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# The Canada School Journal. 

Vot. VII.
TORON'SO. JULY 1882.
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## TO OUR READERS -

In accordance with the custom now almost universally adopted by the publishers of educational journals in England and the United States, we propose to dispẹhse altogether this year with the usual August number of the School Journal. With this arrangement, we feel sure, our fenders wall find no fault, more especially as we give them a double nuriber for July. Teachers are naturally disposed to ${ }^{3}$ 多 as little attention as possible to professional matters during the summer yacation, and we propose this year to assist them in their endeavour to forget for a 'ittle v hile that there are such things as schools, conventions, and text-books.

## REMUNERATION OF COLLEGE PROFESSORS.

One of the difficulties in connection with collegiate management, and especially in comnection with endowed institutions, is the difficuity of keeping the teaching abreast of the age. It is very apt to fall behind either in the subject matter of the prelections or in the methods of the lecturer. While some members of a college staff may be doing their utmost and doing good work, other members of it may be indolent, or incompetent, or both. There is no supervision over their work and in the nature of things there cannot be any. Each is a law unto himself and if he fails he must beleft to be dealt with by the slow operation of public opinion which is never well informed of what goes on within academic walls.

One way of bringing pressure to bear on inefficient teachers and of applying the spur to indoleht ones would be the general adoption of the practice of paying each professor in a college a certain fixed sum and supplementing this with all the fees paid by those who take his classes, The students are
excellent judges of the merits of a lecturer and if a member of the staff were to fail in securing a fayourable opinion his income would suffer accordingly. In every college there are certain options allowed and the srudent can therefore shape his course a good deal according to his inclinations.
We are not in a position to say tow the professors gencrally are paid in Dalhoisic College but we notice that in the case of Dr. Schurman, recently appointed to a chair in that institution, he is allowed a fixed salary of $\$ 2,000$ a year, with class fees additional. If this is the system adopted in Dalhousie generally the management have set an example which ought to be generally followed.

## PRIVATE AND PUSLIC SCHOOLS.

The Minister of Education has this year taken the important step of giving to Pickering College, a purely private school, the right to hold within is walls the ordinary high school entrance and intermediate examinations. It was only to be expected that a new departure of this kind would croke some hostile criticism, but we feel confident that in the long run public opinion will abundantly endorse the action taken by Mr. Crooks. We would so further and express our earnest hope that other private schools and colleges will follow the example set them by the management of Pickering College and apply for the same priviicge.

The apprehensions felt by those connected with the provincial high schools lest this recognition by the Department of the work done by private schools should affect public institutions injuriously, found expression at the teachers' convention held recently at Uxbridye, where a resolution was unanimcusly adopted disapproving of the Minister's action. That resolutic.. states ( 1 ) that what has been done "is a departure from the spirit of our educational system and the manner in which it has hitherto been interpreted, ${ }^{\prime}$ and.(a) that it is likely to lead to great abuses, to injure the reputation and finances of the national schools, and "to introducc into our school system:other questions than education." It is difficult to gather from this resolution the precise nature of the evils apprehended. That the departure is a new one is not a sufficient ground on which to condemn it, for all progress is the result of new departures. Abuses in connection with these examinations come to light from time to time when they are held in high school buildings, and the Minister will of course have precisely the same kind of control over them in private schools as he hasin public schools. Whether the examination will be kept free from abuses or not depends almost entirely on the presiding examiner, and as the building in which the examination is held is a mere incident of the situation, the fear of abuses must be considered as without sufficient grounds to justify it.

It is easy ${ }^{1}$ to understand why an cnterprising principal of a private school should want to have the departmental papers
sent to his institution. They will be a means of enabling him to satisfy both his pupils and his employers as to the character of the work he is doing, and they will tend to broaden the educational horizon of all who are engaged in it. If the principal of Pickering College will only apply to the universities which have local examinations for a similar privilege he will set an excellent example. On the other hand it is only fair that if the Education Department takes cognizance of such schools by sending them papers and appointing presiding examiners, it should also ask them to submit to departmental inspection. Well conducted schools should welcome such a change for other reasons, and more especially because it would be a means of enabling the public to distinguish between good institutions and shams.

## DEPARTMENT IL EXAMINATIONS.

At the recent teachers' convention for North Simcoe the subject of departmental examinations came up for discussion in connection with an able address by Mr. Spotton, headmaster of the Barrie high school. A conmittee was appointed to consider the question and after deliberation it reported strongly in favour of the proposal to separate.the intermediate from the public school teachers' examination and to restore the inter mediate to its original position as a a promotion examination.

Those who have followed the course of educational changes during the past few years will remember that the combination of the two examinations above referred to was an experiment and that it has never since been regarded as other than a doubtful one. Theopinion of practical men everywhere is now against the arrangement being continued, and, as usual, the Minister of Education is found quite abreast of public opinion in the matter. In the course of his address at the closing of the Ottawa model schoola few days ago heannounced that the two examinations would hereafter be separate, an announcement which will be universally satisfactory to teachers.

The educational authorities of Manitoba have placed the new provincial normal school under the immediate supervision of Mr. J. B. Somerset, the inspector of schools for the city of Winnipeg. This is a judicious arrangement especially where, as in this case, the inspector is known to be thoroughly- experienced and efficient. It brings the normal school into direct contact with the public school system and keeps up between them an intimate relation which cannot fail to have an excellent effect on both. We would in this connection, call attention to the advertisement in this number of the journal for a headmaster for the new normal school in Winnupeg. What is wanted is a teacher with the highest professional attainments rather than one with a high reputation for classical scholarship. If both qualifications can be secured in one person so much the better; but as the promary function of the school is to train teachers, not to produce scholars, professional efficiency should be made an indispensable condition and should never be subordinated to mere literary or scientific attainments.

## HIGH SCHOOL INSPECTION.

The article on this topic, in another part of this issue, should be read by all who are interested in keeping up the status of secondary schools. Hasty inspection must needs be cursory, and cursory inspection is of very little value. It is unnecessary to dwell on an aspect of the case which has been so well discussed by the writer, and which will appeal strongly to every teacher. On another point "Head Master" might have said even more than he has done and yet kept studiously moderate. The normal schools of Ontario stand in need of departmental supervision as well as the high senools, and the task of inspect. ing them falls maturally and properly to the high school inspectors. As a matter of fact one of these officers has during the past few weeks spent a good deal of his time at this very work and this has been done at the expense of high school supervision. The work of high school inspection proper would, if thoroughly done, occupy more than the time of two inspectors, and when to this work is added their ex-officio duties as members of the Central Committee of the Department and the work of normal school supervision it is clear that the question of appointing a third inspector cannot be very long postponed without injury to the cause of education.

The announcement has recently been mate that Dr. Schurman, who has for some time held a chair in Acadia College, Nova Scotia, has accepted a new chair endowed by Mr. George Munro in Dalhousie College, Halifax. His subjects will be English literature and metaphysics, two fields of inquiry. in which he is especially proficient, and which are understood to be congenial to his taste. To all appearance Dr. Schurman has a brilliant career before him. He is a native of Prince Edward Island and is only some 28 years of age. While a student of Acadia College he took the Gilchrist scholarship in the University of London, and spent the next few years in Britain and Germany, graduating with distinction in both countries. Since his.return to his native country, he has been engaged in teaching in Acedia and now transfers his services to a somewhat wider field. It is alike gratifying to record the liberality of Mr. Munro, a Canadian who has made a fortune by publishing in New York, and the appointment of Dr. Schurman, a Canadian who has superadded to his home training the best culture of London and Berlin.

A movement has been set on foot in the United States to provide by subscription a memorial for the poet Longfellow. The original idea was a one-dollar list, but wealthy men are contributing larger sums and it is therefore quite likely that a considerable amount will be realized. It is to be hoped that, as he has already reared foi himself a "monument more enduring than brass," the bulk of the money raised will be devoted to the foundation of some chair or institution for the instruction of the people-a project in which he would himself, if alive, take a deep interess. A statue, whether in bronee or marble, is evanescent, but the name of Lougfellow attached to, say, a chair of literature in H़arvarḍ would be enduring.

In the list of contributors to the American Journal of Mathe matics, edited by Prof. Sylvester of John Hopkins University, appear the names of Prof. Loudon of University College and J. E. Glashan, inspector of public schools for the city of Ottawa. Any Canadian may well feel honoured by being reeognized in this way.

The many friends of Mr. J. B. Somerset in Ontario will learn with pleasure that he is winning golden opinions from all parties in Winnipeg. Most satisfuctory proof of the good-will of the school board has been afforded in the shape of a considerable increase of salary, and at a recent meeting of the city teachers a resolution was unanimously carried approving of Mr. Somerset's efforts to put the schools in as thorough a state of efficiency as possible, expressing their high appreciation tof him as a public officer and a gentleman, and congratulating the school authorities on having secured his services.
In the forty-fifth annual report of the Massachusetts Board of Edacation there appears a letter from Dr. MrcLellan, hish school inspector for Ontario, giving a brief description of the the system of public school supervision in vogue in this province. The letter was written at the reguest of the secretary of the Board, who describes it as an "interesting and clear statement," and adds :-
"I gladly publish this paper in connection with the amnual report of the Board of Education, hoping that at no distant day there will bo cstablishou an equanly comploto and officient system of school suporvision in this Conmonvealth."

## Geograplical ghotes.

## THE sUB-DIVISIONS OF ONTARIO.

The province of Ontario is subdivided by law in different ways for different purposes, and as this state of affaiss tends to create a certain amount of confusion wo proposo to collect in one place from the various Acts of Parriament such information as will be most likely to give teachers a tolerably clear idea of the internal political geography of this province. There is the more need for so doing from the fact that in some of the maps published for use in schools mere electoral divisions aro represented as counties while real county municipalities are not clearly indicated.
The division of each province into districts for the election of members of the House of Commons is under the control of the Dominion Parliament. The division into districts for the election of members of a Procincial Assembly is under the control of the Provincial Legislature. As there is of necessity a rovision of the electoral districts after each deceminal census for Dominion purposes, and as the Legislature of Ontario has not adopted the electoral districts as arranged by the Dominion Parliament, it is not surprising that the oxistence of two sets of districts within the same area should lead toconfusion, especiallyas there are districts for municipal and judicial purposes which coincide with nethor of the others. It is not proposed to give hore any account of electoral districts as they are liable to frequent changes; it is of more importance to know how tho provinco is divided into municipal and judicial districts.
The following is a complete list of the county municipalities with their county towns:-

```
Brant-Brantford
Braco-Walkerton
Carleten-Ottava
Duflerin-Orangeville
\(\left.\begin{array}{c}\text { Lennor and } \\ \text { Addiugton }\end{array}\right\}\) Napance
Lincoln-St Catherines
BIiddesex-London
```



The following county townsare citios, each city being for judicial purposes purt of the county in which it is situated, though for mumicipal prorposes it is separate:-

| Tormato | Kingston |
| :--- | :--- |
| Hamilton | Ottawn |
| London | Brantford |
| Gutlph | St.Catherines |
| St. Thomay | Belleville. |

Soveral towns, besides thesécities are separated for municipal purposes from the counties in which they are geographically located.
There is one provisional county, Haliburton, which is sot apart for mmicipal and school, as well as judicial purposes. It embraces 23 townships immediately in roar of, and almost coterminous with the northern limit of the county of Peterborough. The municipal capital is Minden.
Haliburton differs from the so-callod "districts" in having a county organization, though only a provisional one. The highest municipal unit throughout the wholo of the districts of Muskoka, Parry Suund, Nipissing, Algoma, and Thunder Bay is the township or village. The township councils in these districts are clothed with special powers and discharge some of the functions that in other parts of the province are perf irmed by county councils.
The territorial district of Mruskoka extends from the Severn on the south to the middle of Lakes Joseph and Rosseau on the north, and from the Georgian Bay on the west to. Haliburton on the east. Its capital is Bracebridge.
The districtof Parry Sound has for its eastern limit a continuation of the eastern limit of Muskoka to the east end of Lake Nipissing, and it oxtends northward to that lake and French River. Parry Sound is its capital.
The ristrict of Ninissing extends eastward from Parry Sound till it abuts on the county of Renfrew and the upper Ottawa, and includes all the territory north of Lake Nipissing and French River and east of the moridian of the mouth of that river.
The Thunder Bay distric* ' 1 cludes the townships lying immediately around Thunder Bay and the capital is Prince Arthur's Landing.
The district of Algoma embraces for all except certain specified purposes the smaller district of Thundor Bay, and besides it, all . that part of the province lying west of the meridian of the mouth of French River, including the Manitoulin, St. Joseph, and other islands not attached to counties previously organized. The capital of this district is Sault Ste. Marie, where the judge of the whole district resides.
Besides the judge of the district of Algoma there are Government stipendiary magistrates with extensive civil and criminal jurisdiction at the following points:-

## Disputed Territory west

of Lake Saperior
Rat Portage
Hadron Say District
Thunder" "
Parry Sound ""
$\frac{\text { Mankloka }}{\text { Haliburton " }}$

Moose Factory
P. A. Landin'

Parry Sound
Bracelsidige
Minden ${ }^{\prime}$

Stipendiary magistrates in theso districts aro empowered to hold division courts and exerciso some other functions that in oldor parts of the province develvo on county judges. Matters beyond their jurisdiction are settled by the judge of Algoma, by the county court judge of Victoria to whech Haliburton is for judicial purposes attached, and by the judge of Simeoe to which the districts of Muskuka and Parry Suund are attached in the same waty.

IISCELLANEOUS.
a new arographical temm. -by a. h. o.
Miny of the readers of tho Journal have no dubbt felt the want of a mane for one of the four classes into which lakes have been divided. We have names for (1) lakes which have an inlet but no outhet, viz., "Lakes of reception"; for (2) those which havo an outlet but no inlet, viz., "Lakes of omission" ; and for (3) those which have both influents and effuents, viz., "Lakes of transmission." But, for lakes which have noither an inlot nor an outlot, we have, so far as I know, no name. I suggest to my fellow-teachers to call this class, "Lakes of anclusion." The names of the first three classes denote the offices which they perform. The name proposed for the fourth class does the same for it. Luthes of the first class reccice water conveyed to them; those of the second emit water from their own supples; thoso of the third receive and emit, i.e., transmit water, which has been conveyed to them; those of the fourth class simply inclose the water within their borders.

## Athathomatical Bepartment.

## ELEMENTARY ARITHMETIC.

During the past months we have devoted a good deal of space to intermediate and university work. The struggle is over tor another year with the mumerous readers of this dopartment who have been actively engaged in preparing for the various examimations. The die is cast; and before our next number reaches them wo trust that most of them will be rejoicing in their success.

In the present number we propose to hold a quiet chat with that large ci:cle of our friends who are for many months of the year ieaching vemantany arithmetic. It is almost impossiblo now to advance anything strikingly original on this topic; and were it possible it would not probably be so useful as the repetition of important watters already well established. Leaving all prejudices aside, and looking at the matter from a practical point of view, can any one imagine why the multiplication table should be taught to 12 times 12 and there stop "forever and forever"? Children in the second reader learn it thus far. Is it not alien to the wholo spirit of our system to stop there, is it not absurd to think of a merchant fumbling for his pencil before he can find the price of 19lis. of butier at 17 cents a pound? Experience generally teaches business men the necessity of knowing the table up to 16 or 20 times at the very least. The pupils of the third class could very easily learn the table up to the end of 16 tames by spending five minutes only, say twice a week during a single term, especially if they wero required to apply the table as soon as learned to their ordinary wurk, and thus do away with the clumsiness of multiplying by 13 and higher numbers with ticu lines of figures instead of one line. It is equally easy to push tho table on to 20 times 25 in the fourth class. As a preparation for the duties of after lifo, for the everyday work of the bank, the farm, the shop, the school, we ask dehberately what other phece of mormetion acquired in tho same time can be so convenient and so serviceable to the possessor? The first requisite of success in rapid calculation is, we believe, efficient drill manental problems. Now the extended addition table and its counterpart the extended multiplication tablo furnish mattor for this drill at once the most clementiry, the most natural, and by far
the most practically usoful to the pupil. Understanding division to be the revorse of multiplication, all our preceding remarks apply to division. It saves vast amounts of thme and of drudgery to tho more advanced pupil to be ablo to multiply, divido, or cancel with factors as high as 23 or 25 .

