupils practice in spelling their own rocabularies.

## Lecture: X.

## History.

I. Aim in Teaching History.

1. To show the nature and yalue of historical knowledge.
2. To guide pupils in finding its treasures.
II. Method of Teaching History.
3. Topical better than chronolugical.
4. Classify erents in comnection with the great departments of national life, instead of associating them merely with the reigas of monarchs.
5. Topics : Dr. Arnuld suggests, "race, language, institutions and religion." The history of most countries mas be subdivided into (a) wars, civil and forcign ; (b) the constitution ; (c) the church ; (d) progress of the people, commercially, socially, educationally; (e) literature; ( $f$ ) notable people.

## III. Plan of Teaching Mistory.

1. In one lesson give a general sketch of the whole history to be taught, and divide it into its great development periods, fixing the date of the commencement of each period.
2. Teach the history of each period, beginning with the first.

- 3. Teach independently the events connected with each topic.

4. Sketch the history connected with each topic successively through all the periods, after having taught each period independently.
$\bar{j}$. Show the advantages of this plan (a) in giving connected ideas regarding the progress made in each department of national life, i) in fachlitating the remembrance of historical facts in their relation to their effects; and (c) in affording natural and incidental reviers of the histury already taught.
IV. Training Iupils to Study History.
5. This is the most important of the teacher's auties in dealin ${ }^{8}$ wi th this sulject. History should be learned chiefly aftor school life has ended.
6. Aesigning lessuns wisely is the mans for training to study.
7. Do not assign answers (notes) to be committed to momory.
8. Assign questioms, and let pupils prepare answers by reading their historics.
9. All questions should not relate merely to isolated facts or dates.
10. They should compel a comparison of facts and exercise the pupils' judument.
11. A good outline or plan of the lesson is better than questions for advanced classes.
V. General Suggestions.
12. Chronology is not history.
13. Epoch men and women should receive a large share of attention.
14. Striking scenes and great events should be vividly pictured to awaken interest.
15. Pupils should rrite historical abstracts and biographical sketches for compositions.

## Examinationt Qutstions.

LINDSAY PUBLIC SCHOOLS.-PROMOTION EXAMINATIONS, JUNE 1884.

## LITERATURE.

thind class JUNior.
Readers may be used.
1.-Page 13, Lines 7 to 26.
(a) Explain : camals, autumn, solitary, lazy, perceived, herbage, perceptible, distinctly, injunction, mavine, regain, beaclı. (b) Why could he not distimuish between the blue and the green'?
(c) What was the father's injunction?
2. - Page 70.71, Canadian Buat Song.
(i) Give the ncaning of:-tolls, chime, rapids, unfurl, surges.
(b) When would the woods look dim?
(c) What is the difference between "him" and "hymn"?
(d) Explain, "the daylight's past."
(e) Who was Thomas Muore 3

## GRAMMAR.

thinid class Junior.

1.     - Give the Part of Speech and relation of the rords printed in italics: The first forcuoon was tle longest $I$ erer spent.
2.     - What is the difference between a Proper and a Common Noun 3
3. -What is a Verb 3 a Pronoun? an Adverb?
4.-Correct : All the bugs at school likes to play sometimes. Is the boys playing right?

- We ain't soing to school to-morror.

He don't know nothing.
Many men grows older but not better.

## GEOGRAPHY.

tanm class Jonior

1.     - How could you tell the cardinal points in the day-time?
2. Name all the townships of the County of Victoria.
3.-In what townships aro Omemee, Waodville, Fenelon Falls, Bobcaygeon and Kinmount?
4.-Name the southern point of Europe, Asia, Africa, South America and Australia.
5.-IVhat and where are Florida, Biscay, Orange, Hoaug-ho, Bon.

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## COMPOSTTION.

thind class Junion.

1. -Tell what you linow about any game you play.
2.     - Mahe sentences each containing one of the following words: their, seen, were, Canadian, too.
3.-Correct : the queen of england she lixes in london. Was you going there" John dont know his lessons. He aint here jot.

## ARITHMETIC.

THIRD CLASS JUNIOK.
1.-Divide 24689753 by 987.
2.-Wite in Roman Notaticin 49, 194, 1884
3.-A lady having 312 dullars, paid for a bonnet 20 dollars, for a shawl 7 j dollars, for a silk dress 97 dollars, and for a fur cuat 83 dollars: how much had she remaining?
4.-Add together the following quantities: $\$ 729.43, \$ 16.70$, \$976.81, \$0987.17, §429.00 and \$120.19.
5. -In 7 weeks, 6 days, 23 hours, 59 minutes, how many seconds?
6. - Multiply T4620983 by 9876.
7.- Writo down in figures, seventy millions, sixty theusand, and Gfty-five.
8. - Find the cost of the following goods :

3 lbs . of Tea at 65 cents per 1 b .
$\begin{array}{lll}4 & \text { " } & \text { Raisins at } 12 \\ \text { 12 } & \text { " } & \text { Rico at } 5 \\ \text { ". } & \end{array}$
13 " Ham at 16 " 6

## ITERATORE.

## thind clags intermediate.

Readers may be used.
1.-Page 165.
(a) What is meant by :-firmament, spacious, ethereal, unwearied. publishes, shades, utter.
(b) Why is "Creation" written with a capital C?
(c) Ezplain 1 "Their great Original."
$\frac{2}{3}$ "spangled hearen."
3 "the erening shades."
2.-Page 121, Lines 13-26. (a) Give meaning of "elation," "glided," "adopt," " tiptoe, intelligence."
(b) Who were the strangers?

## GRammar.

## timbd class intermemate.

1.-Divide into subject and predicato ;

A lion cub, of rulgar mind,
Avoided all the lion kind.
2.-Parse; And now tho lizard began dragging the body of the spider across the grass.
3. Name the ways in which nouns form their plural
4. - Compare : white, grey, sunny, honorable, sad.
b.-Diride into syllables, mark accented syllable, and write out the silent letters in: miraculous, shouldermg, desperately, slaughtered, miniature.
G.-Correct : The prince of wales was very sick in london, but recovered on tuesdary the seventh of july.

Gcography or history are pleasant to study.
Neinher Henry or Mary study very long.

## GEOGRAPHY.

## third class intermaniate.

1.-Drat a map showing the counties on Lakes Erio and Huron, and their county towns.
2.-Define archipelago, tributary, peninsula, gulf, sound.
3.- Locate the cities of Ontario.
4.-Name in order the rivers flowing into Lakes Huron and - Ontario.
5.-Locite Adriatic, Aral, Bello Isle, Cattegat, Dardanelles, Euphrates. Everest, Java, Mintapan, Nile.

COMPOSITION.

## thimd class interuediate.

1.- Write a note inviting a friend to dine with you.
2.-Write sentences containing : relatire, at a venture muzze, nuscle.
3.-Change the follawing sentences to the interrogativo: John ment to the woods. The ground squirrel is quite numerous now. I threw him back with sume violence.
4.-Correct: Yesterday was wensday the forth of febuary. Is thero any luys lace? Many trees was cut down.

## ARITHMETIC.

third class intermediate.

1.     - Multiply 749 lbs ., 10 oz., avoirdupois, by 72.
2.-Keduce 179 lls ., $3 \mathrm{oz} ., 3 \mathrm{dr}$., 1 scr., 14 grs , to grains.
2.     - IReduce 54002702 square inches to acres, roods, icc.
3.     - Bow many times will a carriage wheel turn in going from Toronto to Hamilton, a distance of 88 miles, the circumforence of the wheel being 14 ft ., 11 inches?
$\overline{0}$. - Find the cost of 73429 lbs , of oats at 30 cents a bushel.
4.     - Multiply 123 bus., 1 pk., 1 gal., 1 qt., 1 pt., by Gı0.
7.-Divido 422 miles, 4 fur., 38 rods, by 37
8.-Find the cost of

17 yards Cloth at $\$ 1.40$ a yard.

| 18 | $"$ | " | 1.75 | $"$ |
| :--- | :--- | :--- | :--- | :--- |
| 19 | $"$ | $"$ | 2.20 | $"$ |
| 20 | $"$ | $"$ | 1.65 | $"$ |

## LITERATURE.

focrty class jumion.
Readers may be used.
1.-Page 37, Stanzas 1, 2, 3, 4, 5, 6 .
(a) Give meaning of :-fleet of ice; corsair; blast; glistened; pennons; crystal ; scawird he bure; leaden shadows ; streanlets; main.
(b) Explain:-"The cast wind was his breath;" "Should Sir Humplarey see the light."
(c) Why have "Death" and "Book" capital letters?
(d) Where is Campobello? Why was Sir H. Gilbert?
(e) Write what you krow about Longiellow.
2.-Page 69, Lines 17 to 41 inclusive.
(a) Explain:-shrubby, pendulous, tortuous, prominent, tendril, drachm, scruple.
3.-Distinguish between :-color and collar, hold and old, minut6 and min'ute, prepare and per pair, mangled and mangold.

## GRAMMAR.

fourti class jusior.
1.-(a) Analyze: "Our friend. the traveller, gave a sixpence for the little plant which he had brought up from the time of his first receiving it."
(b) Parse: our, friend, triveller, gare, which, had, brought, from, receiring, it.
2.-Name four classes of adjectives not compared, and give examples of cach.
3.-Put "a" or "an" before, hour, honest, honorable, humming, hotel, history, horse, historical, holy, hemisphere.
4.-Write the past tense and past particle of throw, forsake, strive, stride, write, sce, fly, slay.
5.-Write the lst person, singular, present perfect tense, passivo voice of know, ride, smitc, take.
6.-Correct and give reasons:-
(a) I will be drowned and nobody shall save me.
(b) It is more than a year since I havo regularly went to school.
(c) It was him that I saw chasing the cow.
(d) Them is the kind of apples I like.
(c) George is the tallest of the troo boys.

GEOGRAPHY.
yovetir class jusior.

1. -Name the Prorinces of Canada and locate the capitals.
2.     - Name tho most important productions of British Columbia and Nova Sculia.
3.-In a coasting voyage from Quebec to Halifax through what maters would you sail; and what ishands and capes would you pass?
4.-Defino watershed, delta, arctic-circle, tide.
5.- I_ocate Amherstbungh, Calas, Elbi, Elbe. Hungarg, Odessa, Palornuo, Rline, Timbuctoo, Weser.
3.     - Draw a map of the Mudlamel Ralway showmg Belleville, Blackwater, Cuboconk, Haliburton, Lakefiold, Ludsay, Larnoville, Manilla, Madoc, Midhand, Millbrook, North Hastings, Omemee, Orilha, Poterborough, Port Hope, Stuativille,
Toronto, Whitby:

## HISTORY.

## foumin class junior.

1. -Write notes on any four of the following: Bede, Canute, (Cunt), Grecy, Montfort, Joan of Arc.
2. -In whose reign was the title of Prince of Wales created, and under what crrcumstances?
3.     - How came Henry II to be king of England?
4.     - Name the swereigns of Eughand from Henry III to Houry VI, gue date of accession, and relation of each todis predecessor.
5.-What Enghsh suvereugs tried to comquer France? What reason did each give for su doing? How did each succeed.

COMPOSITION.
FOLHTH Class Jtwioh.
1.-Change into complex sentences :
(a) The country was covored with snow, and he could not find his way.
(b) The little boy hurt his finger and went home.
2. - Write out in proper furm a nute fur $\$ 10$ due in 30 days frum date.
3.-Correct: (a) John dont write bad
(b) I hate those kind of people.
(c) The dinner smells pleasantly.
(d) What sort of a time had you?
(e) I dunt feel like going for a walk.
(f) You become that hat well.
4. - Write a letter to a friend asking him to visit you during the Central Exhibition.