In this connection wo very maturally insist on the pupil's learning at the earliest momont to test his multiplication and division by , "casting sut nines." It requires but a lesson or two to mako pupils fof famdar with this method that long lines oithor of multiplication or division can be satisfactorily tested in a few soconds, and the certainty thus gained is a poworful stimulus to further progress. - Pupls in tho second book loarn to apply the test in one short lesson. Why should they not leam it is soon as they havo fairly understood the four simple rules? Aro wo so extremely sonsitive on that bugbear, cran, that we are afraid to communicate the most useful information simply becauso tho pupil cannot yet understand the reasons of the process? If so, lut us nover moro teach subtraction until our beloved littlo proteges cann wholly comprohend the reason for "carrying." Is it not patent that in very many cases wo must first teach the now and then the why, and that this is not only tho simplest but also in such cases the shortest plan. In our hamblo opinion it is injudicious to attempt to carry out the method of discutery in evory particular case even in mathematics. The method of instruction has its appropriato spherc.
Speaking of "carrying" in subtraction, reminds us that we havo seen tho most satisfactory results obtained by teaching subtraction as a certain kind of addition, so that the pupil is not brought into contact with any new principle of "carrying" difforent from what he has already learned in addition. Thus, instead of saying 5 from 7 leaves 2, it is possible to state the question, 5 and how much makes 7 ? In the case of long lines of subtraction this way of putting it avoids the learning of a now rule; subtraction can be done as soon as addition is learned.

Example: 6325464
805493
542997 $\overline{1}$
3 and $?$ one are 4. 9 and $?$ seven ars 16 ; 5 and 7 nine are $14 ; 6$ and $i$ nine are $10 ; 10$ and $?$ two are $12 ; 3$ and ifener are $13 ; i$ and $i$ five are 6. The ? indicates the neental problem to be solved. Let the pupil prove the cperation by addition, 3 and 1 are 4,9 and 7 are 16, $\overline{0}$ and 9 are 14, 6 and 9 are $15, \mathcal{S c}$., and no mystery hangs over the operation, which is perhaps more than can be asserted of the common plan of "borrowing and paying back fgain." This method also enables the pupil to do long division very rapidly end with one half the usual figures, by combining multiplication and division.

Example:
4064) 584388971 (13887
$15: 98$
36069
35577
30651
2209

We say once 4 and 3 nine are 13 (one to carry, 2 set down) once 6 are 7 and $?$ seven are 14 ; once 0 is 1 and ? fire are 6 ; once 4 and ? oue are 5. Bring down 8 . Three times 4 are 12 and $?$ six are 18; threo times 6 are 18 and zero are 19 ; thrce times 0 is 1 and 3 six are 7 ; three times 4 are 12 and three are 15. Bring down 9, \&c. Pupils learn this plan in one lesson, and it crenduces to accuracy and rapidity as experience abundantly proves. It will be observed that the operation admits of being tested by "cisting out nines" just as well as when the subtrahends aro written down.
Wenow offer a fewhints on the tables of weights and measures. The most obvious remark of amy business man on upening a common school arithmetic would be, that a large part of what is usually given under this head is of no practical use in the every-day business of life, and ought at least to be deferred to the later stages. We are apt to forget that less than one half of our Canadian boys and girls ever get beyond the third bwok. Let us teach to this vast multitudo who are destined to rereive no further school advantages, all the most useful things we can, that is as few useless things as possible. With such a book as Kirkland and Scott's elementary arithinetic in in their hands junior teachers are sure to succeed if they earnestly realize what thoy should aim at, viz to teach well the most simple and useful parts of arithmetic to this majority of our children before their school days are finished forever, say at the end of the third class. In lung measure, what is the utility of barley corns, furlungs, leaguos, \&c. I 12 inches = 1 fout; 3 feet $=1$ yard; 1760 yards $=1$ milc, is about all that is required in practical life. Again, in square measure it is practically most useful to know that 4840 equare yards
$\Rightarrow 1$ squaro aore, and $1210=a$ rova, and 160 square rods $=1$ acre. In most of our text-books wo find in the tables a collection of old fossil romains that have drifted down to us from the ago of kilderkins, chaldrons, futhers, angels, otc. Thoy seem to us wholly out of place ip our junior classes, having no bearing on actual business as now conducted, and serving to load th, "mighty ton years" with old rubbish instead of precious sced.

The use of fuctoring in holping to shorten the mechanical work of arithmotic cinnsareoly be exaggorated, and tho sooner young pupils can be taught to apply it the bettor. Thus, in the fullowing question a little factoring actually abolishes the whole of the mechanical work:-A speculator borrowed $\$ 5000$, and immediately invested it in land. Six months aftorwards he bold the land for $\$ 7500$ on 12 months credit with intorest. Find the speculator's profit, supposing he pays back the 85000 in 10 months after borrowing it, and taking all moneys worth $6 \%$.

Sum reccived for land $=87000$ ( 1.00 )
$"$ paid back $=80000(1.09)$
i. e. profit $=\$ 7500(1.06)-5000(1.03)$

$$
\begin{aligned}
& =7500(1.06)-5000(1.06)-5000(\cdot 03) \\
& =2500(1.06)-2500(06)=82500
\end{aligned}
$$

The following illustrates a similar useful application of factoring. Find the area of a triangle whose sides are 760, 950, and 570. Applying, the ordinary rule.

$$
\begin{aligned}
\text { area } & =\sqrt{(1140 \times 380 \times 190 \times 570)} \\
& =100 \sqrt{(114 \times 38 \times 19 \times 57)} \\
& =19 \times 1900 \sqrt{(6) 2} \times 1 \times 3) \\
& =19 \times 1900 \times 6=8 \mathrm{cc} .
\end{aligned}
$$

Closely connected with the preceding are the contracted methods of multiplication and division of decimals, and the method of dividing hy successive factors and writing down the correct remainder.

We have often heard complainta against the ordinary rule for contracted multiplication, inasuuch as a littlo uncertainty occasionally arises as to where the decimal point should be phaced. The following obviates that difficulty and can be applied by young pupils. First make the multiplier a whole number by removing the decimal point to the right. Romeve the decimal print of tho multiplicand as many places to the lor, putting in cyphers if necessary. Count off towards the right from the decimal point cf this multiplicand as many figures as arerequited to be correct in the product. Under the last of these Gigures place the first figure of the multiplier reversed. Now multiply each figure into the one immedintely over it, in the ordinary Way, carrying as usual. Lastly point of as many figures as t'ere are from the decimal point of the multiplicand to the first figure of the multiplior. This is only a moditication of the common rule.

## Example: simplify $\frac{390 \cdot 075 \times 5 \cdot 4166}{105} 416$

Using both contracted multiplication and division the operation stands

| 03990750 |
| :---: |
| 66145 |
| 19953750 |
| 1596300 |
| 39907 |
| 23945 |
| 2394 |
| 105416$) 2161629.6(20.505$ |
| 53096 |
| 6016 |

After multiplication the decimal point stands between the 61 and 62, but in the division wo make the divisor a whole number, and hence change the point in the dividend over to the ryht three places. In the division multiply and subtract at once. When the quotient is 0 bring down the 6 as well as the 9.
It should be borne in mind that circulating decimals can be conveniently suanaged either in division or multiplication without the trouble of reducing them to common fractons and then back agan, if we carry out the circle for say five or soven figures and then apply the contracted methods. If we do not get the precise result we can genorally se, what the true circle is in the product or in the quotient as the case may be. Will somo of our friends experiment on a few decimals and confirm what we havg said?

Before we close we wish to refer to the must mportant point we intend to notice namely, the use of the simple arithmetical equation. From the day boys and girls begin to learn written arithmetic it is absolutely necossary to compel them to set down the theory of their
operations beforo thoy begin the mecharical work required to find the answer. Perhaps no single omission docs so much harm to the learner as the lack of proper training in the art of indicating tho work to bo done boforeattempting to execute it. Full and systematic solutions dispel a graat part of the inystery which hangs aboup the subject. In this connection the application of the axioms to the afithmetical equation ars of prime importance. Vory often a little skill in iactoring and in using the equation shorton the work by more than one half. The two examples given hero will illustrato the preceding remarks. A commission merchant sold a consigninent of goods on $3 \%$ commission, and was instructed to :nvest the proceeds in other goods on $2 \%$ commission, both commissions being deducted in advance and amounting to $\$ 265$. Find the proceeds of the consignmeat and the value of the goods.

$$
\text { proceeds }=\text { commission }+ \text { goods }
$$

Now 1st com. $=3 \%$ of proceeds $=3 \%$ com.$+3 \%$ goods
i. e. whole commission $=3 \%$ com. $+5 \%$ goods
add $2 \%$ com. to ench of these equals, and we havo
$102 \%$ com. $==5 \%$ com. $+5 \%$ goods $=5 \%$ proceeds,
i. e. $\frac{102}{100}$ of $\$ 265=\frac{5}{100}$ of proceeds. Nultiply both sides by 20
and $\frac{102 \times 205}{100} \times 20=$ proceeds $=\$ 5106$
$\therefore$ goods $=50406-26 \overline{5}=S 50141$.
By selling out $£ 4500$ in the India $5 \%$ stock © 1122 , and investing the procceds in Egyptian $7 \%$ stock, a person finds his incomo increased by $£ 16815 \mathrm{~s}$. What is the price of the latter stock?

First income $=45 \times 5$

$$
\text { 2nd } "=\frac{45 \times 112 \frac{1}{2}}{\text { price }} \times 7
$$

Hence

$$
\frac{45 \times 112 \frac{1}{2} \times 7}{\text { price }}-45 \times 5=1683
$$

add $45 \times 5$ to both the equals, and

$$
\frac{45 \times 112 \frac{1}{2} \times 7}{\text { price }}=1689+2: 5=\frac{1575}{4}
$$

Divide both numerators by $45 \times 7$, and we get

$$
\begin{aligned}
& \frac{1121}{\text { price }}=\frac{0}{4} . \quad \text { Multiply both sides by } 4 \text { prico } \\
& 450=5 \text { price } \\
& \therefore \text { price }=90 .
\end{aligned}
$$

We feel sure from carcful observatign thret it pays handsomely in the end to acenstom learners to put down the whole process, and to use all the symbols with a precise meaning. Here is the proper place to introduce a few words of caution on the abuse of the equation, to show the absurdity, or, at least, the bad taste of writing such expressions as

$$
\begin{aligned}
& \frac{5}{10}=\$ 80 \therefore 1=256 \& \mathrm{cc} \\
& \text { instead of } \\
& \frac{5}{16} \text { amt. }=\$ 80 \therefore \text { amt. }=\$ 265, \mathrm{\& c} .
\end{aligned}
$$

Fowever we must cease for the present. We wish all our readers much onjoyment of the long holidnys, and if we have opened a small chink by our previous rambling remarks, reflection and experience will no doubt reveal the extensive landscape that lies beyond.

Several answers to correspondents are held over till next issue.
Spucial Articles.

## PHYSICAL DEVELOPMENT AND SCHOOL WORK.

(Frrom a paper read by C. D Curry, $\overline{\text { B.A., }}$, D.D., before the Fast Viztoria Atsocia (tion.)
${ }^{1}$ The former part of Dr. Curfis paper was devoted to showing the relation between tho physical development of chldren on the one hand and rood food, suitabie elothing pare ari and excrecke on the other. The latter part which is given below deals more particularly with echooi-work.-ED.]
Wo now enter upon the second and more important portion of our subject, viz: the influence of school work upon development. Heretofore we have taken no notice of the influence of the brain and of intullectual excrtion on the growth of the body. The bram as
yoll are aware 18 the seat of the nervous aystem. To it is entrusted the guardianship and direction of all the processes of life whotherthe involuntary ones suchasthosoof breathing -thoretion of thohoart, or the voluntary ones, that ia those contrullod by the will. It may be considured as a contral telegraph oftice over whose wites the norvous messages are sont to and recoived from ail parts of the body. More important than this, it is also the organ of thought and the soat of our intelluctual life. It grows and is developed with the body and partakes of all its changes, and as in childhood the body is suft and tender, su the brain of the child is a crude suft pulp, undecided in type, pliant and impressible. As the years roll on, and when subjected to proper und not undue exercise it increases in strength and becomes able to stand the pressure of adult life. But if in early youth it is subjected to sovere orlong continued strain not only is at itself likoly to bo permanently injured in power and capacity but the body as well will suffor in sympathy. 'The connection betwo the brain and the body is so intimate, and the condition of the une so dupendent un that of the other that " $a$ healthy mind in a healthy budy " is a truism which has been obsorved and quoted for ages. In fact healthy and properly developed minds cannot exist in unhealthy and imperfectly developed bodies, and the converse that a diseased body accompanies a discased brain holds equally goud.

Accordingly, as the $t$ ain plays so important a yart in the human economy; it becomes us then to consider carefully, not what it will stand in tho way of pressure, but what means are pest adapted to ensure its due cultivation and, at the same time, to ensure good, strong, and healthy bodies. The body is, aftcr all, the source of power to the mind, and if its vital force is weakened in any manmer the mind must sulfer tov.
The questic $n$ now presents itself. Does our educational system in any way interfert with proper physical development? And in reply I would say that unless in judicious hands it is vory apt to do so. Xear by year, with all its puraphernalis of prumotion, entrance, motermediate, prmary, and tinal examinations, it is becoming more and more of the hot-house or forcing order. Cram is, in many instinces, the order of the day, and this forciny process is attended in many mstances with positive injury both to the body and mmd. Every student can recall instances which have come to his own knowledge in whicle either body and brain has given way, and if in the case of advanced youth such consequences result from excessive mental application, in carlier youth how much greater the danger of it. This is seen in amarked degree in the case of precocious children in whose case the desire for advancement has been oncouraged rather than repressed, and who, when a certain degree of mental development is reached, seem to stick there. These are generally found to possess little vitulity and are usually the ones who sink under the assaults of disense, their powers of resistance being weakened by their exceseive mental application.
Injudicious teachers uided ar 3 abetted and often forced by still more injudicious parents also do harm in prescribing oxcessive homework. In many instances it is positively pamful to meet boys and girls coming from school at the hour for dismissal carrying a slate, exurcise book, and a small library of text-books; while it may be allowable in the case of the elder pupils to give a little homework, yet leading educationalists and physiologists are alnost unanimously of opimon that the $\overline{5} \frac{1}{2}$ hour limit of brain work should in no case be exceeded in the case of the senior pupils, while for the juniors it is considered to be too much. The close confinement in a more or less impure atmosphere, the enforced quiet, and the necessary restraut are both unnatural and injurious to tho child's lealth, and mind and body both suffer.

Allow me to finish with the following quotation from Herbert Spencer, whose work on "Educati in," to which I must confess myself largely irdebted, should bo in the hands of every teacher:-
"Considering the regime as a whole its tendency is too exacting, it asks toso much and gives too little. In the extent to which it taxes the vital energies it makes the juvenile life much more like the adult than it should be. It overlooks the truth that, as in the infant, the expenditure of vitality in growth is so great as to leave extrensely little for cither physical or mental action, so throughout childhood and youth growth is the dommant requiremont to which all others must be subordinated.
"Perhaps nothing will so much haston tho time when body and mind will both bo adequately carod for as a diffusion of the beliof that the preservation of health is a duty. Fow soom conscious that there is such a thing as physical morality. *** The fact is that all breaches of tho laws of health are physical sins. When this is generally seon, then, and verhaps not till then, will the physical training of the young recuive all the attention it deserves."

## SKEAT'S ETYMOLOGICAL DICTIONARY.*

Nothing but a careful study of, and a lengthened acquaintance with this admirable work will aftord the English scholar an adequate ider of its truo value to the student. Professor Skeat takes vary ligh rank in the rupidly growing school which has done within the past fow years so much for scientific study of the English language. It is matter for amazemont that the work of studying English as the ancient languages have for generations boen studied, has been so long postponed and that it should have boen bogun in Germany instead of in England. The works of Maotznor, Koch, and Edward Mueller have done more than show Englishmen the way; they aro still the great magazines of information on early English, and even Professor Skeat is constrained to say that "if the writers of some of the current 'Etymological' dictionaries had taken Mueller for thoir guide, thoy might have doubled their accuracy and halved their labour." Those who cannot possibly have access to the works of these German philologists in the original, and those who are deterred from using them by the number of errors in the translations, will hail with delight such a work as this by Prof: Skeat, which, compared with the voluminous "Woerterbuch" of Maetzner is a perfect multum in parvo.
It would be absard to attempt to give here any detailed sketch of the plan of this dictionary which in part form is already to some extent familiar to many students and teachers of English. A few extracts from the preface will suffice to give an idea of the generad charactor of the work:-

Each article begins with a word the Etymology of which is to be sought * * * After the word connes a brief definition merely as a mark to identify the word. Next follows an exact statement of the actual (or probaile) language whence the word is taken, with an account of the channel or channels through which it reached us. Thus the word 'Canopy' is markod '(F.,-Ital.,-I., -Gk.) to be read as, French, from Italian, from Latin, from Greek; that is to say, the word is ultimately Greek, whenco it was borrowed, first by Latin, secondly by Italian (from the Latin), thirdly by French (from the Italian), and lastly by English (from French). * * * After the exact statement of the source follow a few quotations. These are intended to indicate the poriod at which the word was borrowed, or olse the usual niddle English forms. * * *

A chief feature of the present work, and ono which has entailed enormous labour, is that whenever I cite old or foreign words from which any given English word is derived or with which it is connected I have actually verified the spellings and significations of these words. * * * In the case of verbs and substantives (or other mutually related words) considerable pains have been taken to ascertain and to point out whether the verb has been formed from the substantive, or whether, conversely the substantive is derived frons the verb. This often makes a good deal of difference to the Etymology. * * * It is also proper to state that with many articles I am not satisfied. Those that presented no dificulty and took up but little time, se probably the best and most certain. In very difficult cases, my usualrule has been not to spend more than three hours over ono word. During that time I made the best I could of it and then let it go. I hope it may be underntood that my object in making this and other similar statements regarding my difticulties is merely to enablo the reader to consult the book with greater safety, and to enable him to form his own opinion as to how far it is to bo trusted.

One remark in Prof. Skeat's preface is worthy of being quoted entire for the the hint it contains to those who feel disposed to write for publication:-

It is common for writers to throw the blame of errors upon the printers, and thers is in this a certain amount of cruth in some instances. But illegibility should also receivo its fair portion of blame; and it is only just to place the fact on record, that I have frequently
'An Vtymological Dictionary of tho Finglish Language. By tho Rev. Walter W. Skeat M.A., Erlington and Bosworth Professor of Anglo-Saxon in the Cniversity of Cam. brilge Now York, Mamillan \& Co. : Toronto, Willing \& Williamson Toronto.
rocoived from the press a first rough proof of a sheot of this work ${ }^{+}$ abounding in words taken from a great many languagos, in whioh not a singlo printer's orror occurred of any kind whatover; andmany othors in which the orrors wore vory trivial and unimportant, and soldom extended totho actual spolling.

A single glance at any page of the Dictionary will suffico to show that this is a vory high tributoboth to Prof. Skeat's caligraphy and to the skill of the printers inte whose hands his copy fell. Eut there is a losson in his romark which contributors to journals and writers of books have much noed to learn. Illogiblo writing is always inoxcusuble but it is nover more so than whon it is intended for the printer. It is hardly necessary to add in the caso of a book printed at the Oxford Olarendon Press that it is a marvol of typography.

One cannot help regretting after perusing such a work as this that so little attention is paid in Canadian colloges to tho study of the English languago. Not even the best works on the subject are specitied in the curriculums, and the amount of time and attention bestowod upon the language and its literature are a more fraction of those bestowed on Latin and Greek. It is to be hoped that the time is near at hand when, at least in University College and Toronto University, English will tako its proper position as one of the most important languages in the world whother for educational or for philological purposes. The more generally such books as Skeat's Dictionary come into use the more widespread will bo the dissatisfaction with the modes of studying English at present in vogue in Canada.

## DR. CRAMP.

Early in June intaresting services were hold at Acadia College, Nova Scotia, in memory of tiv late head of the college, Rev. Dr. Cramp. Among the addresses delivered on that occasion the only one published in extenso, is that of Dr. Rand, Suporintendent of Education for New Brunswick. From that address the following passages are quuted, partly because they convoy a vivid impression of the deceased teacher, and partly because o! the valuable principles which Dr. Rand himself lay down :-.

When Dr. Crainp came to Acadia, there reve friv students at the College. With the aid of Professor Chipman, ine carried on the arts departmunt and the department of theology. $\cdot \boldsymbol{m}$ is was a courageous undertaking; but the following summer Professor Chipman and four students of promise were suddenly removed by the appalling disaster in yonder Basin. That was an overwhelning event io Dr. Cramp, but his braveheart rose above it, and his trust in Godinspired him to do great things for the salvation of the college. During this poriod of intensified trial his labours were prodigious, disclosing a depth of resource, a breadth of attainment and a range of acquasition which were fortunate indeed for the future of this institution. At one time or another, he here taught Latin, Greek, history, mental philosophy, noral philosophy, evidences of Christianity, rhetoric, logic, politicnl economy and geology, besides the various branches of the theological dopartment, including Hebrew and Greek exegesis ; and he was almost equally successful as a teacher in tach of these subjects.

As I cal un before me the every-day contact of students with him in college work, I feel afresh the inspiration of his intense personality. Dignified in mien and bearing, with an oyo to command, his presence in ihe lecture room was stimulating in a high degree. Every student instantly recognized in him a man of original force, and skilled equipment. In his teaching, all truth rested on facts, and roputed facts must be verified before serving as a ground of induction. He taught that lesson with as much prisintency as the leaders in modern physics, but unlike many of them, he set his face steadfastly against every phase of mere speculative knowledge. Clearness and realness wereessentials with him. The over-wise studeit found himself put suddenly and severcly on the defensive, and falt the thrust of a Dam ricus blade. He had a rare gift, which he used in a raro way, of humbling self-conceit and giving pride a fall. Re made his students feel the immense superiority of intellectual honesty to intollectual power. Accuracy was domanded as a quality of prime importance. Ho believed, with Arthur Helps, that the man who is the ucceed must have an almost ignominious love of details. His ovn knowleage was wonderfully minute and exact, and once acquired seemed to be slways at the coinmand of his will. His extraordinary memory was his right srm in the presence of his class. Eis criticisms and comments were keen and incisive, clearing errur to the bone with the inevitabluness of fate. His ftudents were made alive to the truth that correspondenco-be-
tween the thing thought, the thing done and the thing eaid, is a test of a consistent and noble type of life. Every recitation was a discipline in veracity, in careful atatemont, in thinking boforospeak. ing. Desultory reading was soon to bo of littlo avail, and wide roading-that it tended to confusion unloss care was had to read first tho latest standard works in any dopartmont of knowledge. Thore was always a broozy and stimulating freshness in the atmosphoro of his lecture room. It was no cloistor dim. The shouting from the fields of victory in the outside world, whether of peace or war, resounded within its doors, and wore turnod to swift account in animating the facts of history, in which ho was so deeply and accurately vorsed, or in giving vividness or reality to some practical truth of science or philosophy. It was his practice to use the latest discoveries of scionce for the purpose of emphasizing the limitations of oxisting knowledge, and thu vastness of the domains awaiting exploration. He kept the window ; his lecture room wide opon to the world of action, and trained his students to share in thought and feoling, the struggles of the men of tixis age the world over in esmblishing or defending the principles of political or religious liberty. As an extreme illustration of the freedom with which he handled before his classes subjects which were not sot down in the printed course but which he knew were really there, I may instance his exhibition of righteous'indignation when the facts in connection with the so called Jamaica Robellion were laid before the world. Rising in the lecture-room (to the stature of a giant, as it seomed), the lightning flashing from his oyea, he denounced the hanging of men, the flogging of women, and the burning of houses, as the acts of a weak and cowi thly tyrant who was ashocking diegrace to the English name and worthy of death. It was nothing to him that Kingsley, Tennyson, Ruskin and Carlyle ient the weight of their greatnanies in defence of Governor Eyre. Theinviolable rights of citizens of the empire, and the rights of humanity itself, had been outraged. It was therefore, he said, of coucerntothe studonts of Acadia, and demanded their execration. Intelligent, but downright hatred of oppression and tyranny, in every form and in evory clime, and glowing yet intelligent sympathy with freedom and constitutional liberty, were aims most surely accomplished by him in all his students. A logal Englishmso hinself, his students learned from him the force and power of a discriminating and ar dent Christian patriotism. They not only gathored now love for their native land, but felt the noble reverence of his spirit for the institutions of Enyland-reverence not so much for any special formis which they had assumed, as that their existence testified historically to the courage, endurance and moral stamina of the race, and thus gave azsurance of stability and progress in personal liberty and freo government. By means such as these, he sought to iift his students out of the isolation and poverty of mere provincial life and enrich and ennoble them by a consciousness of vital relations as wide as humanity. Within the range of my experience, his educative force in this direction was unique, and altogether remark-
able and immeasurable. able and immeasurable.
Associated with the earnestness of which I have spoken, and penetrating it through and through, was tho not less striking characteristic of his cheerfulness. He was habitually cheerful, and his spirit, like that of all earnest souls, was contagious. The discontented, gloomy student was lifted out of himself by the buoyancy and stimulating quality of Dr. Cramp's animal spirits. There was porpetual sunshine in hin, whose warmth revealod the singular youthfulness of his sympathies. Students divined at a glance, and proved through long years the correctness of their first impression, that ho had nover lost the boy's heart. His freshness and spontaneity; his interest in comparative trifles when these were of interest or protit to his students; his swift transition from mirthfulness to gravity ; his purity of heart ; his genileness and tenderness-these and such as these, so obvious to all, and so perennial in their manifestation, attested the childlik) nature which dwelt at the very centre of his being. Everyune who knew him as a teacher will say that he was, of all men, a stranger to

The hardening of the heart, that brings

> Irreverance for or the drearns of youth.

In college discipline Dr. Cramp ras considerate, but firm and decided. W.a knew well the pirtue of Armold's maxim, "A toacher must not see everything." He expected, and secured in a very high degree, the conduct of Christian gentlemen on the part of all. Ho largely relied on healthy activity, manliness, the sense of honour, and the sense of moral obligation. He deeired to train every student not merely to oboy when'the pressure of authority was upon him, but also to use freedom aright when he became a law unto himsolf.

## HIGH SCHOOL INSPEOTION.

## By a Head Mastor:

Tho changes which havo lately taken place in this dopartment of our oducational work aro turning special attention to tho general question of inspection; and, if one may judgo from provalent opinion, it would seem that furthor clinge will bo considered necessary bofore the quostion is sottled.
The general principlo involved in the appointment of high school inspectors appears to commond itself to all who give the subject any attention. It is generally admitted, moreover, that our schools have been greatly improved through this ngency. As long as high schools continuo to recoive legislative aid, it follows, as a matter of course, that the government shouid have some guaranteo that the grant is boing worthily bestowed. But no sufficient guarantoo hass yet been found which oxcludos direct porsonal inspection. It rrould be unreasonable to ask for high schools an exemption which is not claimed for any other institution thus aided from public funds. inspection, therefore, we shall have. The question is, how can we derive the greatest amount of good from these officers?

When wo compare the prosent state of high schools with their cundition prior to the appuintment of regular inspectors, wo cannot fail to bo impressed with the improvement everywhere apparent. That much of this is directly attributnble to the agency reierred to, can hardly be questioned. The changes introduced, from the entrance examination to the completion of the course-while not without some objectionable features-are, on tho wholo, in tho direction of progress and improvement. Our.schools aro working in a course more uniform and advanced, whilo a marked impetus has been given to the entire system. For much of this, I think, we are indebted to our ligh school inspectors.
The opinion is heard in somo quarters, not that we could dispense with these inspectors, but that we must receive from them n gieater share of attention, if any real bencitit is to result 1rom their visits. It is an indisputablo fact that, from varrous couses, tho inspection is sometimes a rather fornal one-a flying visit of two hours in some cases doing duty for a year. Withi some schoons this might possibly suffice ; as a rulo it is by no means satisfaclory. We ns teachers need a kind of assistañee which can bo obtained in no other way than by personal intorcourse with the inspectors. If they are teachers of oxporience, their visits should not only give thein an acquaintance with the school, but it should afford opportunity for some exemplification on tiecir part of that may be regarded as the best metheds of conducting classes. Cntil this is secured, the benefits of inspection will be comparatively limited.
Agnin, it is felt that in the department of physical science the work of the high schools is anything but satisfactory as a rule. To quote from the last roport of Dr . McLellan-"A necessary condition (in caso of colleginte institutes) should be that the sciences-chemistry, butany and plysics-be taught experimentally. The teaching of chemistry now is, for the most part, exceedingly imperfect. The Department should be satisfied, not only that the necessary appliarces exist, but that the sulbjects are thoroughly and practically taught." Mr. Mirling says:- "Scrence-teaching could be made of real educational value as to both knowledge and discipline. The so-called 'scienco group,' as now constituted, is a sham, and injuricus, in my opinion, oxcept in a few cases, rather than beneficin?, to those who pursuint tith tho ideathat they aro learning 'science.':
If practical offect is to be given to theso recommendations, it certainly fullows that the practical work, thus very properly demanded of institutes an lonst, must bo tested bya H. S. inspector; it cannot bo dealt with at the internediate. All this will require moro time than our inspectors can now devoie to it. If our present institutes continue, we shall have in ench of the fourteen a science master qualifed to conduct a class in practical work. We sland have therefore, fourteen classes to Jo examined (at least once a year) in the actual work of the laboritury.
We must all admit the desirability of the course proposed; but it of necessity involves the appointment of a third inspector. If, ${ }^{2}$ tith two, the ordinary work of inspection can barely be overtaken in the jear, it would bo imposibible for them to take the additional
work referred to.

It is no secret that general dissatisfaction provails in reference to corthin features and departmonts of our normal school. A greater degree of offcioncy in imporativoly demanded. I venturo the opinion that mucla good would be accomplished if the limited time now given by the inspectors to these schools was somewhat extonded.
The oxporiment of dispensing with $n$ third inspector was made to gratify the advocates ofrotrenchment in the Legislature, rather thm from a conviction that two inspectors could properly do the work.
Let the third inspector, thorefore, bo restored, and we may thun hopo for an inspection that will be more satisfactory to the Department and certainly moro helpful to tho schools. Time could be nfforded, in that caso, for a thosongh revision and close inspection of our normal schools. Should the additional expense be thought an olstacle, lot the normal school grant (in 1880 amounting to 836,694) contribute a share in proportion to the attention thoy would require from the high school inspectorn.

## OUR SEWING OLASS.

## BY MISS ALYCI FREEMCAN, TORONTO.

Buttons havo a tiresomo way of coming of just when you are in a hurry, have they not, boyar, you often wonder why muther does not faston thom more securely.-Well, perhaps she forgets how strony her boy's fingers are, and how much jorking and pulling each button must endure in the course of a day.
Now would you not like to know how to sew thom on for your-selves-it is not a difficult undertaking, and while the girls are busy with thoir hermming, you might spend a pleasant half hour learning something that will be always useful to you ; for some day you may travel many miles away from home and not having mother or sister near, will find it very conveniont to bo able to sow on all your own buttons. You wrould like to try? then come with very clean hands to-morrow nfternoon, and we will see what we can do.
In tho meantimo wo purchased two yards of the strongest factory cotton. a spool of coarse white throad-needles to correspond, and tro cards of common white bone buttong-then tearing the factory into two-inch strips, considerell ourselves fully equipped.
Tho following afterrioon there was an air of expectation about the littlo fellows, and an unusual dogreo of industry over other lessons, that none might be deprived of their piomised amusement; -much comparing of hands and vigorous rubs of grimy knuckles; many audible whispors concerning the merits and demerits of thinbles.
In due time sowing hour arrived, and having supplied the girls with their hemming together with all the instructions required for some fifteen minutes, the boys were given first a needle and length of thread each, these they wero required to thread and knot, before going further. Though much astonishment was expressed at the persistency rith which the thead would mander around the eye of the needle instead of into it, this was accomplished satigfac-torily-if the colour of the thread be not taken into account. Next they wove supplied with a strip of cotton each, and alown how to turn down and tack, to prevent fraying: with soine patience and infinite pains on the part of the bnys-who would tack the material to therr fingers, only discovering their mistake as they advanced ; -this was also completed. Thei came tho real work of sewing on buttons. Certain it is that nover were buttons so securely fastened bofore. Through and throuyh the thread was passed, until the much-tried buttons refused to bear any more, and deliberately split in twi. . Earnestly the boys worked-placing their thumbs orer the drillings of each button, to hold it in pusition, and hunting vigorously with the needle on the undor side to find an aperturo - sometimes it was found too suddenly; tha effect was a quick removal of the thumb to tho mouth, and a whiapered but hioartfelt exclamation. One boy used his slate frame as a stretcher, and fastening his strip of cotton tirmly across it, triumphantly pronounced it "the boss. way,"-and again, whon the hands grew warm, the thread black, and the needie sticky, the top of the desk was used as a forcing machine, to press refractory needlea into the already well-filled drillings, and great surprise expreased when the needle snapped in two.
But despite these drawbacks the work was accomplished,-if not with skill, at least with right good will; and no lady, versed in all the mysteries of dainty fancy stitches, could be as proud of her finest production, as we were of the renulta of our firt experience in seving on Zuttona.