## ARITHMETIC.

## fogrth class jumor.

1.     - Bnught 0 if arrea, 3 ronis, 17 perches of land, for which $I$ pay S77(34: what did I pay for it per perch?
2.-Divide $£ 1694,16 \mathrm{~s} .1 \frac{1}{2} d$, by $£ 9,19$. 111 d .
3.-Divide 123.4 by 000000066 .
2. What is the least commun multiple of $8,10,18,27,36,44$ and 396 ?
3. -Find the value of 1234625 of 2 weeks and 2 days.
4. A room is 34 ft . long, and 21 ft wide. Find the cost of carpet 27 inches wide at $\$ 1.75$ a yard.
5.     - A pile of woud is 50 ft long. 4 ft . wide, and 5 ft . 4 inches high. Find the cost at $\$ 2.75$ a cord.
6. -Find the cost of 96 elbs. of Butter at $20 . \frac{1}{2}$ cents per 1 b .

| 403 | " | Ham | at 175 |  |
| :---: | :---: | :---: | :---: | :---: |
| 36 | " | Lard | at 15.5 | ، |
| 23. | ، | Cheeso | at 127 |  |

## LITERATCRE.

thimd class sexior.
Readers may be used.
1.-Page 238, Soldier's Dream.
(a) Write the me:ming of--truce, lowerd, reposing, pallet, thnce, desulite, auturna, traversed, oft, aloft.
(b) Explain, "'sentinel-stars."
"our bugles sang truce."
"wolf-scaring fagot."
"in life's morming march."
"the sweet strain."
2.-Write what you know about Campbell.

## GRAMMAR.

third class intemmedite.

1. -Divide into subject and predicate:

A lion cub, of vulgar mind, Avonded all the hon hind.
2. Parse : And nuw the lizard bugan dragging the body of the spider across the grass.
3. -Name the ways m wheh nouns form tneir plural.
4.-Compare: white, grey, sunny, honorable sad.
5.- Divide unto syllables, mark necented syllable, and writo out the silent letters in: miraculous. shouldering, desperately, slaughtured, miniature.
6. - Correct: The prince of wales was very sick in london, but recovered on tuesday the seventh of july.

Geography or history are pleasame to study.
Neither Henry or Mary study very long.
GEOGRAPHY.
THIRD Class senior.
1.-Draw it map of the County of Victoria, showing all the Townships, Ratways, Lakes and Rivers.
2.-Define equator, river, lake, isthunus and shore.
3. - (iive the boundaries of New Brunswick.
4. - Name the rivers of Quebee flowing into the St. Lawrence, and a town at the moath of each.
5.- What and whore are Bat-el-mandeb, Ceylon, Congo, Fimland, Lema, Marmora, Naze, Okhotsk, Sardinia, Tonquan?
6. - What rivers drain the folluwing lakes : Champlain, Geneva, Scugog, St. John, Wimipeg?

HISTORY.
THIRD CLASS SENIOR.

1.     - Why do wo keep July 1st as a holiday ?
2.- When was the battle of Queenston Herghts fought? Who were the parties fighting, and who were the leaders? What were the results? In what war did it occur, and what was the cause of that war?
3.-From whom did the English obtain Canada? How? And when?
2.     - Name some Indian chief who tried to win Canada from the Euglish.
3. -When was Camada discovored, and by whom?

## COMPOSITION.

## third class semion.

1.-Write a description of "The Cow."
2.- Write wut in proper fur... a receipt fur rent, $\$ 96.50$, paid tu-day.
3.-Combine into one sentence :

Their hair is matted.
Their hair 's stiffened.
It is stiffened with the fat of swine.
It is stiffened with the fat of other animals.
The fat is mixed with powders.
The porter are of various colors.
4. -Write senténces containing:
(a) that he come so late.
(b) where he intended to make a home.

## ARITHMETIC.

## third class senior.

1.-Reduce 7964327 square inches to acres, ineds, etc.
2. - Multiply 6 weeks, 4 days. 3 hours, 17 minutes by 429.
$3-1$ bought four fields; in the first there were 6 acres, 3 roods, 12 perches; in the second 7 acres, 2 roods; in the third, 9 acres and 13 perches; in the fourth, 5 acres, 2 roods, 36 perches. How much in all?
4.-A silyersmith made 3 doz. spoons, weighing 5 lbs., 9 oz., 3 dwt.; a tea-pot weughung $3 \mathrm{lbs} ., 2$ oz., $16 \mathrm{dwt}$.16 grs ; tso $p^{\text {air }}$ of caudle-stacks weighing 4 lbs., 6 uz, 17 dwt. ; a dozen silver forks weighing $1 \mathrm{lb} ., 8 \mathrm{oz}$, $19 \mathrm{dwt}, 22 \mathrm{grs}$. What was the weight of all the articles?
5. -Multiply 47 miles, 6 fur., 17 rods, 4 yds., 2 ft 7 in . by 576.

5 .-Reduce 72 miles, 3 fur., 7 rods, 2 yds., 1 ft. 7 in., to inches.
7.-Frum May 1 ith, at 9 a. m., to September 19 th, at $3 \mathrm{p} . \mathrm{m}$., how many hours?
8. -Find the cost of

| 17 pairs Boots at $\$ 3.75$ per pair. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 19 | " | " | 2.65 |  |
| 21 | * | '6 | 4.10 |  |
| 23 | " | " | 2.85 |  |

Amy teacher semaling us the mame of a mew subscriber and \$1.25 can luave the Nehool Journal for a year and a copy of Ayre's
Verbalist (price of Verbalist is $\$ 1.00$. )

## Mractical 刃iparturnt.

## *THE IMPORTANCE OF MEIHOD IN EDUCATION.

It will depend upon the use of the means or the method employed by the teacher whether or not he can accomplish the work expected of him. There are two ways by which knowledgo is gained, one is finding the knowledge ready made, the other is through the excrtion of the mind itself. The method will determine two things-the character and amount of knowledge, and the character of the training acquired in coming into possession of the knowledge. Proper mental trammg always bring', two results-a consciousness of increased power and at the same time a consciousness of the possession of new knowledge. The ready made knowledge may be got from a book or be given to us by another. Whether the knowledge will bo of any real value to us will depend upon the mind's action in comnection with it. If the mind put forth no act the knowledge cannot be taken in-it is left out in the cold, to use a common expression-it does not grow, it has uc, root, it withers away. It is thas kmd of knowledge that can mever be found when wanted, or if perchance it may have reached that part of the brain called by physiologists senf .rum, which has the power of reproducing its impressions just as a parrot can, it can be reproduced at a given signal. The fact, or rule, or whatever it may be, is glibly repeated and passes for knor. fedge, but the pupnl can apply it to nothing except to some particular case with whoch it was previously associated. When some one else than his teacher questions him, he does not understand, does not know what is meant-the signal is not the same. He often hazards an answer which may be a correct one to another question but absurd to the one proposed, and as ludicrous as the scene which has been described between Frederick William the Great and a tall French grenadier who know only threo words of German. He was instructed to reply to the hing's three general questions on parade, "How old are you ?" "Three and twenty." "How long have you been in my service?" Three years. "Are jou satisf̣ed with your rationsand lodgingsi" "ButhyourMajesty. "The King, howovor, twok the very unusual course of invertang the first two questions and the grenadier of course made himself threo years old and twenty-three years in his majesty's service. The king, amazed at sưch answers, did not put the other question about the rations, but the inquiry, "Are you a fool or am I $?$ " "Buth your Majesty." Such is often the character of the knowledge we get ready-made, and the application we mike of it. No doubt eximples as ludicrous have been witnessed by some of yourselves. Let me give you one or two, bot for the purpose of maling sport, but of allustrating the character of knowledge got ready made without bringing the mind to bear upon it. "What is the Equatur ?" was a question asked a class in geography nut very lung ago. "A line perpendicular to atsolf and called the meridan." In anothor class the following questions were asked: "What is the difference between the noun 'book' and the book itself ?" " What is an abstract noun ?" "A collective noun ?" To which the followng answers were given: "There is no differonce." "An abstract noun has no particular calling." "A collectivo noun is what it wants to make it more complate." In another class the following answers wore given to the questions: "What is the circumference?" "Distancen round the midule of the outside." "Distance through tho middle." "What is the meaning of develop ?" "To swallow up." "Give an example." "God sent a whalo to develop Jonah." I do not say thero are many such cascs, I hopo thero are not, bit the existenco of any show that knowledge, howover accurately it may be given,
may be reproduced in a most absurd form, unless the mind is called into exerciso. It must not, however, bo assumed that when the knowledge is accurately reproduced it is therefore understood by the pupil or of service to him. A long series of questans may be answered correctly and not one of them bo understood. The verbal memory of childron is vory powerful. They can readily remember sounds without attaching any idea of them, and can readily reproduce them.

The teacher has, therefore, frequently to adopt the other method of socuring knowledge, viz.: through mental exertion. He has to train the pupil to do things for himself, to get his own ideas from things. A physical, mental, or moral act can be done only by performing it. Every one has to do those things which he would acquire the power of doing. You know yourselves that you could never acquire the power of readily solving arithmetical problems without performing the operations yourselves, nor acquire a dexterous movement of hand without performing the acts through which the power is acquired. Now look how mature does. She gives the child no laws, no rules, no principles, no formulas. She simplygives the material, the faculty, and the oceasion for its exercise. There is much repetition in her teaching, in order that the dificult may become, easy and use become second nature. She ducs not tell the child but prompts him to action and induces hirn to think what he is doing. She docs not explain to him the differ. ence between hard and soft, or between a hot stove and a cold one, but says, "feel them." Lay your facts, she says, side by side and compare them, find out where they are alike and unlike. Her business is the training of faculty and the development of power.

These two methods of acquiring knowledge may both be successful as respects the lnowledge, but their effects upon the mind are very different. When the mind's activity consists in merely comprehending the thuughts of uthers, the truths which have been discovered and explained, it becomes a receptacle, a working one, it is true, working the nourishment into its own substance, but preparing it only for taking in more and making progress. The method which presents the material to the pupil for observation and reflection. and simply stimulates and directs the mind to an orderly plan of study, trains him to form his own ideas of things, to put forth his own efforts in the acquisition of knowledge. I do not mean to put the ono method against the other, for both are necessary in our schools; pupils must have lessons assigned to learn from books, when they are sufficiently advanced to master them, but I do say that the one method is too generally followed to the exclusion of the other. The teacher in many instances becomes a mere hearer of lessons instead of a trainer.

There is a constantly increasing demand for results of greater commercial value from our school system; and the school must consider the question. If our boys had training in the elements that are common to all industial pursuits and our girls training in the principles of dumestic economy, all reasonable demands would be met without disturbing the primary aim of the school or increasing the number of subjeces in the course.
Such training should embrace industrial knowledge and manual dexterity. Industrial knowlecige consists in an acquaintance with industrial materials and processes. Industrial materials are of course the varioas materials used in the industries, consisting of substances from the nineral, vegetable or animal lingdom. Industrial processes are those operations by which raw materials are converted into forms for our use.
You have seen that we have in the course the subjects that form tho elements of industrial knowledge. Instruction is required in

[^1] School, Fredericton, N. B.
minerals, phants and animals, and their uses. With respect to the processos, a largo unimber relating to the most useful industries are described in uur Readers, and these lessuns are required to bo sup ${ }_{f}$ plemented by oral instruction. Industrinal drawing, the subject of Furm and of Gecmetry, so far as taught, all bear directly upon many industries.