## THE KINDERGARTEN.

[The following atatement of the chief objects of tho kindorgarten is taken froin the report of Mr. James L. Hughes and Mr. E. P. Roden to the Toronto public school board on their return from an inspection of tho St. Louis public kindergartens, - ED.]

## thi objucts of the kindsmariren.

The objects of the kindergarten may best be brielly atated in the words of its illustrious founder Frocbel:-"To take the overaight of children before they are ready for achool life; to exert an influence over their whole being in correspondence with its nature; to etrengthen their bodily powers ; to exercise their senses ; to employ the sraknaing mind; to make them thoroughly requainted with the world of nature and of man ; to guide their heart and soul, in a right direction, and to lead them to the origin of all life, and to union with Him."

Wo have become so accustomed to regard the function of the achool as limited to the cultivation of the intellect alone, that it is diffioult to form a juat eatimate of the real value of a system which trains and dovelope the entire being, morally, mentally, phynioally, and socially. It will be quite impossible to give an explanation in detail of the methode employed in the kindergarten to accomplish the work outlined by Froebel. It took him thirty yearn of constant study to complete the system; and it requires at leant a two years' course to become a proficient kindergartener. It may be of service to atate, almo, that the kindergarten in not a school in the ordinary acceptation of that word. It is not a place to teach reading, writing, te., but oonsints chiefly of practice with 'gifte,' balls of different colours, cubem, spheres, cylinders, squares, trisnglea, \&e. ; 'occupations,' weaving papor mata, cutting and pasting paper patterns, paper folding', interiacing, atick work, alat work, peas work, moulding with clay, perforating paper, worated work, drawing, \&c.; gamen, plays, and uxercise songs. By means of these elements Froebel arranged a system which reachen effectively every part of the nature of the child, and promotes ita vigorous and healthful growth.

## moral training.

If Froebel had designed to accomplish nothing more by the kindergarten than the development of the moral and religious instincts of childhood, hin work would ultimately have become an essential part of all national syatem. I education. There is no other part of his system that tr she thoughtful mindso clearly reveals the comprehenaiveness and philosophio basis of his methods, and their wonderful adaptation to the nature of the child, and the laws of its growth. Every one of his remarkable songs, every one of his storien, every one of his games, and every one of his occupations, gives incidentally a practical direction to the moral natures of the children. There is in the kindergarten no sermonizing to children who are not listening, no theorizing about abstractions which they cannot underatand, no weak sentimentality, but a genuine acting out of the best tendencies of human nature.' The child is made to occupy, in a way that is real to him, every relatiouship to nature, the family, society, his country, and his Crastor. He practices in his gamee and plays those virtuen which form the only sure foundation for the family and the State. He acta submisuively to his parenta, lovingly towards his brothers sad sistors, honourably with his neighbours, kindly to the poor, arid tenderly to the aged. He leurpa to be gratoful for benefits, to respect honest work, to know that work is an advantage to the individual and the community, to acknowlodge that labour should be justly rewarded, to destroy nothing, to waste nothing, to submit to congtituted municipal and national authoritiey, to give hearty approval to good actions, and to look with just indignation on mean and ungenerous conduct, to ro-
strain his ovil tendencies, to be unselfish, to control his tastos even when they are pure and good, es he cannot get everything he dosires, and to recognize God, throygh His works, as the Oreator,nnd as the central power of the universe, the source of knowledge, of love, and of blessing. It is quite impossible to 'realioe, without a clowe and extended examination of a genuine kindergarten, how a child can be placed in such on variety of circumstances as to make it necessary for him to develop incidontally, without a conaciousness of the process, all the better portions of hia nature, and to praotiso the porreot moral code for tho holite, suciety, and the State. That Froebel was able, after even thirty years' incessantstudy, to found a systom which accomplishes this, conclusively entitles him to an honoured place among educational reformers.

## eaybical cultere.

The physical benefits conferred by the kindorgarten aire second in importance only to those resulting from its moral and religious training. The good effects of this depaitment of xindergarten work are so quickly apparent and so easily recognized that there is in mome places a popular delusion that the kindergarten consists only of a jeries of games and plays. This is a grave error ; but a!though the games, plays, and songs do not constitute the entire work of a kindergarten, they form a most important part of it, inasmuch as, while accomplishing many other , scellent results, they also produce most desirable effecis on the phr sical syatems of the children. The chief of theme cffects are:-

1. By a large amount of marching in time with music they learn to walk properly, a most important accomplishment.
2. As the plays are so judiciously arranged as to call into natural action every part of the muscular system, the result could only be what it uniformly is, harmonious development, and consequently perfect freedom and gracefulneas of action. Thereis no probability that a child in the kindergarten will grow up with good arms and legs and weak loins and contracted chest.
3. The dramatic gesture pructised as a visible interpretation of the thought and sentiment of the songs while they are being sung, leads to a surprising dagree of expreasiveness and appropriatenens in the movements of the hands, the head, the eyes, and indeed, the entire body, while speaking. This is of more importance than at first sight it may appear to be. The skilled elocutionist may thrill his hearers by his toues alone. Vast audiences are frequently moved to tears by the truching gestures of a deaf-mute in reciting the Lord's Prayer. Most people are more deeply affected in a kindergarten by the gestures than by the singing. Dramatic interpretation is to many more touching than rocal interpretation. Either voice os action alone possesses wondrous power of expression, but it is only when they are app opriately united that thought is presented in all its clearness, ana foeling communicated with resistless power. It is $u 0$ light matter, then, for girls and boys to have their bodies trainod ta act in harmony with their vocal organs in expresing their thoughts and sentiments.
4. The general health of the children is improved, and the vigorous growth of their systems promoted. One of the chief defects of the public school system is that both positively and negatively' it interferes with the proper natural growth of the ohild's body. If adequate attention were paid to the development of the body in school, there would be no complaints about over-study. Body and brains should grow together, do grow together until the child gete to school. The kindergarten is unquestionably the best means of remedying this grave defect in the school. The distinctive feature of kindergarten exercine, as well as of every other part of the aystem, is that the be'sefit comet incidentally. The children are not conscious that they are performing calisthenic exercises for the benefit of their healin; they are playing for pleasure. Exercise
taken meroly to improve the health does not bring such advantiges as exercises taken for amusement, or in working under healthful circumstances, so in the kindergarten there are no calisthenics is mere exercises, but the children have to perform tho best exercises of the Grecian, Swedish, and German systems. of calisthenics in playing their games, and when singing their songs. While takiang his exercises the boy is not a boy moving his arms and legs to develop his muscles, but a hopping hirl, a jumping frog, a flying butterfly, a carpenter or other tradesman at work, a farmer mowing or threshing with $a$ flail or sowing grain, a windmill in motion, a ticking clock, ete., etc., always practising the best exercises but never being drilled.

Even the extension motions and balance stops of the British army are practised in their essential paris in the kindergarten, not in the formal and unattractive way in which thoy are presented to the shuffling recruits whom they transform as if by magic into orect and graceful men, but as necessary motions in performing certain plays.

## mental training.

Those who can only gauge a child's mental growth hy his advancement in reading, will have difficulty in appreciating the mental advantages which a child enjoys in kindergarten. Thoughtful people are mpidly learning however, that reading as a school study has very littlo to do with mental growth : in fact, as usually taught, its tendency is to produce mental confusion and dullness. Reading is not taught in the kindergarten. There are some who put on their investigating spectacles, and scrutinizo the lindergarten system to find its mental results, as though thoy expected them all to be immediately apparent, and then, because they cannot find mind nuggets in the only form which they are capable of appreciating, they say they do not exist, and that the kindergarten does not promote mental development. They forget that real growth in nature is slow, and that the preliminary processes of growth may go on for long periods without producing marked visible effects. If themental training of the kindergaiten produced only immediate results, and if its benefits were discernible to every observer, it would not contain sufficient philosophical truth to make it live.

The object of the kindergarten is to expand the mind, rather than to make it a storehouse of facts. It aims to set the mind in action in the exercise of every function of which is capable. The school only attempts to train the mind to remember and reason, often only to remember. The kindergarten calls into play all the powers of the mind, and teaches the chuld to observe critically, to note results, to compare, to conclude for itself. It derelops the imagination, and gradually exercises the will, not accidentally; but incidentally, as an essential part of Froebel's comprelensive scheme. Memory is developed by exorcisc, not by word repetition; the child learns and remembers what a cube is in the same way as it leatned and remembers what a spoon is-by using it. But, while the primary objects of the kindergarten mental training is not to give information, the child really acquires a vast deal of useful knowledge, especially such as will be of value to him in prosecuting the studies of arithmetic, mensuration, geometry, and architectural and industrial drawing. Nor does he need, to wait until he begins the systematic study of these subjects before making a practical uso of the knowledgo he gains. Tro of tho fundamental rules in acquiring knowledge by Frocbel's system are:-1, Children learn by doing; 2 , knowledge should be applied as soon as learned. So the extensive knowledge of form which the child reccives by using his gifts is applied at onco in the various occupations, and through them extended to an examination of all tho objects of nature and art with which he daily comes in contact.

The child also receives a practical insight into the relationships of parts to wholes, and is taught the harmony of form and colour that must be found in corresponding parts of symmetrical objects and designs. This leads to the display of originality by the individual children, which cannot fail to produce graat and lasting benefitboth mentally and morally. It is a grand step in the growth of a human mind when it is convinced that it possesses original power, and ucod not be a more imitator.
industhial tpaining.
Thero is another kind of physical training in addition to that which trains the physique. It is not alone important to a man's well being that he should be strong, active, and graceful ; his hands, the parts of his physical system which he chicfly uses in caming his livelihood, should bs trained while he is very young, before his muscles have become fixed and his fingers stiff. There is scarcely any limit to the development of finger flexibility and manual dextority if it is begun in time and continued systematically. It is a common saying that "a boy's fingers are all thumbs." There is no reason why this should bo the case. A girl's fingers are expert in proportion to the amount of appropriate exercise they get. The boy does not usually play on the piano, or do the various kinds of needlowork done by his sister, consequentily his fingers become thumbs throush lack of practice. The boys have thus been allowed to grow up and enter on the work of life without having any attention paid to the derelopment of hand-skill, except what they receive when writing and drawing. This necessarily prevents their ewer reaching thoir highest possibilities in skilled labour of any kind whatever. The ? idividual and national loss thus sustained are too vast to bo estime.e. .. The early recognition of this lack in Germany, Switzorland, and France led to the establishment in these countries of technical schools for the special training of the hand in connection with various industrial pursuits. The result of this was that in a few ycars England found her manufacturing supremacy passing away, and was compolled to follow the example of her Continental rivals. Thoughtful men have for years been studying this problem, and endearouring to find a remedy for this acknowledged defect in our public schools. This study has led to a proposal to have workshop schools founded as a part of the public school system. There has as yet, however, been no satisfactory plan proposed for the accomolishment of this subject. A more simple and practicable proposition is to have the boys in the junior classes do the same necdlework as the girls in school. This has been tried in Boston, and the new educational code rocontly passed by the British Parliament makes it compulsory in the primary departments of the public schools. So far as I can learn, Toronto was two years ahead of any other place in this matter. Froebel made ample provision for the training of the hand in his system. One of the specific objects in his "finger songs," and in overy one of the 'gifts' and 'occupations,' is the development of dexterous finger porer.

## SOCIAL TRAINTAG.

Closely allied with moral training is the attention constantiy paid to the practice of the courtesies of good society. The home in most cases cannot afford the child the opportunity of associating with a sufficient number of children of his own age to permit the expansion of his social nature. The child needs suitable society, and unless he gets it, important elements of his character make but a fecble growth. The child is to be pitied, howerer rich may be his parents, whose only associates aro adults. It is possible for a child to obtain socicty on the streot, but the risk is too great there Even at school the social intercourse among the pupils is neceasarily confined chiefly to the recesses, and then in most cases is allowed to go on without the presence of the teacher. Froebel saw the evil effects of this, and made ample provision for the draming out of the social instincts of childhood, as well as for practising the recognized rules of politenese, at the table, in the drawing-room, on the street, wherever man meets his fellow-man.

Respectiully submitted.
James IL Huohes,
E. P. Rones.

## Examination Questions.

## COUNTY OF PERTH PROMOTION EXAMINATIONS

Friday, March 3ISt,-1882.

## TIME TABLE.

8:45 А.м.-Opon scalod pareel and read instructions.
8:50 " -Seat pupils and raad to them their numbers.

|  | nntrance 70 ys.s. 3 KD CLaty. | entrancer to 4 mt class. | $\begin{gathered} \text { clirance } 505 x i n \\ \text { CLASs. } \end{gathered}$ | ExTRANCE TO CTI class \& sky, OTII. |
| :---: | :---: | :---: | :---: | :---: |
| 9 A.M. to 11 | Arithmetlc. | Arthmetic... | Arithmetic | Arithmetle...... |
| 11.1113 | Dictation.... | Gcog. \& History | Geog. \& History | Geos. \& Mistory |
| ${ }^{117}{ }^{1}{ }^{\prime \prime}$ to ${ }^{19}$ | Reading....... | " 1 | Orinuar |  |
|  | Geography ... | Dictation.. | Oram |  |
| 2f 110 | Grammar. | Grammar... | Dictation. | Dictation |
| $3{ }^{3}$ II 3$\}$ | - | , | Readiug......... | Algcbra |
| 31 |  |  |  | " |

Eutrance to Sinior Third Clasg.

## writng.

Value 40. Writing will be judged from tho Dictation paper. Slates not to be used.

## DICTATION.

(To be read slobly and distinclly.)

1. Mary gathercd for him branches of willow and hazel twigs and his first production was a pretty little convenient basket which ho offered to the farmer's wife as a token of gratitude. Ho had exactly guessed her taste.
2. Tro mattresses and an carthon pitcher of water.
3. A night's lodging.
4. The weights hung speechless.
5. The discontented pendulum.
6. The princess and half the realm.
7. The opportunity of pursuing a liberal courso of study.
8. The machinery of the steam-engine was defective.
9. The ingonious youth trained young partridges.
10. An unreasonable apprehension of hydrophobia.
11. The captain scized a knife and cut the animal's tail off.
12. Exhibiting, pursuer, appreciate, manozure, asylum, occasionally.
Value-80. Fuur marks to be deducted for each mistake.

## beading.

Third Book, page 44-_"I passed some time__-_forcod upon them."
Value-50. Expression, 15. Fluency, 35. Two marks off for oach error in pronunciation, and one mark off for every other error in fuency, such as hesitation, omission, substitution, miscalling, \&e, \&e. Examiner will please fill in the reading marks on the list.

## ARTTHMETIC.

1. Product, 2796702489; multiplicand, 3456987. Find the multiplier.
2. 

## Dividend, 968959650 $\left.\begin{array}{lr}\text { Quotiont, } & 1957404 \\ \text { Remainder, } & 120\end{array}\right\}$ Find the divisor.

3. What number must be addod to 7869450 to make it cxactly divisible by 8075 ?
4. If 0 lbs of sugar cost 48 cents what will 19 lbs cost?
5. At 2 cents a pound how-many dollars is a ton of wheat worth?
6. If a man carns 89 a weok and pays 75 cents a day for board, in how many weeks will he save $\$ 75$ ?
7. Add together the sum, difference, product, and quotient of the two numbers 4125 and 40501875.
8. If I have as many cents as there aro inches in 9480 chains, how many d. mars have I?
9. A boy who is thirteen-years old now will be 57 years old in what joar?
10. Wellington died thirty years ago at the ago of 83 ; in what year was he born?

Value-100. Twelve marks each for questions answered.