That they shall result in industrial gain will depend upon the mode of teaching them. Let mo give jull a few practical hints in the form of some examples.
The sulject of Form, which is taught in the first two grades may bo made mainly colistructive. During the first year, after the pupil lias gained perceptions of the variaue furms brought unde his nutice, pruceed to culstruct them of such suitable matcrial as can be conveniently had. The ball, cube, cone and cylinder may be furmed of clean moist or mulding sand, or suitable clay. They should be made as accurately as a child can bo taught to make them, and considerable pains should be taken to givo him the necessary facility of manual movement. During the second year the material should be of a more resisting nature than sand, perhaps pastebuard. As a sample of an exercise, suppose he is required to construct a square whose side is threo inches, or any convenient length. Reguire him to place his ruler upon the picee of pasteboard and mark with his knife along the outer edge. This operation is not so easily done as one might suppose. The ruler has to be correctly applied and firmly held with the left hand, so that it cannot slip and produce a crooked line instead of a straight one. He should also be required to do it with the least amount of waste. He will have to be shown, in the first instance, how to move the ruler as far as pussible towards the elge, so that nono but the wasto parts may be marked off. When this is dono he proceeds to cut. His first attempts will be awkward and the line will bo imperfectly cut ; it will be rageed and probably uneven. Ho will require to be shown how to steady the pasteboard and how to hold the knife when he cuts. Let him test the accuracy by applying lis ruler to the cut. Let it be done again and again, if necessary, but not so often ns to discourage him. Let us suppose une side conpleted.
The second adjacent side is ruled off and completed in the same may. Let him now apply the carpenter's square to test the work (small carpenter's squares can bo had for the purpose). Ho wil not oniy leara the ase of this toul, but he will become practically acquanted with a right angle, and his cye will snon detect the slaghtest deviation from it. The two remaining sides will be con structed in a sunilar manner and the sinare completed. There will, no doubt, be many trials and repeated corrections before a fairly accurate square lans been made, but the pupil has made sub. stantial gain. He has learned to use a ruler and knife properly, and acquired sumo manual neatness and dexterity. Exercises may be proposed on the square, by means of which its geonetrical properties may be practically understood. They may be further led to find out that the diagonals of a square are not only nqual to each uther, but bisect each other-truths which they will never forset when taught in this way. If each furm is similarly dealt with, the drawiugs which the pupil makes in his suhsequent courso will be not only much better executed, but of far deeper inferest.
When he has entered upon his course in indusirial drawing, tho pupil should frequently cut out forms before drawing them, sometimes with scissors as well as with a knife. While studying the elements of geometrical drawing, such as bisecting lines, angles. erecting prrpendiculars, etc., he will acquire facility in using the compass. In drawing plans of the school house, play-grounds, etc., of given dimensions, he will becomo accurate in measuring and accurate in representing measurement.
Arrived at the study of formal geometry, the pupn should previous to drawing his figures on the blackboard for deraonstration
construct thom of pastobarard or pipar, etc., whenever practicable, and find vut the geometrical truths which he is to establish by domunstration. Industrial touls, whoso principles depend upon his geometrical truths, should bo oxplained.
In the teachurg of arithmetce how many oppurtantios are affiorded of giving a practical chametor to the work-by associatinu articles of commerce in the neighborhood with the questions.-requiring the puphas to frame bills of parcels for thomselves, and to make them vut accurately and neatly! The tables of weigh:s and measures should be determined by oxperimont and oach uroration gone through proporly, tho filliug of a gallon or qua.: from a pint measure, the fillugg of a pint buttle from a small phaial of so many ounces, the measuriug of length with a rulo or tape line, findiug by mensurement the content of the play ground, or some other portion of land, all having in viow manual desturity as well as practical knowledge.
Geography, and even history, mey be hgghly practical as well as powerfully educative. The great untural forces and products which underlie all industries- the mdustries of a country deponding on its products and forces-the merchange of theso-and the brotherhood of man, are fitted to awaken and keop alive an interest in industrial work and workers.
Every good citizen of an oulightened country respects the institutions under which he lives, ho moves amongst its peoplo, he is protected and governed by its laws. His training towards manhood lies through a knowledre and dischargo of his duties as a citizen as well as a workman. How much valuable histruction of a practical character may bo impartod, and with what interest it will be roceived, if, instead of loading tho pupil's memory with isolated facts little understood and appreciated becauss they begin and end in themselves, we group togathor furts that have a bearinit upon tho great epochs of our hietory of civil liberty.

A king's reign is not a division of history. Kings dio and dynasties, but the great forces move onwards. What are the moving forces? what are the ovents associated with such forces? Whatever divisions our next text broks may make it is by some such treatment as I have indicated that we can hope to make history influence character.
It is umecessary for me tu ald ono wrord respecting the inportance of a study of method and its principles. Tho whole of this address gues to show that neither the proper aim of the schoul nor the wants of suciety can be met unless the work is conducted upon sound principles of method. It is true that some teachers, and mure especially young teachers. are apt to pay more regard to the mechanical processes than to tho principles of method, and they camut of course reach satisfactory results; but no intelligent man would on this ground afirm that mothod tends only to give a mechanical character to teaching. If method is not fitted to lead to great and inportant results, why should the institutions of the nost enlightened countries take practical steps to give a knowledge of it 3 Two of the universities of Scotland, Edinburgh and Saint Androws, hare established chairs of education, and the London Cniversity has just announced that it will hold a yearly examination in the art, theory and history of education. Socrates, the Greek philosopher, regarded mothod as the first thing. Comenius, Incke, Rousseaut, Basedow (of whose work Goethe says, "such methuds nust promoto mental activity and give the young a fresher view of tho world,") Pestalozzi, Frobel-all insisted upon the importance of method, and Alexander Bain and Herbert Spencer, twic of tho deepest thinkers of our own .ay, tell us, that all modern bystems of instruction must be based upon natura's plan aud natuso's zinotioda.

## Stiscellang.

## A CAVALRY CHARGE.

The roll called, silence succeeded, and some men were detached from each company to bring the bread. In a few minutes the parties returned with the loaves in sacks and baskets. The distribution began at once. As the Republicans had made and had their soup on arriving, they buckled their loaves on their knapsacks.
"Now," cried the commandant, in a gleeful voice, "we are off."
He took up his trunk, threw it over his shoulder, and went out without saying as much as "Good day" or " Good night" to us.

We thought we had seen the last of them.
We heard the officers outside shout, "Forward! March!" The drums sounded, the cantinière cried "Gee up" to her mule, and the battalion began to move, when a terrible sort of clatter echoed through the village. It was a fire of musketry; now many together, now one by one.

The Republicans were just entering the street.
"Halt !" cried the commandant, standing up in his stirrups to see and hear.

Suddenly a soldier appeared at the end of the street, running with his musket over his shoulder.
"Commandant," he cried, out of breath, from a distance, "the Croats! The post is forced: they are here.

The commandant no sooner heard this than he galloped at full speed along the line, shouting-
"Form square!"
The officers, the drummers, and the cantinière closed up to the fountain, whilst the companies, sliding together like a pack of cards, in less than a minute formed a square three deep, the others in the middle : and alnost at the same time there arose a fearful din : the Croats came on, shaking the very earth. I think I see them now bursting into the street, their great red cluaks floating. out behind them like so many flags, their long straight swords ad vanced, and their heads so bent over their saddles, that their brown, bony faces and long yellow moustaches could scarcely be seen.

I had scarcely time to see and tremble, when the Croats reached the equare. At that instant I heard the commandant shout, "Fire !" A crash like thunder followed, and I could hear nothing more for the roaring in my ears. All the face of the square turned to the street had fired; the glass fell in shivers from our window, smoke and cartridge flakes eddied into our room, and the smell of powder tilled the air.

With bristling hair, I still looked on and saw the Croats on their big horses towering through the grey smoke, bounding, falling, starting up as though trying to climb over the square ; others from behind pressing on and yelling in savage tones "Forvertz! Forvertz!"
"Second rank, fire!" shouted the commandant over the ceaseless shouts and snorts of men and horses. He might have been speaking in our room, his voice was so calm.

Another thunderclap followed. As the plaster fell, as the tiles rattled down the roofs, as heaven and earth seemed to be coming together, Lisbeth, in the kitchen behind, uttered such piercing cries that they sounded over the tumult like a burst of catcalls.

File-firing succeeded the platoon fire. The muskets of the second rank rose, fired, and fell incessantly, whilst the first rank kneeling crossed bayonets, and the third rank loaded the muskets and passed them to the second.

The Croats circled round the square of infantry, striking with their long swords; sometimes a hat fell, sometimes a man. One of the Croats, running back his horse, leaped it over the three
ranks right into the square; but the Republican commandan rushed at him, and with a terrible thrust nailed him, so to speak, to the croup of his horse. I saw the Republican withdraw his sabre red to the hilt ; the sight made me turn cold all over. I was on the point of flying; but I had scarcely made a movement when the Croats turned and fled, leaving a great number of men and horses on the ground.

The horses tried to rise, and fell again. Five or six of the riders, caught under their horses, tried to disengage their legs; others all over blood dragged themselves along, raised their hands in deprecation, and cried in lamentable tone, "Pardône, Franȩose,' in fear of being slaughtered. Some, unable to endure their sufferings, begged to be put out of pain. The greater number remained motionless.

For the first time in my life I comprehended death : those men whom I had seen two minutes before, full of life and strength, furiously charging their enemies, with wolf-like bounds, lay there pell-mell, insensible as the stones of the street.

In the ranks of the Republicans there were vacant spaces too, bodies fallen on their faces, and some wounded men with brows and faces covered with blood. They bandaged each other's heads without leaving the ranks, their muskets grounded, and their comrades helping then to tighten the handkerchief and fix the hat over it.

The commandant, on horseback near the fountain, the point of his great plumed hat between his shoulders, and his sabre in his hand, closed up the ranks. The drummers stood near him, and a little further away, close to the trough, were the cantiniere and her cart. The bugles of the Cruats were heard sounding the retreat. They had halted at the corner of the street; one of their sentinels stopped there, behind the angle of the town hall. His horse's head could alone be seen. Some shots were still fired.
"Cease firing," cried the commandant.
Then all was silence, the distant bugle of the Croats being alone heard.

The cantiniere went through the ranks distributing brandy to the men, whilst seven or eight sturdy fellows filled their canteens at the fountain for the wounded, who implored water in lamentable voices.

I, leaning out of the window, looked down the empty street, asking myself if the red-cloaks would dare to return. The commandant gazed, too, in the same direction, speaking to a captain who stood by his horse, resting his hand on the saddle. All at once the captain crossed the square, passed through the ranks, and hastened into our house.

Innumerable shouts of "Hurrah! hurrah!" wild and sharp as the cries of ravens, filled the street from end to end, and almost drowned the blunt rush of galloping horses.

The Uhlans, for they were Uhlans this time, came on like the wind, their lances couched, the sheepskin dolmans floating out from their backs, their ears covered with their hairy caps, their eyes staring, their noses sunk in their moustaches, their great brasshandled pistols sticking in their belts. It was like a vision. I had only time to throw myself back, my blood curdling in my veins, and it was only when the firing recommenced that I seemed to awake as from a dream in a corner of our room opposite the broken window.

The air was obscured, and the square white with smoke. I could only see the commandant, motionless on his horse near the fountain; he might have been taken for a bronze statue seen in the bluish cloud, through which hundreds of red flames were flashing. The Uhlaus, like enormous grasshoppers leaping all round, darted out and recovered their lances, or fired their great pistols into the ranks four paces off.