## ORAMMAR.

1. Select the nouns, adjectives, and verbs from the following :"Sweet is tho hour of rest, Pleasant the wood's low sigh, And the gleaming of tho west, And the turf wheron wo ho; When the burden and the heat Of labour's task is o'er,
And kindly voices greet The tired one at his door."
2. Divide into subject and predicate:-

A vast number of lighted candles hung among the branches.
Two of us in the churchyard lie.
My stockings there I often knit.
On this night, a poor little girl walked along the street.
3. Fill up the blanks with suitable verbs :-

The breeze. . . . . . our brows.
Colder and harder. . . . . . the wind.
Buckets of water....... upon the flames.
4. Supply subjects for the following predicates :-
...........is made of paper.
.......... is the flesh of the ox.
...........lay a foot deep on the ground.
........... makes our clothes.
…...........is a man who makes bread.
5. Write not less than ten lines on "Grace Darling" or "The Poor Match Girl."
Values-1, $11 ; 2,8 ; 3,6 ; 4,5 ; 5,10$. Total-40.

GROGRAPHY.

1. How do you know whero the North is?
2. What direction from Stratford is each of the following places : Guelph, Torontu, Mitchell, Brantford, Owen Sound?
3. Name the townships in the vounty of Perth that border on the County of Huron.
4. Name the ten citics of Ontario and tell the counts in which orch is situated.
5. A bloik of wood is thrown into the river Avon; name, in order, the waters through which it floats before reaching the Atlantic.
6. On what line of railway is each of the following places locatod: Chatham, Collingwood, Lindsay, Brampton, Cayuga?
Values-1, $\mathbf{0} ; 2,10 ; 3,5 ; 4,10 ; 5,10 ; 6,10$. Total-50.

## Entrance to cilourth ciass.

wertina.
Writing will be judged from the Dictation paper. Slates not to be used.
'Value-50.

## DICTATION.

## (To be read slondy and distirectly.)

1. The principal Saxon chiefs readily agreed to Alfred's proposal but he had many difficulties to encounter, especially in procuring sailors to man the ahips. * * Alfred, during his eventinal reign, conpiled a code of laws, organized the administration of justico, encouraged the uncful arts, and was the friend and correapondent of the most eminent scholirs. He spent much of his scanty leisure in literary work, translating into Anglo-Saxon some valuable authors.
2. The flowers were extremely odoriferous,
3. Tho temperature of the air was delicious.
4. An ingenious strategem was dovised.

כ. Vigilance, unintelligible, :pparel, repetition, unpalatable, nauseous.
(f. The Indian allies maintained a sharp skirmish.
7. He speedily despatched messengers to his principal friends in tliree adjacent counties.
3. A sortio by the besieged was easily repelled.
3. Aftor many vicissitudes of fortune, he left the scene of his nany trials and misfortunes.
10. A pair of scales, such as are used for weighing, by wholesale nerchants.
Thlue-80. Four marks to be deducted for each mistako.

## HEADING.

Third Book, page 240-"Almost magical_-tomahawk in the other:"

Value-50. Expression 15. Fluency 35. Two marks off for each error in pronunciation, and one mark off for every crror in fluency, such as hesitation, omission, substitution, miscalling, \&c., Nc. Examiner will please fill in the reading parks on the list.

## ARITHMETIC:

1. Find the G.C.M. of 13792381 and 32080621 .
2. Find the least number that will contain 1235192 and 411355 exactly.
3. How many minutes from 8 o'clock on Monday moming till half-past three in the afternoon of the following Saturday?
4. A load of wheat weighs 2 tons; what is it wortla at 81.25 per bushel?
5. The divisor and quotient are equal ; their sum is 8476 and the remainder is the greatest.whole number possible; find the dividend.
6. Which is the heavier, and how much, 1 ounce Troy or 1 ounce A voirdupois?
7. Resolve $13: 288$ into its prime factors.
8. Find the price of 1580 lbs. of hay at the rate of $\$ 16$ per ton.
9. Find the sam of the greatest and lenst of the fractions $\frac{3}{8,} 38$, 4, and 73.
10. Find the sum and difference of $347{ }^{28} 8_{4}$ and 2981 ?
11. If the continued product of $275,37 \overline{6}, 484$, and 196 be divided by ${ }^{\text {i }} \times 28 \times 47 \times 5$, what will the quotient bo ?
12. How many acres, roods, ctc, in 1234567 square inches?

Yalue-100. Ten marks each for questions answered.

## GHAMMAR

1. Analyze the following sentence and parse each word:-

The scattered gleanings of a fesst my frugal meals supply.
2. Give the superlative degreo of each of the following ad-jectives:-Good, little, near, happy, beautiful.
3. Write the plurals of the following nouns:-Story, leaf, joy, woman, society, gas.
4. Make sentences containing the following words:-Pare, deer, pane, maid.
$\overline{\mathrm{j}}$. Write three sentences each containing a noun in the possessive plural.
6. Write a short story of "Daniel in the Lions' Den." Not less than twelve lines.

Values-1, $5+10 ; 2,5 ; 3,6 ; 4,8 ; 5,6 ; 6,10$. Total- 50 .

## GEOGRAPHY.

1. Define Political Grography, Promontory, Peninsula, Volcano, River-basin.
2. Mention the countries of South America, with their capitals, that are paitly bounded by the Pacific.
3. Name the principal tributarics of the Amazon and Mississippi.
4. Name the inland Counties of Ontario, with their county towns.
5. What railways connect Goderich and Amherstburg ?
6. Locate Portland, Port Stanley, Bracebridge, Pembina, Sidney, Philadelphia, Dctroit, Sarnia, St. John, Caraccas.
7. Name the islands and capes on the East Coast of North Aimerica.
Fralues-1, 10; 2, 6; S, 10; 4, 5; 5, 5; 6, 10; 7, 4. Total-50.

## IIISTORY.

1. Give some account of the explorations of Marquette and La Sallo.
2. How often, whon, and by whom has Quebec been taken?
3. What is meant by U. E. Ioynlists, Clergy Resorves, "Family Compact:"
4. Who is the Governor-General of Canada? Who the Premier?

Who is the Lioutenant-Governor of Ontario? Who the Premier? 5. What caused the Rebellion of 1837 ?

Values-1, $10 ; 2,6 ; 3,4,4,4 ; 5,6$. Total-30.

Gntrimuce to difth Clags.

## WRITANG.

Writing will bo judged from the Dictation paper. Slates not to be used.
Value-50.
DICTATION.
(To be read slowly and distinctly.)

1. At first we imagined that it only proceeded from some magazines, to which tho Russians as usual set fre in their retreat. Eager to klow the cause of this conflagration, wo sought in vain for sume one who could tranquillize our restless curiosity ; but the impossibility of satisfying it rednubled our impatience and increased our alarm. In confornity with the desolating plan of the campaign, the ruin of the ancient capital of the Cars had been determined.
2. An immense quantity of valuable commodities.
3. The cellars were filled with sugar, oils, and resin.
4. In this apartment guests were received with imposing cercmony.
5. A symbol of barbarism.
6. Past rows of houses, villas, crescents, and terraces.
7. A band of foreign auxiliaries.
8. Human skeletons and pieces of wreck were disinterred.
9. Unparalleled, assassinated, aggravating, imperceptible, ascendancy, vengeance, infallible, harassing, imitation, despair.
10. The Norwegian Colonies of Greenland, Jacques Cartier at Hochelaga, Curtez in Mexico, The Earthquake of Caraccas, Hermann, the deliverer of Germany, The Battle of Thermopylae, The destruction of Pompeii.

Valuo-80. Four marks to be deducted for each mistake. .

## reading.

Fourth Book, page 89.-"Gentlemen, I commend to . to British troops.'
Value-50. Expression, 15. Fluency, 35. Two marks off for each error in pronunciation, and one mark off for every other error in fluency, such as hesitation, omission, substitution, miscalling, Sc., ©c. Examiner will please fill in the reading marks on the list.

## ARITHMETIC.

1. Find tho least number that will contain 68590142 and 85044059.
2. What part of a mile repreaents the same distance as threequarters of an inch?
3. How much money can be made on 500 tons of coal, bought for 85 per ton of 2240 lbs ., and sold at the same price per ton of. 2000 lbs. $?$
4. What is a gentleman's income, who, afler paying sixpence out of every pound of it, has $£ 962$ 16s. 6d. left?
5. Simplify
6. Find the value of $3 \cdot \vec{j} \dot{\operatorname{s}}+4 \cdot \dot{a}+2 \cdot 4+5 \cdot \dot{2} \dot{j}$.
7. Add together 7 of a yard, $\ddagger$ of a foot, and $\frac{1}{3}$ of an inch.
8. $A$ can do $\frac{3}{3}$ of a work in 8 days, and $B$ can do $\frac{7}{3}$ of the anme Hork in 12 days. In how many days can both do it by working togethe: ?

9. Reduce $\frac{3}{7}$ of an ounce Troy to the decimal of a pound Avoirdupois.
10. $A$ and $B$ have 136 acres of land; $\frac{3}{}$ of $A$ 's share is equal to $\frac{3}{4}$ of $B$ 's share. Find valuo of $A$ 's land at 875 an acre.
11. A courtyard is 20 foet 0 inches square. What will it take to pave it at Gs. Ga. per square yard? Givo answor in dollars and conts, a shilling boing equal to 24$\}$ cents.

Valuo-100. Ten marks each for questions anawered.

## oramyar.

1. Analyze, writing out each proposition separately and stating its kind and relation:-
"Thoy possess a long and extremely slender bill, with which they extract the nectar, and the small insects which lark in the recesses of the flowers."

The boy stood on the burning deck Whonce all but he hadifled;
The flames that lit the battlo's wreck, Shone round him o'er the dead.
2. Parse the words in italics.
3. Make a noun and a verb from each of tho following adjectives : Golden, glorious, wondrous, different.
4. Tell the difference in use between piece and peace; ate and eight ; cruise and creus ; phain and plane; fuir and fare.
J. Correct the following, giving reasons:-

A good end does not warrant using bad means Thoy that honour me, I will honour.
Let him be whom he may, I cunnot wait for him.
Has either of your three friends arrived?
6. Construct sentences, exemplifying the different uses of the nominative case.

Values-1, 14; 2, 14; 3, 8; 4, 10:5,8;6,6. Total-60.

## asOGRAPHY.

1. Define water-shed, mathematical geography, steppe, horizon, cardinal points.
2. Bound France, Arabia, Egypt, Ecuador.
3. Name the British possessirons in Africa, with thoir chief cities.
4. What are the boundarite of the North Temperate Zone, and what is its width in degrees?
5. Locate Liverpool, Glangow, Londonderry. Richmond, Madras, Alerandria, Jerusilom, Venice, Brandon, Cayenne.
6. Over what milways would you travel, and through what important cities would you pass in a journey from Montreal to Winnjpeg?
7. Where do the people of Ontario get the following articles in a raw state :-Cotton, silks, raisins, coal, cofiee, sugar, currants, rice, tobacco, tea?
8. Name in order auy ten Canadian ports and give their situations.

Values-1, $8 ; 2,4 ; 3,10 ; 4,6 ; 5,10 ; 6,12 ; 7,10 ; 8,10$. Total-70.

## HIstory.

1. Name the sovereigns of England who were reigning at the close of each century, from the ninth to the cighteenth inclusive.
2. How was Queen Anne related to her successor?
3. What do yon understand by "The Cabinet," "The Invinciblo Armsda," "The Jacubites," "The Repesl of the Corn Laws," "The Confederation Act."
4. Mention some important differences between the Government of Canads and that of the United Statem.

Values-1, $10 ; 2,5 ; 3,15 ; 4,10$ Total- 40 .

## Entranct to Sixth and Senior Sixth elasg.

## writina:

Writing will be judged from the Dictation paper. Slates not to be ueed.

VaIue-50.

## DICTATION.

1. The ancient languages are, as piecas of mechanism, incomparably more beautiful then any of the modern languages of Furope.
2. These same causes produced analogous effocts upon the Saxons.
3. The forced approximation of the tro races produced many resson for fraternizing.
4. A strong sympathy for intollectual excellence was tho leading characteristic of Charlemagno, and this undoubtedly biossed him in encournging the power and pretentions of the hiorarchy.
b. Magna Charta embraces sixty articles expressed in a clear, torse, and authoritative manner. The franchises of the towns were sccured, the hardships of villeinage were alleviated, but the essential prerogatives of the sovereigh were untouched.
5. Auxiliary, atymol gically, indefatigable, parliamentary, igno. miny, culogiums, homogeneous, mancuvring, irresistible, idolizing, obsoquies, photographic, laboratory, atmospherical, summary, edifices, illiterate, poiguant, tyraunical, bazaar, vicissitudes, colossal, inexorable, telegraplh.
Value-80. Four marks to be deducted for each mistake.

## readina.

Fifth Book, pago 77. -From "The sun is roflected" "is awakened anow."
Value-50. Expression, 15. Fluency, 35. Two marks off for each error in pronunciation, and one mark off for every nther error in fluency, such as hesitation, omission, substitution, miscalling, dc., dec. Examiner will please fill in the reading marks on the list.

## ARTLIMETIC.

1. Find the least sum of money in dollars and cents which can be paid either in pence, shillings, soveroigns, or guineas; $£ 1$ sterling boing $=\$ 4.86$.
2. $A$ spent $\frac{1}{2}$ of his money and gave away $\$ 20$; he then spent $\xi$ of the remuinder and gave away $\$ 10$ less than $t$ of what then remained. He had $\$ 48$ left. How much had he at first?
3. A man agreed to work for $\$ 1.50$ per day and his board; for cach day lost he was to forfeit 40 c . In 77 days he earned 877.50. How many days did he luse?
4. A watchmaker huys a watch for 812. What price must he ask for it su that after throwing off $25 \%$ of the price asked he may sell it for $25 \%$ more than the cost price?

5. A man lends $\$ 1000$, part at $8 \%$, part at $6 \%$, and receives $\$ 72$ interest ; how much is ient at each rato?
6. What kind of vulgar fractions give finite decimals, a. id why.?
7. Sixty thonsand bricks are required for a wall 15 feet high and 1 foot $10 \frac{1}{2}$ inches thich, each brick is 9 inches long by $4 \frac{1}{2}$ inches wide and 3 inches thick, including mortar; find the length of the wall.
8. I wish to exchange $£ 800$ in $3 \%$ consols at $93 \%$ for Canadian Bank of Commerce, shares at 154. How much will I receive? £1 being \$4.84.
9. A train 88 yards in length overtakes $B$ walking at the rato of 4 miles an hour and passes him in 10 seconds, but 10 minutes sifterwards it meets $C$ and passes him in $7 \frac{1}{3}$ seconds. How long before $B$ and $C$ meet?
10. For the carriage of 50 bushels of wheat to market I give 1 bushel wheat, and 16 cents, but for tho carriage of 40 bushels $I$ would give 1 bushel and receive back 10 cents. At what is a bushel of Fheat valued?
11. A man walked from his own rcsidence to Stratford in 4 days and home again in 5 days, walking each day one mile less than he did the preceding. How far does he live from Stratford?

Value-100. Ton marks for each question answered.

## grampar.

1. The honnurable member who has just spoken has made what in one respect may appear a paradoxical, but what, I think; ss human nature is constituted, was a very conciliatory speech touards the United Statea.

I do not mean freedow from aggression from without of which, as I have said, I have but little fear, but I do mean freedom from internal strifa.
(a) Analyze fully.
(b) Parse tho words in italics.
2. Construct sentences to exemplify the different kinds of subordinate clauses.
3. Point out and give the meaning of the roots, prefixes, and affixes of chronological, consanguinity, approximato, sccomplice, inexorable, allegiance.
4. In how many relations may a substantivo clauso stand in a sentence? Givo an examplo of each relation.
5. Distinguish botweon vorbs of complete and inconıpleto predication.
6. Defino strong conjugation, transitive verb, auxiliary vorb, dofective verb.
7. Criticise the following sentences, making corrections whore necessary :--

He is a better philosophor than a statesman.
Every one to their own taste.
The winter has not been as sovere as we expected it to havo been.
Two is better than ono.
Wheat is being sold for a dollar a bushel.
Enjuying health and to live in peace are great blessings.
Values-1 (a) 20 , (b) $20 ; 2,6 ; 3,12 ; 4,12 ; 5,8 ; 6,8 ; 7,14$. Total-100.

## GEOGRAPIIY.

1. Explain the phenomena of the tides.
2. What is the position of tho earth's axis with reference to the plane of its orbit, and what are the chief consequences of that position?
3. Name the thirteen original states of the American Union with their capitals.
4. Trace the course of the Danube, naming its tributaries and the countries draned by it.
5. Name anc locate the possessions of France in the different parts of the world.
6. Locate the following islands and tell the Government to which each belongs:-Cyprue, Cronstadt, Corfu, Elba, Sark, Niphon, Singapore, San Juan, Trinidad, Miquelon.
7. Draw a map of the Meditorranean Sea, marking the countries on its shores and the courses of the principal rivers that flow into it. Show by a double dotted line the boundaries of the Roman Empire at the time of its greatest extent.