## The square seemed to be giving way. Tt was true.

"Cluse tio muks! Huld tirm!" called the commandant wath a calm voice.
"Clusu the ranks: Close up!" repated the officers.
But the syuare give way, the fromt tace wats loblowed blio a bun, the censtre of at mearly reached the fonntan. Swift as lightning the bayonet guandmet the thrast of the lamees, but sumutmes the man sathe down. The Repulblicins hiad net tuno to relond ; they mo longer tirul, and the Chlatis stall cano on more buhlly m ever-increasang unuluers, survoundang the square with their wharlaner masses, and alrealy shonting theis anes of triunish, for they thought they hat conguered.

I thought the Remohicans were lust, when in the crisis of the action the commamdant rased his hat on the pennt of has sabre, and begrat to sing a sume that made ma flash cerep, and all the battalion towk it up like one man atid sang with ham.

Instantly the face of the syuare was reilressed, formag bath inte the street the masses of horsemen, crowded togother with their long lances, like the ears of a corn-tield.

This sumin scemed to render the Rejublicans furious : it was the must terrible spectacle I ever saw. I hase of ten thonsht sunce that men infuriated by battle are more ferocious than wild beasts.

But what was stall mure termble was that the rear ranhs of the Austrian column at the end of the street, seemy nuthing of what
 "Hurmali! hurrah!" su that tho from ranhs, gondeal by the bayonets of the Republicans, and unablo to retreat, struggled in inexpressible confusion, uttering cries of distress; their tall horses with bleeding noses, their manes stiffened and their eyes glaring, reared and lashed out frightfully with shrill neigis. I saw the unhappy Chlans, mad with terror, turn and strike their comrades with their lance-staves to force their way through, and scurry off like hates by the sade of the barns.

Dead uen and horses lay in heaps, from which blood trickled and fluwed down the gutter to the sewer.
"Cease firung ! cried the commandant for the second time that mornmg. "Load! !"

At that instant the church clock struck five. The condition of the village at that monent cammot be descmbed-houses riddled wath balls, shutters haming frum a hange. shattered windows, tuttermis chamuejs, the sticet strewn with lirohen tiles and brieks, the runed sheds, the heap, of dend men, and the overthrown horses, struggling and bleeding-it is not to be mandined.

The Repubheans, dmminshed by half, their great hats pushed back, waited with slouldered muskets and stern and terrible mien. Behind them, a few steps from our honse, the comnandant conferred with his officers. I heard him quite well-
"We have an Austrian army before us," he said abruptly, "and the question is to take whole skins ont of this. In an hour we shall have twenty or thirty thousand men on us: they'll surround the village fith infantry, and we shall be lost. I shall beat a retreat. Has anyone anychnge to suggest ?"

In less than ten manutes they had built a barrier across the street as high as the houses, with hay and straw above and below. The beat of the drums recalled those $w^{\prime}$ were working at it, and at once fire began to chmb from wisp to wisp to the top, sweepiner the nelghbormg ruofs with its red flame, and spreadmg its black smoke like an immense vault ovor tho village.

Loud cries arose in the distance, and musket shots rattled beyond it; but nothing was to be seen, and the commandant ordered the retreat.

Isaw the Republicans file off before our house, with firm, slow - steps, their eyes sparkling, their bayonets red, their hands black, their cheeks hallow. Two drunmers marched wathout beatinge their drums; the hitte fellow I had seen sleepnice th our barn was there, his drum was on his shoulders, and his back was bent: big tears were falling down his plump cheeks blachened with powder smoke. His comrade was saying to hin, "Come, little Jean, come, be brave." He did nut seem to hear him. Horatius Cuceles had disappeared, and tho cantinière also. I followed the regiment with my eyes as it turned the corner of the street.
-Madume Theresc, by Emekmasn and Cimatrian.

> Amy teacher semdiauy us the name of a newe subseriber and \$1.9.) rent hene the sehool Journat for oure year and a copy of Ayre's Orthoplist (price of Ortheppist is $\$ 1.00$.)

## flotes ard fltus.

## ONTARIO.

It the last comsention of Wellitygtun teachers, the N. W. Asse ciation eliose the folluwing "flicers fur the unsuing year .-President, P. McEachurn , 1st Vico l'resident. A. M. Shiolds, B. A.; 2ad Vicu Preailent, P. Harpur ; 3rd Vice I'residunt, Miss McGeuhan: Secretary, A. Spuaco Treasurer, Miss A. Deylu, Managromunt Cummittec, Messrs. W. MeEachorn, Curbett, Phillips, Wisuman ind Liptom. Tho S. W. Association retaned thu old staff.

When discussing the superannumation question, Mr. Russ asked the teachers of Wellington if ladies should be made to contribute. The teachers, with cheers, answered "No."
In March last a unifurm promution uxamination was held in Wollington county. In the North Riding alone, about two hundred eindidates passed. All the arrangomonts were admirable and the result gave general satisfaction.

The following letter just received, speaks for itself. It is gratifying tu find that the Jounsai. is on the right track. The publishers are desirous to make the paper a necessity to every live teacher in Canada.

We propess a big " bill of fare" for the coming year and an effort will be made to cirry out the programme. The suceess atteudent upun our efforts in the past and tho appreciation we havo received at the hands of the teaching profession, encourages us to make still further efforts.

At the departmental examination last July the Blenheim Public School has a very ereditable record. Out of fourteen candidates sent to the examination two obtained second class grade $A$, two second class arado B, six third class and one Intermediate. The school has been very prosperous under its presunt principal, Mr. James Bruce. Last y? . six of tho pupils wrote and all passed.

Hon. G. W. Ross has accepted the invitaton of the Frontenac County Teachers' Association, and will attend the fall institute on the 16 th and 1 th September. He makes two addresses on educational subjects, one to teachers, and one to the general public.Napance Standard.

Drull and calisthenics are now on the compulsory list for High Scho ils. Mn John Bohannan has been appointed drill instructor fur the Sarnia High School, and this week ho began his duties with a class formed of the boys attending the schools. - Sarmia Obsercer.
"Some time ago you made mention in the Jounsis of a weekly edition, and wished an expression of opinion. I wuld go in for it heart and hand. Surely thero aro enough of us to support a live weekly. - Jos. C. Mansel."

Honour Deseiven. - Mr. Senth, the well-known head master of St. Cathitrines Collegiate Institute, having been appointed Inspector of High Schools, has resigned the position in which lhe las made so higha reputation for lunself. His place has been filled by John tlenderson, M.A., who his long held the position of second master. Mr. Henderson is :n Oxford boy, son of Mr. Honderson, postmaster at Chesterfield. He thoroughly deserves the position helas won. The St. Catharines, school is one of the best educational institutions in the province. Not a littlo of its, extraordinary success is due to the ability and industry of Mr. Henderson. We congratulate him and the institution at the head of which lie has been placed. - Woodstock Sentinel-Review.
A. W. Bamister, B.A., formeriy Professor of Latin in Albert College, has been appointed classical and English mastu: in the Farmersville Eigh Scliool.

The High School has begun work for the autuinn torm with an attendance of $13 \overline{5}$, rather more than last year on the corresponding date. It was thought by some that the imposition of tuition fees and the opening of Petrolia High School would diminish the attendance considerably. - Strathroy Age.

The best and most important part of $n$ man's education is that which he gives himsulf. - $\boldsymbol{E}$. Gibbon.

Rev. Dr. Muckridge has been appointed Inspector for Schools, city of Hamilton.

From thr Far West. - "Office of Steenerson \& McManus, law, real estate, and loans, Broadwry, south of U. S. Land Office, Choorston, Minn., Sept 4: Gentlomen,-Please find enclosed 81, for which send to me Hughes' "Mistakes in Teaching" and "How to Secure and Retain Attention." Are you still publishing Caxida School Journat? and if so, pleaso send samplo copy. I wish to seo if, after tho manner of many school journials, it has fallen from its once high standard. I am, gentlemon, yours very truly, Geohae J. MoMinnus."

Mr. McClurg, formorly the efficient Principal of the Petrclea Public Schools, has beon appointed first Assistant in tho Provincial Model School, Toronto. Mr. McIntosh, formerly of Brantfcrd Collegiate Institute, has been appointed second Assistant.

Inteimediate Examinations. - Snith's Falls passed 3 Intermediates ; Renfrew Schuol passed 4 Intormediaces, 4 third class and 1 second class. Grado B; Pembroke passed 1 Intermediate and 1 second class Grado A. Launrk passed 3 Intormediates and 1 third class; Perth passed 8 Intormedintes, 5 third class and 8 second class, Grado B's.

At the recent non-professional examination for teachers, Lanark Village Public School passed two seconds, ono third and threo intermediates, ns follows:-Second Class-Audrew Bradford, Grade A; Lizzie Hilhs, Grade B. Third Class-Maggıe Drysdale. Intermediate--F. Day, Lizzie Drysdale, Carrie Marr. It was a pupil of this school who won the gold medul at the recent Entrunce Examination at Almontes and another who headed the list m Porth Collegiato Institute.

The following pupils of the Ryerson High School passed the firstclass non-professional examination :-Grade A. Wilson Taylor. Grade C.-J. Hogg, E. McKilber. Mr. Taylor was the only person in the Province who obtained a first-class Grade A. nonprofessional certificate.

PRINCE EDWARD ISLAND.
The Charlottetown schools commenced work on the 25 ch of August with a large number of pupils.

The Prince of Wales College and Normal School re-opened on the 27 th of August with 105 students. Eight scholarships were competed for-two for each county and two for Charlottetown. The successful competitors are:-Roderick McNiol, Frederick McMillan, Queen's City; Minnie Howatt, Geo. W. Schurman, Prince County; Thomas McLeod, F. D. McIntyre, Kings County ; Maggie Maxficld, John F, Clarkin, Charlottotown.

The Educational Institute will meet on the 6th and 7th days of October. Invitations have been sent to Prof. J. G. Mrgregor, of - Dalhousio College, and Prof. Gecrge E. Foster, M. P., of Kings County, N. B. A large and interesting meeting is expected.

Messrs. John Ings and Thomas Foley were appointed members of the Charlottetown School B^rd. The Government appointed W. E. Mawson, Esq., (ex-Mayor of Charlottetown) Chairman of the Bcard, rice Hon. J. Longworth, whose term expired.

The present popular and worthy Lieut,nant-Governor of this Province was, up to the date of his appointment, a momber of the Charlottetown School Board. Ho was an energetic and useful momber, and the teachers feel that in him thoy have a warm friend in the gubernatorial chair.

At the closing session of the Provincial College and Normal School, the Governor-General's silver medal was awarded to Gordon Laird, (son of ex-Governor Laird); and the bronze medal to George W. Sutherland, of Montague. The former was awarded for General Proficiency, the latter for Proficiency in the Normal Department of the College.

The teachers of this Provinco are beginning to take a lively in terest in the Canada School Jobrnal ; and many more of them will subscribe for it before the close of the present year.-Cor. Prince Edward Island.

NOVA SCOTIA.
The fifth annual session of the Provincial Educational Association met at Truro on the 16 th of July. The exercises continued until the evening of the 17 th . The place of meeting was the spacious Assembly hall of the Provincial Normal School. in his introductory address the President, Dr. Allison, welcomed the members of the Association to what gave promise of being one of its mosi interesting meetings, though ${ }^{+}$he deeply regretted that Mr. Ross, the Minister of Education for Ontario, had been unable to attend the Association. He hoped on some future occasion to introduce that eminent educationist to the teachers of Nopa Scotia. Proper allusion was made to the presence on the platform of Dr. Rand, and to his important services in the cause of Provincial education.
Mr. A. McKay, Supervisor of Schools for the city of Halifax, was unanimously elected secretary, and Mr. A. J. McEacheas, of St. Patrick's school, Halifax, was again chosen assistant secretary. The Executive Committee presented its report and submitted the programme of exercises. The first paper, "A Glimpse at Eng-
lish Schools," was read by J. B. Hall. M. A., Ph. D., of tho Prosinctal Normal School. In this highly-finished production, the intoresting results of personal observation in a number of typical English schools, were prefaced by, a brief sketch of the history of common school education in England, and an outline of the provisions of the celobrated "Fister Act," of 1870. An illustrative lesson on "the generation and properties of carbonic acid," was given by Mr. A. E. Thompson, a recent graduate of the Normal School. A class of about a dozen small children was inandled with great skill, and with results which greatly gratified all present.

The afternoon session began with an address on "Science in Schools," by L. Gordon McGregor, D. Sc., Professor of Plhysies in Dalhousic College. The learned lecturer alluded to the limited development of scientific education in Nova Scutia, and suggested that neither cur common schouls nor our culleges were duing their full duty in this important regard. So long as we remined in this condition, so long would the great natural resuurces of our country, be to a large extent, unappreciated and undeveloped. In other countries technological sehools and schools of applied scienco existed, which served as n powerful stimulus to industrial progress. These resisted on the basis of a diffused interest in scientific study generated in the common schools. Our teachers were earnestly exhorted to study science and to teach it to ther pupils. While by profession a scientist, Dr. MeGregor took care t? guard against a narrow interpretation of his views. He simply demanded ior science its righits, but not the rejection in toto of other studies which had been found useful. The proper combination of scientific and classical studies should be aimeli at.

Principal Calkin, of the Normal School, followed with: a paper on "Methods of teaching beginners to read." This valuablo paper may be summarized as follows :-
A definito aim and a determined effort were the prime conditions of success in any and every enterprise. A man who aims at nothing, it has been said, seldom misses tho mark. This principle of definiteness is as necessary and as important in educational matters as in any other matter commected with human affairs. Teachers should take note of this, and in all their work study to obtain a clear idea of the work undertaken, and also endenvor so to work that when done, all the various parts of his plan may so harmonize and fit together as to make a complete symmetrical whole, no deformities nor decrepit and unsightly defects. The ability to read in itself is of no value, as it is not inowledge but only the means of acquiring knowiedge. Henco there are two things to be considered.
1st. The child should be so taught-that his ability to read shall become to him an effective means for the acquisition of knowledge.

2nd. The child should bo so tranned to read aloud that he can convey to others in a distinct, impressive und pleasing manner thio ideas of the printed page, thus giving to himself and othors the fullest benefit of that which he reads. It is necessary to form habits of good reading even in the earliest stage of a child's life at school. The old method of giving to the shild the unmeaning syllabies $a-b$ ab and $b-l-a$, blas, or even more significant words, tends to make the child acquire the habit of listless readingnaming words without ever receiving or seeking ideas. A child's first lesson should mean something to him, should show him how objects with which he is familiar may be represented by written characters, that the written characters of his text-book represent the sound of the spoken word. The second aim is to secure to the pupil the ability to read, so as to profit and please others. This involves all those qualities of voice, manner and expression which distinguishes the elocutienist from the drawler and the stammerer. In order to secure this, the mstruction must be patient and vigilant. The methods for teaching beginners to read are, at least, four, the alphabetic or A B C, the phonetic, the word and the sentence method. The speaker preferred the phonetic and word methods combined.
The principles of the paper were then illustrated by an interesting and apposite class exercise conducted by Miss Miller, a graduate of the Normal School.
A very largely attended public meeting was held on the evening of the first day of the session. The Superintendent of Education, in opening the proccedings, referreal to the fact that Nova Scotia was just concluding her first twenty years' oxperience of the Free School system. He claimed that the Province was richer, stronger and better than she could possibly have been had her statesmen of trio decades ago decided to let her jog along in the old way. Much jot reniained to be done,
but puollc ciducation an Nua Suntia had an hunurabio past and at hopeful future. The chatiguahur of the uecastun was Dr. R.and, Protessur of Educalionand Instury all Acadia Collore. Tho sul, ject presented to the audience, was the posithemaceupied hy tho teachorm the eyey of the cummenty as monsumed by tho finmenal recogin tion accorded him. The magnificent prizes within reach of other professonns, nutably the legal, were contriasted with the paltry spitends of teachurs and tho limited pussibilaties of their profession. The speaker shoned the magmade of the trusts committed to the, teacher, and the importance of the results which ho was expected to educe from the material phaced in his hands. Ho urged tho necessity of creating as suand public upinion on the subject, that one of the most impurtant of the professions may no lutiver be the most pourly pad of all. Rev. E. M. Kıerstead, Hrufessur .. : wric in Acadia Cullege, folluwed in a brief but much admirable speeci., setting forth the dignity of the teacher's calling, and the power whicha true education, symmetric and complete, onabled its pussessor tw wield and the stirring conditions of mudern life. Cul. Blain, M. P. 1. for the County of Colchester addressed a fow rigurous remarhs tu the Assuciation on his f.rvorite tupic of Industrial Education. His good matured thrusts ant the Elucational authorities, whom he seemed to regard as ssmewhat remiss in seconding has effurts, were thoroughly enjuyed by the audience, and nut the least by thuse against whom they were directed. Mr. Carswell, the noted temperance lecturer of Ontario, who happened to be in the audience was londly called for, and brought the meeting to a most successfal close carnestly exhorting the teachers present to bo true 'lemperance workers both by precept and example.

On Thursday mormug the Association, after the transaction of some runtue business, listened to an interesting paper from the Assistant Seeret.ry, Mr. MeEachen on "the Elucational value of the sturly of Languare." The drift of this elaborate essay, whech was elegantly eun.pused, was to show the danger of too exclusive devotion to physic.l science on the one hand, or matiomatios on the other. Thu part which the study of language and hiterature had played in developing great characters and careers was eloquently described, and a carefully reasoned out exposition was given of the underlying. philosop'y of the author's theory. Principal McKay (of Picton), who warmly complimented Mr. McEachen on the excellence of his paper, followed with a modest plea in behalf of science, claiming that the scientist argued against by Mr. McEachen was not the scientist of true modern progress, the humble devoted student of sature, who made it his sole business to search out and reveal the mind of the great Creator as revealed in his works. The last session of the Association was devoted to the consideration of two valuable papers on subjects connected with health and proper physical development. The first was by Dr. J. W. MeDonald, on "School Room Ventilation." In this paper, whinch. was amply ilhustrated by experiments, Dr. MicDonald, who has distingunshed himself by the philanthropic earnestness with which he has sought to enlighten the people of Nova Scotia on matters connected with the public health, so combined information, practical suggestions, and earnest exhortation, as to make one of the most valuable contributions to the success of the meeting. Dr. Dodge of Halifax, discoursed in an equally profitable manner on "short-sightness as resulung from defective methods in school Iffe." The learned practitioner called attention also to the general subject of physical Education, and detailed the steps which have been taken at a recent meeting of the Nova Scotia Medical Suciety tosecure the co-operation of the medical and educational authorities in bringing this mportant matter into greater pronunence in the schouls. Space dues nut permat a repurt of the full and exhaustive discussion which followed the reading of the various papers. The attendance surpassed that of any previous year, the number of registered members was 362 .

## NEW BRUNSWICK.

St. Joseph's College at Memramcook re-opened Sept. 2nd.
Mount Allison College, Sackrille, resumed work Sept. 11th.
The collegiate year of the Provincial Cniversity commenced Sept. 18th. Fourteen young men passed the matriculation examination, eight of whom went up from the Collegiate School, Frederiction. In the Freshman Class, some half dozen Cunnties are represented. The whole number of undegraduates thas year will be somewhat less than last year.
The alumn and friends of the Onivesity have been much elated by the success of A. W. Duff, A. 13., ( 841, m whang the Gilchrist Scholarship and gaining the first position among all the candidates examined for matriculation at the Londun Univorsity.

Mr. Duffs chas smates gave lam a comphanontary dinnor, in tho
 nembur of disting aished gr.udiatus and uchurs wore present, soveral of whom indulged in ladatory after-dnanerisms. It is naderstomi thit Eilaburgh Caversity is to add Mr. Duff to tho nambur of her Now Brunswick students.

Mr. Crucket, the Chief Superintendent, was present at tho Teachers' Institates at Shediac in Jaly, and at Hillsboro, Aug. 28 and 20, and gave public addresses in the cuurso of which explanations wore made relatice to sumo of the recont changes in tho Schuvl Law and regalations. There has been yuito a breoze of nowspaper writing on tho subject of these changos.

The Nurthumborland Cuanty Tuschars' Instituto was to meot at Chatham on the 2nd. and 3،d Octubur. A capital programme was provided.

## BERMCDA.

We have been pleasod to recenvo a visit from Mr. Simpson, the able Supermtendent of Schouls for Barmuda. Mr. Sumpson has held the position of Superintendent for ovor threo yoars, having been sent vut by the Culomal othice with a vew of organizing a schoul system. The success that has attended his efforts is proof that he is the right man in the right place. Mr. Simpsun, aftor paymg is visit to Turunto schouls goes to Muntreal, then to Buston, thence to Bermuda.

## (1)fficial Bepatiment.

At the repuest of a numbar of teachers in Ontario we republish recent regulations with reference to High School Cuurses.
I. The Cuurse of Study in High Schools and Cullegrate Institutes shall consist of such obligatury subjects as may be prescribed hy the Elucation Dep.rtment, and such optional subjects, within the limits determined by the Department, as may bo agreed upun by resolution of tho Roard of Trustees.

IL. The range of instruction in the obligatory subjects is as fol-lows:-

1. Fnglish Grammar. - Roview of Elementary work; Orthography, Etymology and Syntax ; Derivation of Words; Analysis of Sentences; Rendering of Poatry into Prose.
2. Enghsh Literaturo. - Critical Reading of portions of tho Works of Authors, to bo preseribed from time to time by the Departnent.
3. Composition and Reading.-(a) Composition-The Framing of Sentunces; Fambliar and Business Letters; Abstracts of Reading or Lectures ; Themes; The Formation of a gool English Stylo. (b) Reading und Elocution-including the learning by heart and rocitation of selected passages from standard authors.