Values- 1,$5 ; 2,10 ; 3,20 ; 4,5 ; 5,5 ; 6,20 ; 7,5$. Total-70.

## HSTOLY.

1. Where and when and between what armies was each of the following battles fought:-Mirathon, Zama, Actium, Chrlons, Naseby, Trafalgar, Jena, Austerlitz, Waterloo, Balaclava?
2. Attach an impurtant historical event to $1096,1215,1453,1513$, 1535, 1587, 1665, 1759, $1821,1867$.
3. What leu to the establishment of representative government in England?
4. When did the following eminent personages live, and for what are they respectively famous:-Miltiades, Lysander, Hannibal, C!eopatra, Caractacus, Boadicea, Charlemagne, Warren Hastings, Amherst, Bonaparte?
D. Enumerate the evils which the Confederation of the British North American Provinces was designed to remedy.
5. What do you understand by "Home Rule" for Ireland?

Values-Ten each.

## ALGEBRA AND GWOMETRY.

1. What is the dimension of a term"' When is an algebraical expression said to be homogeneous?
2. Resolve $a^{20}-x^{30}$ inte six elementary factors.
3. Solve the following equations :-

$$
\begin{aligned}
& \frac{x-7}{x+7}=\frac{2 x-15}{2 x-6}-\frac{1}{2(x+7)} \\
& \frac{(2 x+3) x}{2 x+1}+\frac{1}{3 x}=x+1
\end{aligned}
$$

4. There is a number of two digits, whose difference is 2 , and, if it be diminished by half as much again as the sum of the digits, the digits will be inverted. Find it.

5 . Triangles upon the same base and between the same parallels, aro equal to one another. Prove.
6. Tho greater side of every triangle is opposito to the greator. angle. Prove.
7. Defino semicircle, polygon, scalene triangle, trapezium, hypothesis.

Values-1, 8; 2, 8; 3, 10+10; 4, 14; 5, 10; 6, 10; 7, 5.

## Flactical Eqpartment.

## LESSONS IN CHEMISTRY.

(Continued from last month.)

## CHAPTER II.

## Exbrcise II.

39. What is meant by an acid, an alkali, a salt? give the tests. 34. Estimate the woight of the oxygen in a barrul of wator, 63 gallons, given 1 gallon $=101 \mathrm{bs}$.
40. Draw the line separating simple from compound bodies.
41. Wric out from memory a table of the non-motals.
(1) in alphabetical order (2) in the order of their atomic weights.
42. How many grams of potassic chlorate will yield 192 grams of oxygen? 490
43. How many pounds of zinc will be required to generate 20 ths of hydrogen from sulphuric acid? given the formula $\mathrm{H}_{2} \mathrm{SO}_{4}+\mathrm{Zn}=$ $\mathrm{ZnSO}_{4}+\mathrm{H}_{2}$. 652
44. Find the percentage of oxygen in hydric sulphate.

$$
65.714
$$

40. What is the formula for a eompound having the percentage composition $\mathrm{O}=72.73, \mathrm{C}=27.27$ ? CO.2. N. B. $\quad(72 \cdot 73 \div 16)$ : $(27.27 \div$ 12): $: 0:$ C. The slight discrepancy from $1: 2$ is owing to error in the experimental determination of the 27.27 .
41. Give the formula for $a$ substance containing $\mathrm{K}=31 \cdot 897, \mathrm{Cl}=$ 29 and $\mathrm{O}=39.183$ $\mathrm{KClO}_{3}$
42. Give the percentage composition of ammonic chloride $\mathrm{NH}_{4} \mathrm{Cl}$. $\mathrm{N}=26 \cdot 17, \mathrm{H}=7 \cdot 47 \mathrm{f}, \mathrm{Cl}=60 \cdot 35 \mathrm{~F}$.
43. Nitric acid $1 s$ made by distilling saltpotro $\left(\mathrm{KNO}_{3}\right)$ with hydric sulphate, $\mathrm{H}_{2} \mathrm{SO}_{4}$, given the formula $\mathrm{KNO}_{3}+\mathrm{H}_{2} \mathrm{SO}_{4}=\mathrm{HNO}_{3}+\mathrm{HK}$ $\mathrm{SO}_{4}$ (hydric potassic sulphate) find how much acid 300 grams of nitre or saltpetre will produce.
$187 \cdot 1$
44. Name the substances represented by the formulas $\mathrm{MnO} \mathrm{O}_{2}, \mathrm{NH}_{4} \mathrm{Cl}_{3} \mathrm{Fe}_{3} \mathrm{O}_{4}, \mathrm{P}_{2} \mathrm{O}_{5}, \mathrm{ZnSO}_{4}, \mathrm{CaCO}_{3}$ and mention any experiments in which thoy occur. (2nd Class 1876).
45. Find the woight of carbonic acid produced by burning 5 grs. of carbon in ozygen 18.3. (do 1877)
46. How much phosphorus is contained in 120 ths of bone-ash consisting of $88 \cdot 4$ per cent of tricalcic phesphate and 11.5 per cent of calcic carbonate? (do. 1879). Ans $21 \cdot 216$. 47. How many tos of charcoal (carbon) in a barrel of pure sugar, 300 Hbs ? $126 \cdot 3$.
47. How many pounds of zinc in $\mathbf{3 5 0}$ fibs of rine sulphate? Ans. $141: 3$ (2nd Class 1877)
48. Name all the substances represented in the equation $\mathrm{HNO}_{3}+\mathrm{HKO}=\mathrm{KNO}_{3}+\mathrm{H}_{3} \mathrm{O}$.
49. If 200 grams of the first substance be used how much of the last named substance will be produced? $57 \cdot 14$
50. Namo the substances in the formula $2 \mathrm{NH}_{4} \mathrm{Cl}+\mathrm{CaH}_{2} \mathrm{O}_{2}=$ $2 \mathrm{NH}_{3}+\mathrm{CaOl}_{2}+2 \mathrm{H}_{3} \mathrm{O}$. What weight of the first will produce 1 kilogram( $=1000 \mathrm{grams}$ ) of the third? Ans. 53.5 yield 17 hence 3147 yicld 1000.
51. Name the substances in the equation
$\mathrm{Na}_{2} \mathrm{CO}_{3}+2 \mathrm{HCl}=2 \mathrm{NaCl}+\mathrm{H}_{2} \mathrm{O}+\mathrm{CO}_{2}$.
52. Bleaching powder and sulphuric acid produce calcic sulptate, water, and chlorine. Represent the reaction by an equation.
53. One part of manganic dioxide and.two parts each of sulphuric acid and common salt yield sodic sulphato, manşanous sulphate $\left(\mathrm{MnSO}_{4}\right)$,two parts of wator and two of chlorine. Express this symbolically.
54. Write out in words the meaning of the following equations;$\mathrm{KOlO}_{3}=\mathrm{KOl}+\mathrm{O}_{3}$
$3 \mathrm{MnO}_{2}=\mathrm{Mn}_{3} \mathrm{O}_{4}+\mathrm{O}_{2} . \mathrm{N} \mathbf{\mathrm { B }}$. compare $\mathrm{Fo}_{3} \mathrm{O}_{4}$; trimanganic tetruxide
$2 \mathrm{H}_{2} \mathrm{SO}_{4}=2 \mathrm{SO}_{2}+2 \mathrm{H}_{2} \mathrm{O}+\mathrm{O}_{2}$
$2 \mathrm{HgO}=2 \mathrm{Hg}^{2}+\mathrm{O}_{2}$
$\mathrm{CaCO}_{3}+2 \mathrm{HCl}=\mathrm{CaCl}_{2}+\mathrm{H}_{3} \mathrm{O}+\mathrm{CO}_{2}$
$3 \mathrm{Fe}+4 \mathrm{H}_{2} \mathrm{O}=\mathrm{Fe}_{3} \mathrm{O}_{4}+4 \mathrm{H}_{2}$. N. B.triforric tetroxide.
55. In the formula $\mathrm{N}_{2} \mathrm{CO}_{3}+10 \mathrm{H}_{2} \mathrm{O}$, what is the $10 \mathrm{H}_{2} \mathrm{O}$ called?
56. In $\mathrm{H}_{2} \mathrm{SO}_{4}$ that is $\mathrm{H}_{2} \mathrm{O}_{1} \mathrm{SO}_{3}$ what is tho $\mathrm{H}_{2} \mathrm{O}$ callod?
57. What is the province of organic chemistry?
58. Whatsort of substances have namesending in -yl as methyl, formyl, hydroxyl, sodoxyl, enproxyl?
59. Dafine oxyacid, hydracid, and sulphacid.
60. What is an anhydride? Name some and give theirformulas.
61. What determines the basicity of an acid?
62. What determines whether a salt is normal or acid?
63. There are three principal varieties of chemical changes or reactions, namely.
64. Synthesis, or Composition, thedirect union of twoelements, atoms uniting to form molecules. Example:-chlorine and hydrogen under the infuence of light or of electricity combine directly, $\mathrm{H}+\mathrm{Cl}=\mathrm{HCl}$.
Cases of pure synthesis seldom if ever happon in the strict sense, Almost every chomical process is attended both with the breaking up of molecules into atcms and the re-grouping of these atoms to form nery molecules. This is true even of elementary substances like hyarrogen and chlorine. We have used the atomic formula but the molecular formula $\mathrm{H}_{2}+\mathrm{Cl}_{2}=2 \mathrm{BCl}$ probably expresses the real operation. Similarly free oxygen and free hydrogen combine to form water $2 \mathrm{H}_{2}+\mathrm{O}_{2}=2 \mathrm{H}_{2} \mathrm{O}$. There may be cases in which the molecule consists of a single atom but thoy are rare. In general the term synthesis is employed to designate the change which takes place when the old molecules attach to thomselves more material, and now molecules of greater weight result as when iron is burnt in oxygen, $\mathrm{Fe}_{3}+\mathrm{O}_{4}=\mathrm{Fe}_{3} \mathrm{O}_{1}$.
65. Analysis, or Decomposition, the separation of a compound into simpler compounds, or into its elements, the breaking up of molecules into atoms. Examples:-mercuric oxide by the application of heat is split upinto its elements $2 \mathrm{HgO}_{\mathrm{g}}=\mathrm{H}_{\mathrm{g}_{2}}+\mathrm{O}_{2}$. Similarly by a galvanic current $2 \mathrm{H}_{2} \mathrm{O}=2 \mathrm{H}_{2}+\mathrm{O}_{2}$, by heat potassic chlorate is decomposed $2 \mathrm{KClO}_{3}=2 \mathrm{KCl}+3 \mathrm{O}_{3}$
66. Metathesis, Replacement, or Substitution, in which one ingredient of a compound substance is withdrawn and its place supplied by some other material, the atoms of one molecule changing places with the atoms of another molecule. It might be regarded as a combination of analysis and synthesis, and and is therefore frequently called Double Decompasition.

Examples :-metallic sodium immersed in water docomposes the water by roplacing the hydrogen $2 \mathrm{H}_{2} \mathrm{O}+\mathrm{Na}_{3}=2 \mathrm{NaHO}^{2}+\mathrm{H}_{2}$. Each atom of sodium displaces one atom of hydrogen from a molecule of water and forms caustic soda or sodic hydrate with the remaining atoms of the water molecule. The displaced hydrogen is liberated in the free state. Add a little hydrochloric acid to this caustic soda and water and common salt are produced, thus $\mathrm{NaHO}+\mathrm{HCl}=$ $\mathrm{H}_{2} \mathrm{O}+\mathrm{NaCl}$. The hydrogen of the acid and the metal of the alkali havereplaced each other. Numerous examples will occur as wo procead.
21. There are two peculiar conditions under which chemical action will sometimes take place even when ordinary means fail to develop the chennical forco. They are called Catalysis and the Nascent State.

It is somotimes found that the mere presence of another body which itself remains quite unchanged, is sufficient greatly to facilitate, or evon to determine the combination of elements, or the separation of a compound. This influence is tormed catalysis. Thus froo oxygen gas and double its volume of freehydrogen gas diffused together in the samo vessel form a mechanical mixture known as oxyhydrogen gas. Under ordinary conditions this gas may be kept for a long time without undergoing any chemical change. But whou a pioce of porous spongy platinum is introduced the gases combine to form water and the platinum becomes quite hot. Charcoal produces a similar effect on a mixture of oxygen and sulphuretted hydrogen, $\left(\mathrm{H}_{2} \mathrm{~S}\right)$. The gases combine with explosion, but the charcoal undergues no change, nor doos the platinum in the preceding example. In preparing oxygen from potassic chlorate ( $\mathrm{KClO}_{3}$ ), it has been found that the gas is given up at a much lower temperature if some black oxide of manganese, (manganic dioxide, $\mathrm{MnO}_{2}$ ) be mixed with the chlorate. [N.B. See that the manganic oxide has nut been adulterated with coaldust or the mixture will be explosive.] But the oxide itself remains unchanged. Even powdered glass or sand will have a similar effect in causing the chlorate to decompose at a lower temperature. This catalyctic influence is not well understood, but it is conjectured that in some instances at least the neutral substance acts as a carrier. Thus the $\mathrm{MnO}_{2}$ may seize part of the oxygen of the $\mathrm{KClO}_{3}$ and form $\mathrm{MnO}_{3}$, this $\mathrm{MnO}_{3}$ then decompose into $\mathrm{MnO}_{\mathbf{2}}+\mathrm{O}$ and the $\mathrm{MnO}_{\mathrm{g}}$ be ready to repeat the process. In other cases, as those of charcoal and platinum, the third substance acts by condensing the gases in its pores.
22. It is also observed that at the moment any substance is liberated from a chomical combination its aflinity or power of entering into combination with other elements is greatly exalted. The substance is then said to be in the Nascent State. The increased energy of combination observed is probably owing to the separation of individual atoms which at first have not as yet united with each other to form molecules. Thus, nascient hydrogen would be represented by $H$ while ordinary free hydrogen would be HH or $\mathrm{H}_{2}$, for as proviously stated the molecule of the element is believed to consist of at least two atons.
A high temperature, the gaseous form, catalyctic influence, the nascent state and a strong current of electricity are powerful means of promoting chemical action, more especially when two or more of them are brought to bear simultaneously. Numerous cases occiur which must be carefully noticed. Thus free oxygen and froc hydrogen do not ordinarily combine, but if oxygen and hydrogen be brought together at the moment of their separation from some compounds they immediately unite to form water. The bleaching power of chlorine also depends on nasceut oxygen.
23. After innumerable experiments and careful observation chemists have been ablo to sum up the essential points discovered with regard to chemical action under the five following statements commonly known as the Laws of Chemical Combination.
I. The Law of Constant Constitution. The same chemical substance containg the same elements.
II. The Law of Fixed or Constant Rroportion. The eloments of any substance are always combined in the same proportion by weight. These combining woights, chemical equivalents, or atomic weights are given in section 14.
III. The Law of Multiple Proportions. When one body combines vith another in several proportions, the higher proportions are multiples of the lower.
IV. The Law of Compound Proportion. The combining proportion of any compound is the sum of the combining proportions of all its constituents.
V. The Law of Reciprocal Proportions, or Equivalent Proportions. If any number of substances, say A. B. C. D. etc., each unito with another substance, say $X$, then the proportions by woight of A. B. C. D. etc, which soverally combine with $X$ will represont multiples ur measures of the proportionsin which A.B.C.D. Se., combine among thomselves provided any such unions take plice, for example $\mathrm{AB}, \mathrm{AD}, \mathrm{BC}$, eic.
24. Explanations and oxamples of the Laws. The first law morely states that water is found, the world over, to consist of oxygon and hydrogon and nothing else ; salt of sodium and chlorine and nothing else; sugar always of the samo three things viz., carbon, hydrogen, oxygen.