## 4. Dictation.

5. History and Geography.-(a) Leading Events of English and Canadian History; also of Roman History, from the commencement of the Second Punce War to the death of Augustus. (b) A fair course of Elementary Geography, Mathematical, Physical and Political.
(i. Arsthmetic and Book-keeping.-(a) Arithmetic-Simple and Compound Rules. Vulgar and Decimal Fractions; Proportion, Percentage in its various applications; Square Root. (b) Bool:-keepug-Sugle and Double Entry, Cummercial Forms and Csagus; Banking, Custom House and General Business Transactiuns.
6. Urill and Calasthemes.- (a) Drill-The following purtions of Syuad Drill. Pusition of the sulder, standing at easo, Dressing a squad with intervals; turnings; extention motions; saluting; instruction in marching; balanco step, without advancing; advancing ; the slow mareh; the halt; stopping short ; stepping out; marking time; stopping back; changing feet; quick march; side, or closing stop; turning when on the. . a arch; squad drill in singlo rank; marcling and turmung; marching in file; diagonal march. (b) The boys to be rauged in companies, sized from both flanks, aud told off in companies, half-companies and sections, and practised in the marches and variations of step which have been taught in single rank; the formation of fours; increasing and diminishing front ; wheeling ; forming company square. (c) Culis-fhenucs-the regular exarcises for physical developuent.
III. The range of instruction in the optional subjects is as fol-
7. Algobra and Eucld -(a) Alyebra-Elementary Rules; Factormg; Greatest Common Measure ; Least Common Multiplo; Square Rout: F.actions ; Surds ; Simple Equations of one, two and
three unknown quantities', Ensy Quadratics. (bi) İmidid- Bowh I. ${ }^{1}$ and II, with ensy exercises, Appliantion of Geomeliy to tho Mchsuration of Sufices; Vulunes of Paiallellyipeds and Prisms, and of the Sphere, Cylinder and Cone.
2 Nutural Fhilusulhy, Chimistry and Butany.- iai Nutuoul Philosephy-Composition nud Resolation of Forces, Principle of Monents; Centre of Gravity; Mechanical lowers, Ratio of the Power to the Weight in each; Pressuro of Liquids; Specific Gravity, and modes of determining it ; the Baronieter, Syphon, Commen Pump, Furcing Pump, nad Air Pump. (b) Cliemistry- Comburinin; the Structure and Properties of Fhame, Nature and Compnsition of Ordiinry Fuel. The Atmosphere-Its Constitu tion ; Effict of Animal and Vegetable Lifo in its Cumposition. Wnter-Chenical peculinrities of Natural Waters, such as Rain. water, River-wnter, Spring water, Sen-water. Preparation and Properties of Hydrogen, Oxygen, Nitrogen, Carbon, Chlorine, Sulphur, Phospherus, and of their more important compounds Combining Proportions by weight and by volume; Symbols and Nornenclature (e) Rotany-The clements of Stuctural Botany, with special ruference to the study of Caundinn Plants.
3 Latin and Greek --(a) Latin-- The Accidence and the Principal Rules of Syntax and Prosody ; Exercises; Portions of works in prose and verse, as prescribed ron time to time; Learning by heart selceted portions; Re-translation into Latin of casy passiges. (b) Greek--Elementayy Grammar and Exercises.
8. French or German.-it French-The Accidence and the Principal Rules of Syntax ; Exercises ; Portions of Do Fivas Introductory French Reader and French Authors, as preseribed from time to time ; Re-translation of eacy passages into French; Rudiments of Conversation. (b) Ger van-The Accidence nnd the Principal Rules of Syntux; Exercises Portions of Adler's Reader amd German Aulhors, as preseribed from time to time ; Re-translation of casy passages into German; Rudiments of Conversation.
9. Music.-Elementary Principles.
fi. Drawing.-Linear and Freehand-Elementary Principles.
10. Physiology and Hygienc-Elementary.
11. Principles of Agriculturo-Elementary.

## SPECLAL SUBJECTS FOR 1880.

English Litevature:
1880. Scott-The Lady of the Lake, with special referonce to Canto V., Irviny-Rip Van Winkle.
1880. Cicero-Cato Major ; Ovid-Fuati, B. I., vv. 1-300.

French:
188i. Bonnechose-Lazare Hoche.
German:
1885. Schiller--Belagerung Von Antwerpen, Dor Taucher.

## 和ublishers' Bepartancut.

W. J. GAGE \& CO.
intelrestina desmption of their factory and warerooms.
We republish for benefits of the readers of the School Joumsal the following extract which recently appearedi in the Turunto Mail. No doubt there are somo will be interested in reading what others say about us:
The most interesting features in an industrial and commercial centre liko Toronto, perhaps, are the factories and warehcuses of tho merchants. The vast strides made by Turuntu's industrius during the past fev years have frequently been commented upon. Not cmly do the great extensions of the industries give them a peculiar interest, but the improved machinery that is being used demonstrates the real advance that is being made. New machinery is being used and new methods are being adopted. A visit to the warcrooms and factory of Messrs. W. J. Gage \& Co., 54 Front St., may prove interesting in this connection. This firm does a very extensive business, which is growing in dimonsions overy year.
book and statlonehy mepaltients.
In the first two flats of the warchouse, which is one of tho largest of the kind in the Dominion, are displayed three large strcks of miscellaneous books and stationery. The hook stock enibraces tho lines of the leadng publishers of Great Britain and the United States. The immense stock of stationery and stationers' sumdries comprises printing, writing papers, blank books, and manufactured stationery of every description. Two entire flats of the building are used to display goods, and overy conceivable kind of stationery and stationers suidries aro to be found thero. The neat and
carcful way in which the goods aro displayed, tugothor with the attontivn that is given, show that the clements off success are not hackaHs: The stuch of blank bouks, wheh uctupies cunsiderable space, besides being extensive, is of a superiur quility. Everythung that cuald hu hecad in a first-elass stationer's and bowhellers' sture is to be scen theto in abundance.
the manufacturina depaltment
includo ewvelopo nahing, printing, hithographuy, binding, and the other necessary adjuncts. In the hthugrayling department copyboukt are printed, wad this forms an inpuriant part of the busuess. Not lung ayo Eulish copy-books wero used almost oxclusively in Canadn. The Canadan artele recoived very little parronage. Matters are now clanged and the roverso is the case. The cause of the rovolution has been chiefly that enterprising compames have gone extensively into tho business and manufactured an article that is not only equal, but superior to that of the Enghsh. This is chiefly due Messrs. Gage \& Cu., who wero among the first to recugnize the unpurtance of the trade. The copy lieads are printed by hand machanery, hence the perfection that is obtained. The mahing of envelupes is also carried on by Messrs. Gage \& Co. Tho maclunery used is the latest and chietly the bettor kinds of onvelopes are inanufactured. The composition and printing departments are under the control of competent men, and the work executed speaks well for their ability.
the biñding department
is in overy respects a model one. Until recently periection had not been reached in binding machinery. Everything was dono in a most laburious and exponsivo way. A creditible job could only be turned out with difficulty. But the bindery of Messrs. Gage is Co. 18 of quite a uifferent character to that. The most intricate and expensive machinery, which does the work in a stylo hitherto unknown, is used. Folding machines and stitching machines take the place of hundreds of girls who were formerly employed. Books are folded and stitched without being scarcely handled. The work is done accurately and clenalyy Instead of the cumbersome hydraulic press a very simple one, which has just been perfected, is adopted. After the books are bound they undergo an inspection to make sure that they are all fit for the market.
edecational departaent.
The school book publishing of this firm has assumed lange dimensions, and their Public and High School text-books are found largely used in every"province of tho Dominion from British Columbia on the west to Prince Edward on the east. Their granumars, arithmetic, readers, copy books, and a score of others are now recogrized as the staudard text-books. It it stated that of tho copy books alone over hatf a million are issued a cuually. The publication of all these books has led to the employment of some of the leailing teachers of the country as editors, while the printing and binding necessitates the employment of a large staff of skilled workers, and the consumption of large quantities of paper and other supplies, One of Messrs. Gage $\mathbb{i}$ Co.'s specialties is school supplies. Their school books have been adopted almost throughout the whole of the Dominion. In this trade they are the most prominent firm in Canada. Their business ns booksellers, stationors, and publishers of educational works bid fair to assume still larger proportions.

## Trachers' Associations.

The publlshers of the JODRNAL will be obliged to Inspectors and Secretarles of Teachers' Associations if they will send for put lication programmes of meetings to be held, and brief accounis of meetings held.

## PROVINCIAL TEACHERS' ASSOCIATION.

Ontanio-Continued.-As provided by tho programme, the threo sections into which the Association is divided. Public School, High School and Inspector's scetions-met separately for the discussion of matters specially appertaining to the work of those in these three branches of the profession.

In the Public School section, the President, Mr. James Duncan, of Windsor, occupied the chair The first business was the annual adaresu of the President. This address, though brief, was pointed, and dwelt upou several mitters of gravo importance to the teachers and to the pubhe as welt. After culogizing Dr. Kyerson and dwelling upon the great work that he had accomplished, Mr. Duncan dwelt upon the necessity of closely watching legislation affecting tho school system, oxpressing at the same time great hopes respecting the change to be made at the next session of the Legislature under the present able and popular Minister of Education. Mr. Duncan expressed gravo fears of
the result of the tendency to an increase in the number of female
teachers ant a correspon lund deereaso an tho number of mate tonehers. His ohservation taught ham that the ambinon of woman was not to comblact a school, but to res, an hor own family. Bapermenced teachers changurg their sug le state for that of marrod hite must meessang be sueceeded by less expermenced teachers, and thus it was pusstble that great
 to lewe the profession, ant thas leave the way open to women. Ie confessen hanselt mable to surgest a remery. except that valunble and skalful teachers shonl. he given imduements to reman in the pre fession. The question of tho bible in the pulbice selools was also brietly tealt with, the ['resulent expressing a preference on the whole for the present system, fearmg that any of the changos proposed womld lead to uscome, and so lessen the elficien'y of tho school system. A paper was then read by Mr. John Cumplell upon the supenambution fund. 'Ihe paper was an clabomate argument m faror of mantaming tho fumb, on the gromad mainly that the dier teachors who had horne the heac anl haden of the day for very small stipends couhd not otherwise be ticated with justice. The paper also ponintel to the systems of superammation among clergymen and other classes, and those of foreng countries, as proving the genemal reand for the promeple modred in the present system. Ir: 1). J. Murphy, of IIest Midillesex, was whe of the most

 as to be tarr to all. Je complamed especha!ly of the foums the teather had to sign if he sonofht a superammation allowance leforo he reached the aye of 60 years. One of the declarations to le mate is that the opplieant is mable to teach and has no other menus of suppurt. Thas, le contended, placed a premam upon extiavigant lialits cind want of economy. Uther declarations were an manalt to the teaching profession. After some tume a resolut on to the eflect that the guperanmation system should he continued in some efiement form, was carrfed over an amemdment to the effect that those who deswed at shomla be allowed to wathdraw the money with minterest, they had paid nuto the fund, hat that the fund, shonlit be contmued so far as it attected those now on the fund on those

 legiate Institites. in support of the view that there should be a departmental exammation m busmess subjects. Mr. H. I. sta, alyg, of comeinch, real a paper on " Maticulation Exammation in the Cureisity," consisting manaly of comments on the curricalum of the limversity. In the Inspectors section the disenssion was manala on aneenitments to the school law, and a number of chances were suggested. Under the present law it is provilen that a chind shall attemid threten weeks each term, but a resolution was carried propusian an amemiment chams ing the number to thateen weeks for the forst haif year, and mue wecks for the secome halt ycur. Another resulution was carred in favor of an increase of the legislative prant to l'ublic schools, and that tedent to each sehool department, and the hatance on purtion as a the average attemiance. Also that the mspectom on cumplethig the apporthonment of each of the sehool grames shall furmish to the county or subtreasurer a statement of the sums. apportume $i$ to the several sehools-the amount for superamontion haviag been deducted-amid that the tifeasurer shall pay the sand amounts to the teathers on the oriler of the trustecs. A/lernoon bexstou. - Ilice Assousation, as a whule, nssmbled in the theatre at two ocloch, Hun. G. W. Hoss, Iresident, in the charr. The afternoon was devoted to the readias and disciussion of papers.