The second law asserts that any given substance not only contains always the same elements and no others, but also that these same elements are united in precisely the same proportions. It states that the chemical formula and the perrentage composition of any given substance are unchangeably the same, that sugar, wator, ammonia, chlorato of potash etc. always yield the same percentage of the same ingredients.
The third law is well illustrated by the compounds of nitrogenand oxygen, $\mathrm{N}_{2} \mathrm{O}, \mathrm{N}_{2} \mathrm{O}_{2}, \mathrm{~N}_{2} \mathrm{O}_{3}, \mathrm{~N}_{2} \mathrm{O}_{1}, \mathrm{~N}_{2} \mathrm{O}_{3}$, called nitrogen, mon-oxide, di-oxide, tri-oxide, tetroxide, and pentoxide, in which we have two parts by weight of nitrogen united with one, two, three, four or five of oxygen. It is found impossible to proparea compound containing any intermediate quantity of oxygen, as nitrogen two parts and oxygen three and a quarter parts. Similarly we have $\mathrm{CO}_{2}$ and CO ; $\mathrm{SO}_{2}$ and $\mathrm{SO}_{3} ; \mathrm{Cl}_{2} \mathrm{O}, \mathrm{Cl}_{2} \mathrm{O}_{3}$ and $\mathrm{Cl}_{2} \mathrm{O}_{4}$, but no intermediate proportions.

The fifth law may be oxemplified as follows:-
32 parts of sulphur unite with $\overline{56}$ parts by weight of iron, FeS .


Hence 32 "sulphur " " 71 " $"$ "chlorine, $\mathrm{SCl}_{2}$. Again 14 " nitrogen ". " 381 " " "iodine, $\mathrm{NI}_{3}$.

3 "hydrogen " " 381 " $"$ " $"$, 3 HI . Hence 14 " nitrogen " " 3 " " "hydrogen, $\mathrm{NH}_{3}$. Similarly.

16 parts of 0 unite with 2 parts by weight of $\mathrm{H} . \mathrm{H}_{2} \mathrm{O}$. 32 " "S " " 2 " " " "H, $\mathrm{H}_{3} \mathrm{~S}$.
Hence 0 and $S$ combine in measures or multiples of these propor ${ }^{-}$ tions.

32 parts of $S$ unite with $2 \times 16$ parts of 0
$\mathrm{SO}_{2}$ also" "."" " " $3 \times 16$ " " 0 , $\mathrm{SO}_{3}$.
The fourth law follows from the second by simple addition. Thus $\mathrm{H}_{2} \mathrm{SO}_{4}=2+22+64=98$ the combining weight of sulphuric acid.
25. Remarks on the Laws of Combination. With respect to the law of constant constitution, we must remember that a number of substances exist in two or more distinct forms which in outward appearance, and physical properties have little in common, whilst their chemical relations are identical. Theso differences aro brought about by physical and sometimes by chemical agency. The substances undergo a change of state and become modified in many physical and some chemical properties, but nevertheless still consist of nothing but the same kind of matter, the very same chemical substance, because they produce the same chemical products, and can sometimes be sery easily converted back into their original or normal form. Thus carbon exists as rharcoal, as diamond, and as black-lead. Such change of appearense and properties is called an Allotropic Modification, Allotropy or Allotropism (allos $=$ another, tropos $=$ form).

Phosphorus presents a remarkable instance of this metamorphosis. Common yellow phosphorus is a waxy-looking solid, takes fire a little above blood hoat, is luminous in the dark, soluble in
carbonfo disulphido, transparent, glassy, quite soft and flexible, and very poisonous. Red phosphorus, nuod for making matohew, is an allotrope of tho yollow varioty. It is hard, brittle, sed colorod, docs not take fire ata tempurature considorably above that of boiling water, does not dissolve in carbenic disulphide at all, is not poisonous, not glassy in appearanco, and does not shine when rubbed in the dark. Yot at a high tomperature, any $500^{\circ}$ Fah., it is changed back to the common varioty. Oxygen, carbon, sulphur, boron, and silicon oxist in two or more statee in which thoir properties are widely difforent. Nor is allotropism confined to simple substances. Some compounds such as silica, and the peroxides of iron and tin present allotropio modifications. These changes are genorally ascribed to changes in the arrangement of the atoms within the molecules, or of the molecules themselves.
20. With respect to the law of constant proportions, let us notice that the converse is nut:true. The same elements united even in the same proportion do not always produce the some compound.
For example many organic compounds are composed of a liko number of atoms, but have wholly different properties. Thus oil of turpentine, oil of lemons, of bergamot, lavender, pepper, camomile, caraway, cloves, thyme, and oil of oranges all possess the same chemical constitution, namely $\mathrm{C}_{10} \mathrm{H}_{20}$. It is a common thing for oil of lemons exposed to sunshine to convert into oil of turpentine, and thus cause the cook to spoil her cake. Isomerism is the term used to denote these differences of physical and chemical properties among bodies having the same chemical composition. Polymerism is used to denote that the bodies have the same percentage composition, but have different combining numbers, as hydric cyanurnte and hydric cyanate, $\mathrm{H}_{3} \mathrm{C}_{3} \mathrm{~N}_{3} \mathrm{O}_{3}$ and 3 HCNO whose combining numbers are 132 and 44 ; common aldehyde and acotic ether, $\mathrm{C}_{2} \mathrm{H}_{4}$ O and $\mathrm{C}_{4} \mathrm{H}_{8} \mathrm{O}_{2}$ whose percentage is the same but their atomic weights 44 and 88 respectively.

Corrbction.-At page 110, section 17, second seutence, should read "Those which appear at the positive pole are called chlorous or electro-negative, those at the negative pole basylous or elector-positive." The words chlorous and basylous were accidentally misplaced, which mado the following sentences unintelligible.

## RULES FOR DESCRIBING THE PRINCIPAL NATURAL DIVISIONS OF LAND AND WATER.

## BY A. H. $\mathbf{O}$.

LAND DIVISIONS.

1. A Continent.-State where it is in the eastern or western hemisphere, its position with respect to the equator, and what bodics of water are adjacent to it.
Example.-North America is situated in the northorn part o.. the western hemisphere, north of the equator, and has the Arctic ocean on the north, the Atlantic on the cast, and the Pacific on the west.

Excrcise-Describe the following continents:-South America, Europe, Asia, Africa, and Australia.
2. An Island. - State its direction from the nearest mainland or larger island, and in what body of water it is situated.
Examples.-Nowfoundland lies south-east of Labrador, in the north Atlantic ocean. Jamaica lies south of Cuba, in the Caribbean sea.

Exercise-Describe the following islands:-Greenland, Cuba, Vancouver, Iroland, Sicily, Hayti, Ceylon, Now Guinea, Tasmania, Borneo, Madagascar, Sumatra, Great Britain.
3. An Archiprlago.-State in what body o' wator it is situated, the direction in which it extends, and its position.

Example -The West India Islands, in the north Atlantic ocean, extend in a south-eastorn direction, from tho peninsula of Floxida to the Gulf of Venezuela in South Amorica.
Exercise. - Describe the following archipelagoes:-Japan Iiles, Philippino Isles, Kurile Isles, Ionian Isles, Cape Verde Ialands, Sunda Isles, Molucoas, Canaries, Mascarenes, Comoro Islands.
4. A Peninsula-State in what direotion from the mainland it projects, and what bodies of water nearly surround it.
Esample.-Nova Scotia projects south-east from New Brunswick, and is nearly surrounded by the Bay of Fundy, the Atlantic ocean, and Northumborland Strait.

Exercise.-Describe tho following peninaulas:-Florida, Labrador, Fucatan, California, Aliaska, Alaska, Arabia, Biudostan, Further India, Kola, Brittany, Crimea, Malay, Anatolia, Katiwar, Corea, Kamtschatka; slso the Danish, Iberian; Italian, Hellenic, and Scandinavian peninsulas.
0. An Istrmus.-State what bodie of water it lies between, and what bodies of land it connects.
Example.-The Isthmus of Panama, lying between the Caribbean sea and the Pacific occan, connects Central and South America.

Exercise.-Describe the following isthmuses:-Tehuantepec, Finland, Corinth, Poreliop, Suez, Kraw.
B. A. Cape.-State from what coast of what country it projects, and into what body of water.
Example--Cape Farcwell projects from the south coast of Greenland, into the Atlantic ocean.
Exercise.-Describo the following capes:-Brewster, Barrow, Sable, San Lucas, Mendocino, Chudleigh, Orange, St. Rogue, Corrientes, Aguja, Gallinas, Nordkyn, Naze, Roca, Tarifa, Lecurvin, Byron, Van Diemen, Comorin, Canbodia, Ras-al-Had, Aniwa, Spartel, Blanco, Guardafui, Amber, Matula, Agulhas, Verde, Couta, Bon, Nogro, Palmas, Negrais, Baba; Lopatka, Prince of Wales, Charlos, Race, Ray.
7. A Plann. - State between whatit oxtende(length), and between what it lies (breadth).
Example. - Tho Atlantic Plain extends fromithe Fulf of St. Lawrence to the Gulf of Mexico, between the Alleghanies and the Atlantic ocean.

Exercise-Describe the Llanos, the Silvas, the Fampas, the Great Plain, the Plain of Hungary, the Siberian Plain, the Plain of Turkestan, the Plain of Hindostan, and the Plain of China.
8. A Mountaly.-State to what range it bolongs (if any), and in what part of what country it is situated.

Example.-MIt. Fairweather in the Sea Alps, is situated in the north-west part of British Columbia.

Ereccise.-Describe the following mountains:-Kenia, Sinai, Kilimandjaro, Ararat, Blanc, Peshau and Hoshan, Etna, Hecla, Vesuvius, Cotopari, Everest, Chimborazo.
9. A Mocitale Ranoe.-State the country or countries in, or between which it is situated, its direction, and the points iotween which it uxtends.

Example.-The Siorra Nevada Range, in the United States and Mexico. extends in a south-oasterly direction from Cape Blanco to Cape San Lucas.

Exercise--Describe the following ranges:-Pyrences, Apennines, Carpathians, Alleghanies, Elburz, Gawler.
10. A Mountain Sxitrix. - State the countries through which it extends, its general direction, and the number of divisions, or rarges it comprises.

Erample.-The Scandinavisn system extends southward through Norway and Sweden from North Cape to the Naze, and comprises
threo principal divisions, the Kiclen Rango, the Dofrines, and the Langfiold.
Exercise.-Describe tho following systems:-The Iberian, Alpine, Altai, Himalaya, Kuen-Lun, Alleglany, Andeau.

## watre divisions.

1. An Ocean.-State its direction from the continents whose enasts it washes.
Example.-The Atiantic ocean is east of North nnd South America, and west of Europe and Africa.
Exercise. -Describe tho following oceans:-Pacific, Indian, Arctic.
2. A SEA.--Stato of what ocean it is a branch, and its position with respect to the country or countrics whose coasts it washes.

Example.-The Red seu, a branch of the Indian ocean, lies betreen Arabia on the east, and Africa on the west.
Ejercise.-Describe the following seas:-Adriatic, Mediterrnnean, Baltic, Behring, Yellow, Irish, Arabian, Levant, Zgean, Okhotsk, Japan, Wang-Hai, Tung-Hai, Chinese.
3. A Goxf. -State of what t.ody of water it is a branch, and its direction from the country or countries, whose coasts it washes.
Example.-The Gulf of Mexico, a branch of the Atlantic ocoan, lies south of the United States, and east of Mexico.
Exercise.-Describe the Gulfs of California, St. Lawrence, Venezuela, St. Georgo, Arica, Onega, Suez, Archangol, Obi, Tonquin, Siam, Aden, Carpentaria, Guinea.
4. A Bay. - Follow the rule for a Gulf.

Example.-Bay of Biscay, a branch of the Atinntic ocean, lies west of France and north of Spain.
Esercise.-Describe the following bays:-Fundy, Hudson, Ohesapeake, Delaware, Bengal, Arnhem, Panama, All Saints.
j. A Strait. - State between what countries or islands it lies, and what bodics of water it connects.
Example. -The Strait of Florida, between Cuba and Florida, con. nects the Gulf of Mexico with the Atlantic occan.
Excraise.-Describe the following straits:-Davis, Hudson, Belle Isie, Behring, Magellan, Le Maire, Skager-rack, Dover, Gibraltar, Otranto, Dardanelles, Constantinople, Bal-ol-Mandeb, Malacca, Palk, Torres, Bass, Macassar, Sunda, Balabac, Juan-de-Fuca, La Porouse.
6. A Channel-Follow the rule for a strait, or gulf, according to the affice which the channel performs.
Exercise.-Describe tho following channels:-Yucatan, Mozambique, St. George's, Bristol, Corea, Fo Kien.
7. A lake.-Stato to what river-basin it belongs, its situation, and its outlet, if it has one.
Example. -Lake Ontario, in the basin of the St. Tawrence, lies betrieen Ontario and Now York state, and has the St. Lawrence for its outlet.
Exercise.-Describe the following lakes:-Winnipeg, Great Slave, Great Bear, Superior, Itasca, Leon, Osanagan, Onega, Ladoga, Constance, Geneva, Baikal, Koko-ror, Tale-Sab, Caspian, Aral, Albert, Victoria, Tanganyika, Nyassa, Bangweola, Eyre, Taupo.
8. A River. - State the watershed to which it belongs, its source, its direction, and the body of water into which it flows.

Exanple-Thee Mississippi river, in the watershed of the Gulf of Mexico, rises in Lake Itasca, in the state of Minnesota, and flows southward into the Gulf of Merico.

Eisercist-Describe the following rivers:-Mackenzie, North Saskatchowan, St. Lawrence, Columbia, Fraser, Yukon, Orinuco, Amazon, Parana, Rhino, Rhone, Volga, Danube, Obi, Yenesei, Loma, Amoor, Hoang-Ho,Melong, Xang-tse-Kiang, Brahmaputra, Ganges, Indus, Euplurates, Nille, Zambezi, Orange, Congo, Niger, Gambia, Senegal, Murray.

## MONTHLY REPORTS.

Tho following form of monthly repurt which is in uso in tho Lindsay Public Schools, under the head mastership of Mr. W. F. Soymour, 18 given as a model which may be useful to teachers elsewhore:-


RECITATIONS.
BY D. A. M.

He who wrould succeed in any occupation must have correct ideas of what he wishes to accomplish. Aimless working produces useless results. It is not necessary that an observer should at once comprehend the purpose in each portion of the work but the workman should have in his mind a clear conception of what he wishes to produce, that all parts of his work may be properly adapted to each other. The more delicate the structure the more accurate should be tho workman's understanding.
The moulding of the human mind is the most delicate work in which any person can engage, and yet how few workmen are
thoroughly compotent to undertake tho task. The nature of mind is not understood and methods of culture, contrary is nature, are adopted haphnaard, in the hope that somehow child mind will surmount all obstacles, and develop into a grand structure. Many do surmount these obstacles and attain oxcellency but by far the greater number are dwarfed. Ofall existing workmen the teacher should thoroughly understand his : ork-uther workmon build for time, but he builds for eternity. All parts of his work should have a definite purpose and ehould be so related to each other that there will be no misapplied labor. Probably there is more failure in conducting recirations than intuy othor part of the teachor's work. Owing to the short appranticeship for, and tha insecurity of, the the teachers position there are many who have no definite ideas of the aims of recitations, or at best thore aro acquainted with not more than two or thrie leading methods. Knowledge on the objects, conditions, principles and application of recitations should bo very definite.

## OBJECTY

Among the objects to bo kept before the mind, while conducting a recitation we may name the following:-(1) To ascortain the extent of the pupil's preparation. - If a teacher attempt to instruct a pupil without knowing how much he understands of the subject, he is likely to begin with that portion familiar to the pupil, and by not demanding thought tompt him to idleness, or else with that portion which is too difficult for him and thereby engender distaste for that particular subject and study in general. If pupils would be aroused $t$ os interest in study every additional fact given should be so related to what thoy already know that they can clearly comprehend it.
2. To aid in a more thorough understanding of the subject matter of the lesson. There are many who, considering this the only object of recitation lecture and explain away tho lesson leaving tho pupil nothing to do. If a pupil is to receive the greatest benefit from acquired knowledge there must be set up in his mind the same process of thought as was in the mind conceiving the idea. The pupil's advancemont is measured more by what he doos than by whet he hears, therofore he should be told nothing directly that he can find out for himself. It is the teachur's duty to direct him in acquiring knowledge but the luxury of thinking and the glory of the conquest belong to the pupil.
3. To aid in cultivating memory. Since so much of the success in learning depends on memory, great consideration should be given to its cultivation. How many persons complain that they forget so easily. This is certain evidence of bad treatmont unless there is some natural defect. If a subject has been properly.leamed there is no more necessity for forgetting it than for failing to understand it. The fact is that teachers are in too much hurry to get over a certainamountof work, and neglect to require their pupils to repeat what has been told them \&c., hence facts and principles are dis. posed of so carelessly that responsibility does not rest anywhere. "It should, therefore, be the especial object of every recitation, to fix securely and permanently in the mind, every fact and principle of the lesson."
4. To cultivate tho powers of expression to enable the pupil to tell intelligently what he knows. A pupil must possess language both to think and to express his thoughts. It is a notorious fact that pupils in general fail to express themselves accurately and clearly. It is not assuming too much to say that a pupil does not undersiand a subject properly unloss ho can oxpress his thoughts clearly and accurately. "Teachers are too prone to take ior granted that a child knows a thing, eitherbecause he pretends to, or thinks he does, or makes some halfway, hlundering answer that may be tortured into a remote reference to the point in hand."