COUNTY 3ODF, sCHOHLS.
The first was on " How lest to secure the nermanence, and increare the eflucency, of the Cuanty Moilel Sehoole," liy Mr G W. Johnson, of Hamiton. After sumo proliminary remarka he sigsestel, in the first place, that readurg, mental arithme ic, hy in me, ant at review of the first tour classes of the philia Shaols shoulilie take off the Model Sihnol course, thas giving time for matters mre in the line of those schools.
 smadler ones woulil be tu lineak faith with foar is of trustres, who had gone $t$ the truable and expease of proviling for the accommoration of the shodel school. Rathar than this he blieved that the number at the. Doilel suhools shoulille cyarlizel. Most of the pipls in Vo iel Schools hat to go frum hume in or ?er to sta ly in the Mrime Schonl, and a tew males futhor whil wake little or mo difference to them Fle denied what was so often said that the existence of a Mold School in comnection with another was a hindrance to the work of the school. On the contrary, in his upini $n$ it was aundvan'age rather than a himirance. He know as a fact that in many instinces the pupils in the advaisage of haviog the lessuns presenteil liy a numbre of teachers He made a number of suggestions as to the work of the Vorlel Schouls, all tending to the view that the practice as well as the theory shoulil be to teach young teachers how to tewh. He $t^{\prime}$ nurgit that the fiovernment grant should bo ancrased to those seliools in which tho Prinoipal was
free to give all his time tir Model Sehool work. As the third-class certulieates were now good ill every part of the l'r wince, the examina.
 oveupy the last week of the termand should be taken up with the netual work of teachung by the candilites under the eye of tho oxamuera. Tho Connty llasid in his opinion, shonlil consist onfy of three menhers, tho c ty, town, or county inspector, chaim in, anl the primeipals of the city, town, or county FIgh and Model Schools. A fee of \&5 wns now chargod each stulent teacher. Si.pposing there was an avera se of $1 S$ in attent. ance this would make $\$ 90$, of wheh $\$ 50$ should go to the Connty lBaard for their services, the halane of $83:$ bein: given yoar by year for tho purchase of a good Monlol Sehoul reforence hinary. After other sugges. tions relating to matters of detail he developed a system for making the thard-c'ass certafieates permanent which at the sanue time might ho used tu Weed ont tenchers who it was clear could not become suecessful. To helieved that County Doilel Schoois must remain a feature of our educational system, and thought that if the suggestions he mule re adopterl, then efliciency would be increased. (l.ond applanse.) Mr. lielly, of Brantford, s:ail that he conlil not quite agree with all that had been said. He objected to the master of the Molel School being a member of the lionard, as this prineipal was rejected in all other cises. He olijucted altusether to making eetincates permane $t$. Any teacher whw was lit to do has woik should aliane:, it the did not ho should lewve teaching and and talise sume other ;esition. Mr. Melbian, of Untiario, agreed with the realer of the paper respecting the permanency of thint-class certificates because a teacher conlil do ims wobl better aiter capericuce. Mr. Scalett, while not pr. pared to favour the inlea of the Moilel School master leing a member of the Board, yet the ught a good de.l of deforence shouhl be pani to his reput. Mr. Chalwick did not seo that it was necessary to mantan ail the oxistag Model Swhools. The large ones dal just as goo.l work as the small ones, and there seemed to him no duabt that there were tou many now m existence.

## THIRD-CLASS CEMTIFICATES.

A paper on the status and value of thrid-class certificates was then read by Mr. F. M. Michell, of l'erth. He sand that as seventy-five per cent. of the teachers were those holdang thard-class eertaticates the status of these was most mportant. The MImster's report showed that there was an nurease in the mamber of those authorized to teach by permits and other-as he conshdered them-unlawind means. (Laughter.) The l'resulent-"Irecular' would be a better wond. Mr. MiehellI accept the word. (Renewed langhter.) lhe merease to which ho referred showed that theae was a large proportion of teachers who took up the profession as a mere make-shift. He objected strongly to the , system of givang three years certifiates, requaing at the end of that time a recaimmation on non-professional subjects. He could see no reason for this. If there was to be an exammation at .ai, it shouhl be in the protessomal branch. Teachers changed about, and were in fact a tace of biris of passage, here to day and away to-morrow. Tho teachers recuted the ranks of the mmesters, the doctors, the liwyers, aud the look agents, (Jaughter.) Many took up the work merely to secure incans to taho a conrse in litw or medicine, and this must have the etlect o! degradmg tho profession. This mght be to some cxtent overcomo ly a change in the mode of grading certificates. He objected to third-chass certificates bening good outsude of the county in whuh they were granted, benatuse the mote of examuation differed m hifferent places, and becanse thas offered unfar cumpetition wath holders of higher certificates. Tuachers, different from people of other classes, made anmual agreements, occassoming an annual buckermy with tho School lloard. The agrements shonld be for an indefinite term at a fixed salary. (Applause.) In order to get over some of the difficulties, the would suggest an merease in the membershp of rural School Boards. this would make it more dhficult for a schemer to mampulate the Board. He objected very strongly to the proposal at one time made to legislate the salaries up. A good teacher would have no difficulty in getting a good salary. Onc of the diliculties was that many teachors wanted everythng done tor them, and ad not want to do anything for themselves. Another great difficulty was that the parents tools fittle interest in the schools, except when thear chaldren complaned, or were not promoted as rapully as the parents desired. Scholars shoulh bo compelled to attend regularly. Oiten chaldren were allowed to stay away beause they did nut like the teacher. A teacher's position should not depend upon the likes or dislikes of children. Another diffoulty was the shameless way in whils too many teachers deserted thear employment, breaking faith with school boards and with tho pubinc, also the enilcavours sometimes made to undermine each other. (Applause.) He had greit hope for the future of the profession, and thought that with a proper asscrtion of their dignity the position of teachers would be better.
cosflictivg opinions.
Mr. Alcxander, of Galt, strongly sympathized with the idea of making third-class certificates permanent. Tho many certificites bocoming void now mado places for persons who desired to make teaching a stepping stone to something else. Yet he thought it must be evident a stepping stone to something else. Yet he thought it must be evident
that tho grost number of now-comers could not bs at offioient in thoir
work as those who had been tachers for three gears. In reply to a question from thel'resident, Mr. Aleanaler stated that in hisexperience there were many teachers who went out of the profession because they did not care to face the work of a second class certaticate.

## scliool, faxb.

The report of the School Fund Committee was presented by Mr. J. Dearness, ns follows : Ist. That the amount of the legislative grant to public sehnols bo langely mereased. 2nel. That a part of cach ghant (say one-half, be davided equally mong all the sehool sections m the minicipality, and that for the purposes of this section each "additional department" count as one-halt of a sehool in makng this division. 3rd. That the balance of the legislative grant (sisy one-halt) be appopriated on the basis of the rates of taxation in the several school sections for the previous year, and that the balance of the municipal grant be appropriated on the bass of average attendance for the whole year. The report was adopted without amendment. The main feature of the evening session was an address by Rev. Principal Grant, of Queen's University, on the subject of "Some popular fallacies with regaril to education.

PIINCIPAL GIBAST's ADDREKS.
Rev. Primipal Grant, called atten:ion to the fact that ho did not choose to sipeak of all fallucies in cilucation, but only some. He did not propuse to give them upinions, , , at tuattach fallacies. If opimons were to be given, for instance, he might say that he would preter to have a nenpolitical head of tho Education Department, une hav ing is seat in the Honse, but not for any particular constituency, and with the right to speak on clucational matters, but without the right to vote. He would not argue the proposition, le would merely state it. A Munister of Elucation would le all the better if he were not a politician. He thought that, in order to progress, they must be freed from the thmal. dom of mere words and theories. The thecry-ridden mmad was almost debarred from progess. One of the things to be got rid of above all was conceit. . Wo had got into the idea that we had a perfect system. We touk prizes at foreign exhibitions, and intelligent strangers commg here, being interviewal and desiring to say something civil, praised our cducational system. We therefore got a conceited idea that wo were, far ahead of othes countrics. A true system must aim at sendung vat the youth with mimis fleable and strong. Education sl ould have reference to the race, surroundings, and circumstances of the pupils. What becane of all the gold medal wames? No womber that someborly had said the hope of the emmatry was in its stupnd boys. Tho delicate, sensitive l, rains were killed by over-stumulation. There was seen the evil of early competitive exnmmatoons and of frequent promotion examinations for young chaldren, particularly when the promution of the teacher depemied upon the risult. Pour man! He mast live though they died. Boys brought to him exammation papers, and he confessed that he would bo placked upon them. There was also the sesult cramming which left the lman ma congested state. Young men came to college andious not to sturly as much as pussible, hut barely to serape through. Another result was that the mind was chssipated among a whole lot of subjects. In many school- were the three R's bady doneand a great many oivoies not done at all. The me a who framed the curroculam had no natenton of puttug in so much, lut creo- man who came along had soma new fat and sis all ti.is lot of subjects "as pressed down upon the poor little shrinkug brain. The gieat thang he thought, was to teach the cluldren how to real. If they taught them to read so as to understand what they read, there was no chamber of the great temple of knowledge which thay might not anlock, and if they did not unlock them it was their own fanlt. Then there should be optional courses, and thoso studies most useful for their gymnastic results. He highly commended the German sy stem of intermediate schools, and called attention to the fact that the Irofessurs of the Berlm University had declared that even for the study of science, the gymasium was better than the sehool on wheh the science towaing was begon. Rather than a traning in mathematics he would train in hiterature, for a literary tramug was in his opimon the best for all (Applause.) Taknge up nuother branchof the suljeet he duelt upon the fact that 1 t was an old practice to lrugg the plastoc, unawakenct mind of the child in contact with the formed and awakered mand of the teacher. That was a gooti rule. The better the teacher the better the school. Having found what they wanted meducation, therefore, the neat thimg was to find out how to secure the best teachers, retann them, and get tho most ont of them when at worb, and how should they smooth the way of the children to come in contact with these teachers? A host of fallacies clustered round these questions. Some people sand that they could get the best teachers by paying them. He din not helieve that. To secure teaciers they should make the profession thoronghly honourable. To lo that they must follow the lines of other professions. It must not be supposed that the best way was to hire teachers by the year ; they did not get ministers, or lawyers or doctors in that way. Thoy must enable the teacher to retan his seli-respect. It was not calculated to promote the self-respect of tho teachers by compelling them to retire at the end of three years unless they passed a higher examination. But they said these teachers wero given permits to go on teachmg. That was simply putting the ropearound the teacher's neck, and giving
him to understand that the rope might be tightened and his official lifo taken away at any time. Ngan, they would not allow the teacher to examine. If the wanted to find out the pupil's ignorance, that was right. Buat the object was to find out his knowledge. This system was obsolete in England, and should not he retained here. The Scoteh system which emabled loys to study in their own schools, thus emabling them to prepare for college at home was better, to han etogo to a sehool tivo miles cistunt was as great an expense as to go to one five hundied miles away, for he had to pay his bourd in cither case, and thas must keep many elover boys away. The result was that a great deal more was done with the same grant in Scotland than in langland, and the reason, he helieved, was largely because of this system of local training for the Universities. The teacher $9^{\prime}$ hampered, pressed back, nad harassed, were often told that one of the great needs of thein profession was that they should be enthusiastic. What encouragenent was there for them to be onthusiastic? No wonder that many lett tho profession. He asked them to remember that he had been talking ahout fallacies. Fad he been talking ahout their em ouragements his tone would have been different. For they had many things to encourage them, and their position was much better than that of the teachers who had preceded them. They had the grandest material to work upon minds created in God's own image and in their hamls lay the destiny of the country. He asked them to remember that, and prayed that the blessing of cod would rest upon them in their labors.
Hon. (; W. Ross presented the medal won by Mr. W. H. Davis, of the Ottawa Normal School.

Lavark. - Tho first business was reading minutes and commmications. Mr. Michell, I. P. S., anl l'resident of the Association, delivered the opening : iddress. Mr. W. A. Smith, Almonte S. School, should have then read a preper on " How to increase the influence of the profession," but failing to take his place, Mr. E. Anderson, No. 2, Prakenham, gave a practical illustration of his method of teaching "Mental Arithmeti to Lutd aul ird classes." The l'iesident called on those present to stade any difficulty they hat inct with in teaching spelling. A mumber of difficulties were mentioned and written on the black-board; the President then took them up one by one and threw much light upon each. AIr. J. MeCarter read a very tine essay on "The Status of the Teacher." The essay was so good that we will not lo it the injustice of referring to isolated parts of it. Several teachers joined in a discussion, all commenting the essay, and particularly mphasizing the necossity of the teacher heing a pattern in morality. Mr. John McDomald, of No. E, Pakenham, then read a short but instructive paper on" "Musie in Schools." Me adiocatcal the Tonic Sul Fa Nystem as being much simpler, and capable of being more easily and more quickly taught than the common methool. Dr. MeLellan highly conplimented Mr. MeDomala for his paper, and zaid that it was very probable that music and industrial drawing would soon be mado compulsory subjects in our High School curriculum. Dr. McLellan then gave a short lat instructive ndldress on the best methud of teaching reading, pointing out meny of the most common errors into which the great bulk of readers are apt to fall. On Friday morning the election of ofifers took place, with the following result: F. L. Michrll, M.A., I.P.S, President ; J. MeCarter, M.M. P.S., Aimonte, Vice President: H. S. Robertson, Purth M.S., Secretary Treasurer ; Committee of Management - Mr. Jitcques, Perth M.S ; Mr. McCreary, S. Fills P.S.; D. M. Ross, Lamark P.S.; J. M. Johnston, B.A., M M. H.S, ( Place ; and Miss Finlay, Balderson P'S. Auditors, M. RothWell, H.M. C.I., l'erth, and N. McDonald, Balderson P.S. Mr. Walrond, of the Almonte High School, gave quite a lengthy blackboard illustration of his method of tenching vulgar tractions, and received the thanks of the Association for his papers. Mr. Ruthwell then took up the sulject of the "Assignancut of Home Work." By his remarks we shoul l judge that he was not in all respects in accord with the present stato of athairs. Mr. MeGiregor, of the Almonte H.S., then adilressed the Assosiation for half an hoar on the subject of "English Composition." He pointed out what he thought were the best methods of teaching the subject.. by the teachers speaking ccrrectly, correcting all oral or written mistakes made by the pupil, practical cxerciser, themes, letter-writing, etc. Me clamed that the pupil should commence in some measure the study of Endish composition the first day he enters the school, and that it should be continued side by side with English Granmar. The last paper was an exceedingly well arranged and well conpused one on "The Atmospheres," hy Mr. J. R. Johnston, of C. I'lace H.S. After a short discussion on this subject the conventioa was brought to a close.

Prince Edward. - According to programme, the forenown was spent in tisiting the pablic school, Picton, and observing the methods of teaching followed by the Vrincipal, Mr. R. W. Murray. Atithmetic, Grammar, Inctation and Readmg were talien up by the Pimeipal and handelel ma very thorough anif practical manner. At half pust one the teachers assembled in Slure Hall. The meetumg was called to oriler by the Yresudent, Mr. Murray, and opened wath prayer by the Inspec. tor, (3. D. Mlatt, B.A. H. M. Faul was apponted secretary. Minates
of last meeting were read by Secretary aud approved by convention. The report of committec, Messrs. Kimmey, Fiul and Brown, on Chief Superintendent vs. Minister of Elucation, w:as next received. Mr. Kimey, opened the discussion, and favored removing elucational atfirs from the arena of pulitics. II. M. Funl nest folluwed, showng that points in favor of the present system far ontweighed those against,
 polities. He was well supported hy Messrs. Brown and Phatt, anil the following resolution was brought forward: Moved by H. M. Fame. seconded hy W. R. Brown, that this convention is of the opinion that
 tional affains until at least we have given it further trial. Carried. Mr. Weeks next intro:luced tho subjeet of Reduction in a thorough ami
 nations was disenssed, and the present arromeenent was approved of. Convention alljourned to meet in Town Hull at 8 becloch, when an excellent lecture was delivered by Dr. MeI Lelan, an account of which will he foum elsewhere. Saturduy-Mr. Jolun Kinncy was nyppointed delesate to the Prowncial Association. A communication from Coronto Publicic School Prucipals Association was next reat. Tho referred to
 Messrs Mirrray, Bruwn, D. Lsoun, Faul and Trumpour, a comanttee of Messrs. Dobson, Murra, Nethery and the lnupector was appointed to
report at next convention. Mr. Phat report at next convention. Mr. Platt next read a conmmuncation concern-
int the estali-hment of an Art Scluosl in loronto. Dr. Melellan was next iutrodnced. Suluject-Literature in Publice and High Schools. He stated that literature in the publij- sehouls h.ul nut been a suceess. The selections in the Fourth book were very poor, and not the best that the hoonk contained. Grays Elleg was not among the selcetions. The Eaglish Language stanis pre-eminent. There is more thonglt in Nhakeopeare than in Homer mal all Greeh poets together. Alum at giving a taste for literature. It should be taught to all the classes. The faculty of story telling siondil be caltixited. Literiture must be in the teachers fist. Mr. Dobson took up the sulpect of composition under tief following headings: (1) Correction of Mistakes, (2) Purity of

 tion, (S) Paraphrasing, (9) Letters. The Auditur's report was adopted.
Convention adjourued. Convention aljourned. M. M. Favl, Secretary.

## REVIEWS.

Ginn, Heath, $t$ Co., have just hrought ont the Americun eopyrighted edition of Mr. Alexander Gustafson's great thok on the Drink Question. which has aircady beat accerted in E:ubland ns the most comptete beonh on the sabject ever made, and one that will ine the bille of temperance reormenfor jears to come. The promament revews have promounced a: the fairest, nost exhausiave, freshest, and most original of all the literature on the suijert that has yet appeared. They also declare it to be must in partial and careful in iss cridence, and hair and fearless in its comelasions. Its aceuracy is vouched for ly the best phyy inlogicts and physicimas. Arr. Gus:atson is a Swede by birth, he is a graduate of Harvand Cuiversity, and has mon higin distiartion as a tharsugh student of world politics, and aq a political writer of marked insight and acencen, having written articles for the hostum and Now York dailies, as well as for the "North American Review:" "Natioual Quarterly;" and "Allantic Monthly" Price, $\mathfrak{s y}$, by mail, s.e. 5.
Queston Book of Staxclastifand Nazcotic. Ry C. w. Bardecn, Syrcuse, N : y . 3 p pr, 10 cts.
This excellent hatle trook is exactly suited to the needs of our sehoms. It is dhoroughty scientific in its matier, containing nothing but hard facts judiciously arranged.
 tor and Thomaz Charmbarg, Boston: F. H. Gibson: Chicago: S. A. minchrlid. Co.
A collection of stadies and fongs in the first and secont steps of the Tonic Sol fa Method. The lxok is ineautifuly got up, and mase prove a treasure to teachers of this new system.

A Finst linok wimmogr, by N S. Shaler, S.D, Boston. Ginn, Heath d. Co. 330 piph, S1. 10.

Dr Shaler, frofeseor of palamontology in Harvand Caiversity, has pro

 has suecreded in making $n$ really attractive $\ln n \mathrm{~h}$ which is of special value to iczehers on arrenime of the $\overline{0} 5$ pagre of Dirextions to 1 eachers. Thure are ahnut 150 fine illustrations nad a great deal of mattey of great interest to students of physical georrajhy.

Eximciser in Thisalation it Staitr. Atranged byA. W. Spratt, Jf.A., and A. Pretor, M..A., Rivingtons, Lonlon.
Vol. T. Oirginal Rassages; Vol. Ir. English Version.
 Teaching No. Xiri.), Boston. Ginn, Meath \& Co.
This hook would mahe an execllent manual for the upper classes of our public sechools. It is really a series of lessons on the clements and a fors of their conpomuds.
A Puecticat Mt.thon of Learning Spanisit. By Guncral Alcjandro Y'barra, 'rafessor of Modern Languages in the Martha's Yincyard Sum. mer Institutc. 320 pp . Ginn, Meath \& Co., Boston.
This bonk properly assumev that lan ;unge mast precedo grammar. It aims at the ghoricat method of civiu; the learner a vocabulary and com. mand of the $s$ ntence. It d.es nut pretend to be a formal grammar but is rather a series of practical langiage lessons. Each lesson is divided anto three parts: first, inmortant words nind phrasea, idiomatic constructions, and exercises on the conjugtion of the verbs; second, $n$ reading exerciso with tranklation in parallel columa, third, a practical consersataon to bo tranalatid from dictation. Every teacher of langiage may learn somethang from the method of the book.
 New Yorit : A. S. Barnes and Company, 320 pp.
This clegant whame gives in readatle form an account of the hberal minded patriut who devosed so mach of his means to the estabhishment of Cornel Ea versity.
Fohta seconn disucal Repuitiof the Bocrd of Educition of the Citi of New Yobs.
This volume will be fo:mad well worthy of a creful perazal hy evors one interested in education.
A Methon of Esobisil Conpusition, by T. Whating Baneroft, Professor -f İnglash Laterature in Brown Lintecrsty. Buston: (iznn, Heatiz \& Co. 10 pp .
This is a supplementary worle designed to outtine tho logieal relations of Rhetoric, and to discuss the different kinds of composition from a rinctorical point of view. This part of the losok is well dono and the stadent will find it very helpfol. The examples and lists of suljects in part II. are excellent.
 ler, 911 Areih St. $109 \mathrm{pp} .$, ptepcr.
rinely grinted nad well got ap Kohicr's Catalogue will be aseful to students of German.
 Master of the Garts' Latzin Schoot, Ilosfon. 340 pj. Boston: Ginn, Henth © Co.
This is a piece of substantal work in lang ande tenching. The method of discovery hy muction is carried out an these lessons in such a way as to make the learnang of Latina a sp.endud peen of menllectual training in obserration analysis, induction, and generilisation. Every teacher of classics "ill leara here soncthaty about the method of trachung classies to be. ginacrs.
Findmonk ar Lattis Wirtiva, by Fienry Preble and Charles P. Parker Tutors of Greek and Latin in Hezard University. 101 jp. Boston: Gian, Heath \& Co.
Classieal masters will find the first part of this book very suggestive. The exercises are wel calapted $u$, the reqirements of learners, but it woald have heen lecter to and a fow notes and cautions wath each exerciso and a few goxd examp es worked out.
Varicty is a very marked feature of the North American Reviect for October. The firct two a:ticles, "Morsl Cazmetur in Polatica," hy Presideat Juhus II. Scelje, and "Why I Wish to Visit America," by tho Rev. 1)r. Auguatus Jussop, nre difficule to chaysify; bat each of the remaining nix represtats a distivet department of thought. In theology we find "The lhilosophy of Conversation," by O. B. Fimhingham; in medicino - The Ong ${ }^{2 n}$ of Yellow Fever," by Dr. C. Creightom; m law, "Shall tho Jury System be Abohshed?" by Judge Robert X. Winyne; in literary (ratama, "The Genesin of 1 enuysuns Mand," hy hehard Herno Shepherd; am matary sercace "The Development of Machane Gams," by Lient. C. Sleman, and in polhtical cooumy, "The Benefits of tho Tarifi Syatem;
 Ing nod original z.i:nner.


[^0]:    Young teachers, tell your aiffculties to the school Journal-the teacheis' firiend.

[^1]:    - Aundged froan the opening address of Principal Crocket of the Provincial Normal