The mamer is scarcely of less importance than the matter itsolf. Language is an instrument to bo used all through lifennd should bo wollunderstood. It is the teachor's duty to afford timeand opportunity for the cultivation of the exprossive powers: in no placo can this be dono better than in the recitation, where we should call jut the knowledge the pupil poseecses in tho best possible form of expression.
5. To measure the pupil's ability, acquired and natural, that the timid may be encouraged and tho presumptuous checked. Theso two classes of pupils are found in everyschool and by bringing them together in the recitation they can measure each others ability and only those who really deserve special honors will receive them. If what the timid bring to the market boaccepted at its full value they will be encouraged to try again-their success strengthens them. With some tact and consideration for his pupil's feelings a teacher can in a recitation do much to check pride and cultivate courage.
6. To afford opportunities for cultivating independence of thought on the part of the pupil. There are two evils to be guarded against-the one, blind adherence to booksand customs, the other sitting aside all books and definitions. The one is rank conservatism the other rabid gritism. Both are destructive to healthy growth of mind. The one reduces pupils to the condition of mere machines the other inculcates rebollion against all ostablishod authority. If the toacher presents one, and thata sufficiently limited, point of thought to the pupil at a-time, have these points follow each other in natural progression, go over the same ground again and again till a sufficient impression is made, bring together many examples of the same fact, apply the results of the instruction to the subject under consideration, pupils will arrive at conclusions and form definitions couched in clear and terse language. Thoy will be encouraged in thinking independently, and as they may themselves oxpress thoughts differently thoy will be led to respect each others' opinions and will besavod from being pedantic, self-conceited, and opinionated, or obsequious, stupid and yarasiticat. A pupil should never be prompted or assisted bya leading question, if he cannot answer the question given, go back to what he knows and socratically lead him to comprehend the fact sought to be elicited from him..
7. To enable the teacher to explain and illustrate the lesson and add new matter to it. Pupils sttend school not mercly to recito but to be instructed and aided by the living teacher. Never stop short with heuring a lesson, add somothing to it, talk about it. Professor J. H. Allen says "The nsoment you drop the thick veil which the text-book interposes between your pupil's mind and yours and deal with him face to face, you are in the right line and are doing the work of the great teachers of the world."

If left to himself a pupil may form very erroneous opinions, which by proper explanation and illustration the teacher can remove and by adding now maiter to that already acquired he may arouse an intense interest in work.
8. To enable the teacher to keop proper incentives to study, before the pupils' minds. How pupils have been inspired with real in the acquisition of knowledge, by the mortification of one failure, every experienced teacher knows. Care should be exercised not to raise an artificial excitement which may perhaps secure better recitations but which will do nothing toward putting the mind into such a state that it will press on in the pursuit of knowledgo after the living teacher has closed his labozs.
9. To economize tine. The method of individual recitation has beon ":weighed in the balance and found wanting" ; but thore are times and circumstances in the majority of schools requiricg less or more of this practice. Not a moment should be lost. Although all the crorcises should be conductod quietly yet energy and do-
spatch should characterize overymovement. Pupilsshould be taught to economize time for life is shortr earnest and compotitive. "Th" early bird gets the worn." So he who can economize time will succeed.
10. To enable the Teachor to present to his pupils correct ideas of the purposes of lifo. It rests with the teacher to imbue his pupils with noblo thoughts, to inspire them with zeal in every good causo, to socure a fair and synumetrical devolopment of their ontire naturo, and to avoid a ono-sided and pernicious education. From historv, biography; \&c., he may teach them that the great purpose oî iijg is to gain a pure character if thoy would gain happiness. A good reputation may give a transient joy, but in times of adversity pure chars cter alone affords settled peace.

## qualities.

1. Recitation should be complete. There is a very common failure among teachors of all grades in this respect. Fragmentary and insuficient answers arevery common. Which has the greater effect, a whole charge of powder or tho tenth part of a charge? which contains the greater force a whole sentence or a hulf sentence; which will cultivate the mind the most, a part of a truth or the whole truth? The clearness, distinctness and completeness of utterance add to the clearness and comprehensiveness of the understanding. Every answer should be complete and sbould have some immediate connection with the question. Not a decimal point, or the most apparently insignificant sign or mark should be misunderstood. It would not do to say that $\$ 600$ atood for six dollars. The most scrupulous care should bo exercised to secure completeness, for "Whatover is worth doing is worth doing woll."
2. Recitation should be definite and exact in the use of language. There is nut sufficiont care exercised in securing plain and precise answers; and pupils after a time think any answer will do. They may depend on manufacturing one, or of guessing ono, by which they can slide along somehow. Indefiniteness in recitation squandors time and leaves the pupil possessed of a haterogeneous mass of facts which are of little service.
3. Recitation =hould be comprehensive both in understanding the matter and in making it as plain as possiblo. It is not uncommon to find pupils (not to say teachers) who have ciphered through the. arithmetic or said all the grammar in the book, unable accurntely to solve practical problems or io write or to speak correctly. Pupils should be taught to transfer the ideas from the book to the practical concerns of life.
4. A recitation should be logically arranged, what the pupil already knowi being made the basis of what it is proposed to teach him. Isolated facts cannot be remembered or incorporated into the intelloctual existence as woll as if they are associated with ideas already fixed in the mind.

## WHERE TO SPEND THE VACATION.

To the many readers of the Journal who may be in cluabt ins in where to spend the vacation, we can confidently recomuend Nova Scotia, and especially Yarmouth and vicinity, as a pleasant summer resort. The climate of Yarmouth is delightfully cool, such a thing as a sweltering day or sultry night being almost wholly unknown. There are beautiful drives, abundant facilities for fowling, boating, sea-bathing, and in fact everything that can contribute to the health and pleasure of the visitor. At Maitland Village, nine miles north of Yarmouth, there is an extensive sand beach, which many think quite equal to "Old Orchard Beach," where as fine sea-bathing can be had as the Atlantic cosst supplies. Comfortable board and lodging can be had at Maitland for fout dollars a weok. . By the new "Nova Scotia Steamship Company's" Line the tourist has a choice of two routes to Yarmouth (and thence to St. John, Halifax, etc.), one via Portland, which is 170 miles from Yarmouth, the other via Boston, 240 miles from Yarmouth. The -steamer from Portland leaves overy Friday at 1 p.m, on arrival of the Grand Trunk train from Toronto; and the Boston steamer leaves every Tuesday at $8 \mathrm{a} . \mathrm{m}$. Mr. Oliver, Dr. McLellan, and others, spent last summer's vacation at Maitland, and wo understand that quitea number of them are going to spend the coming vacation at the same. place.

## glotes allo flelus.

## ONTARIO.

T. O'Hagan, B.A., principal of the Chatham R. C. separato chool, sponds his summer vacation this year in tho Philadolphia school of Elocution.

Mr. A. W. Burt, of tho Perth collegiato institute, passed his second year examimation at Toronto university, with first-class honors, coming out first in History, French, and third in German. Mr. J. Balderson also passed his second year examimation. Mr. I. J. Birchard gained the degree of M. A.

From the new calender of Victurin university we learn that the number of graduates in arts is $3 \neq 1$; in law, 72 ; in divinity, 38. Tho number of students now in the arts faculty is 129 ; in law, 21 ; in science, 14; theology, 61; in medicine, 144.
The visitng committee of the Sarma board of education report being well pleased with the management and efficiency of the schools under the jurisdiction of the board.

A matter was brought before the London school board lately which presented a somewhat novel feature. A noto brought by a boy from his mother asking that ho be excused from attendance was marked "not sattsfactory." When the boy returned to school he was not taught for three weeks. though in the room. Mr. J. B. Boyle, I.P.S., sustaned the teacher 3 action as the boy was virtually under suspension. Mr. J. M. Wilson, a trustee, thought that every teacher had a different systemas reyards excuses for non-attendanco, and, "that complete humbug of a thing, the city teachers' associastion," ought to devise some general rule on the matter. It was referred to the committee of management.
W. W. Tamblyn, M.A., principal of Oshawa high school, has accepted his appointment by the board of education to a similar position in the high school, Bowmanville. We congratulate the people of that town and vicinity on having secured the earvices of one who is, by sound scholarship and long experience in teaching as well as by his genial disposition and his popularity with all who are interested in educationai matters, so well qualified to maintain tho present high reputation of the school. Mr. Tamblyn entered Toronto university at the age of sixteen, in 1862, and after winning many distinctions in the way of honors and scholarships, he graduated in 1866, a medalist in modern languages. After graduating he was, for six years, head master of Nelvcastle high school, and for the last ten years of Onhawa lugh schuol. He has rased Oshawa high school to a very high pusition, and by has labors there has proved hanasulf $w$ be one of the must successiul teachers in Ontario.

At the recent meetugy of the Perth county council, Mr. J. M. Moran, whu has become editor and proprietor of the Stratiord Herald, submitted his ressumation as yublic school inspector for the suuth ridug, adding his willmgness to retam tie office with the councal's apirioval. Mo. Murans restgnation was accepted and applicatoms were read for the position and referred to the education commitee, who recommended that the county be re-umted for schoul mspection purjuses, thereby saving it large amount and not prejudicing the interests of education, and that $\$ 200$ extra be allowed the mspector for travelling expeuses, in addition to the statutory allowance of $\$ 10$ per schoul. The report was adupted. Mr. Alexander, mspectur of the North Ridng, signifed has wilhmgness to assume the dutics for the whole county at the additional remunerstion proposed, and a by-law was passed appointing him.
Public school mspector Kelly, M.D., LL. B., county of Brant, has been the recipient of a very valuable present frum the teachers under his charge. It consisted of the Encyclopedia Britunnica, most handsomely bound an ses etal volumes, and a buagnificent writing-desk and boukcase combmed. The address wheh accompanied the gift is sand to have been the most beautalal that has erer heen presented to anyone in Brantfurd. It is richly and profusely ornamented, and is a triumph of the printer's and nilummator's art. The Mayor of the city presided at the presentition.

Mr. D. Jenungs, who for the past ten years has been principal of the Cxbridge public schoul, has accepted the charge of a mission schoul in British Culumbia, where his work will be chefly among the Indian population. Ho undertakes this position through a high sense of Christian duty, and from his practical experience, wellknown abilty and ummpeachable character we are sure he will be the means of domg much good by promoting civilization through ejucation and Christian teaching. He bears with him to his new sphere the best wishes of a numeruus circle of friends; and, at a late meeting of the Ontario county teachers' association, a resolution expressive of the feclings of the members was unanimously adopted.

An east Middlesex (Ont) teacher, Mr. J. D. Hunt, has taken with him to $V^{r}$ imnipeg, ${ }^{\circ}$. ore ho has recontly accopted a position as teacher in one of the city schools, somo refining influences that are much apprecinted. School music and school room decoration were successfully practised by him in his Ontario selool, and we tind that in Wimnipeg, through his precept and example, the Tonic sol-fn system of singing, and pictures, mottoes, flowers and illustrat. ed magazines are prominent features in tho schools of the Prainio city. As a rule tho teachers of Ontario who go to other provinces or countries to occupy similar positions, soon make such improvements in their social surroundings that the neighborhood cannot help expressing gratitude. We receivo in this way flattering accounts from the United States, British Columbia, Quehec and other places which bear testimony to the superior training and high culture of the tenchers of Ontario.
H. B. McGregor, B.A., H.M., Brockville high school has, by unanimous vote of the bourd of education, heen offered the head mastership of the Almonte high school. Previous to romoving to Brockville, Mr. McGrigor was for seven years principal of Almonte high school, and it is most flattering to him that, without application, the position was offered him under moro favorablecircumstances than heretofore, as they wish to get back again the teachor in whom they had so much confidence. He will return to Almonte on Sept. 1st. Clase Worrell, B.A., H. M. Gananoque high school takes Mr. McGregor's place in Brockville high school.
Hon. Adam Crooks, Minister of Education, when on a brief visit to Ottawa recently, stated that it is his intention to modify tho intermediate examinations so as to discourage crimming and mako them simple examinations for promotion. The list of optional subjeets will be largely extended.

The degree of M.A. has been conferred by Mount Allison university New Brunswick, on Mr. F. E. Kennedy, head mastor of the Cayuga high school,
For some time past there has been a local controversy going on in the Hamilton pirpers nbout the condition of the collegiato institute in that city. The matter has at length been taken up by the school board and at this writing an inquisition is in progress.

## MANITOBA.

A special meeting of the Protestant section of the board of education wes held recently, when in addition to its decision regarding applicants for the position of teacher in the normal school department to be opened shurtly in connection with the Winnipeg Protestant public schools, (see advertisement), the board decided that teachers for the collegiate department to be established in connection with the public schools in cities and towns must be graduates of some university in Eer Majesty's dominions who furnish satisfactory evidence of their knowledge of the scieuce of education and art of teaching and of the management and discipline of public schools together with a certificate of high moral character.
The books in French, Latin, and Greek required under standards ai\&xii of the programme of studies for uso in cities and towns were aided to the list of authorized text books.
Mr. J. B. Somerset has been appointed a member of the board of examiners for the examination of teachers.

Mrs. Alfred Cowley las resigned the position of Lady principal of the St. Jolm's college ladies' school, which she has filled with so much ability, and at some personal sacrifice during the last two terms. The vacancy has been filled by the appointment of Miss Sinclair.
The Ladies' collego and the branch school connected with it aro in a very satisfactory condition.

At a recent mecting of the council of the university of Mamtuba the clancellor, on behalf of the committee appointed at the last meeting, presented the following minute relating to the late Rev. John Black, D.D., which was on motion of His Grace the Archbishop of St. Boniface, seconded by Lev. Canon O'Meara, umatumously adopted, viz:-The council of the universitydesires to put on record its affectionate regard for the late Dr. Black. of Kildonan. The Rev. Dr. Black was resident for many years in the country, and took a kind and active part in every public effort for education or charity. He wis lighly esteemed for his practical ability, sound sense, and sterling qualities, while he was beloved for his kindnens of licart and courtcous manner. Ho was a member of the council from the beginning, was constant in his attendance, and was known to take a warm interest in the welfare and progress of the university. His loss is therefore deeply regretted.

The tonic sol-fa music notation is boing introduced in the Winnipeg public and high schools, and after vacation will bo taught in all the rooms. Mr. J. D. Hunt, princij,al of the high school, adoptod the method in his room, with favorablo results, some timo ago.

## NOVA SCOTIA.

A now chair has beon established in Dalhousio college ' rough tho munificence of Mr. George Munro, of New York. Thr clair is to bo known as tho' Georgo Mumw char of English literature and metaphysics. At a meating of the Governcrs held since tho generous founder announced his intention to establish the chair, J. G. Schurman, A.M., D.Sc., was chosen professor on the new foundation. Tho salary attached to the professorship is $\$ 2000$ por annum, with class fees additional.
Mr. Walter Smith, State dircetor of art education in Mrassichusetts, and art master, South Kensington, England, has been in-- vited to attend the onsuing Provincial education association at Truro. Prof. Smith has accopted the invitation and will deliver three lectures before that body. It is expected that ho will lecture in Halifax also.
Mr. R. I. Eaton, second master in the Murris street school, Halifax, has been obliged to resign through ill-health. Johnson Davidson, B.A. (Dalhousio Collego), has been olected to the positionthas vacated.
The third annual session of the teachers' association for inspectoral district, No. 10 (Cumberland and North Colchestor), was held at Parrsboro on the 15th und 1Gth ult. W. D. Arackenzie, inspector of schools, presided at the various sessions, supported by Mr. W. D. Ward as vice-president, and Mr. Gordon Hill as secretarytreasurer. Seventy-five teachors were present and enrolled as members. As this was the first meeting of the kind over held in Parrsboro, much public interest was tiaken in the -proceedings of the association by the people of the town. The association reciprocated by placing on record an expression of its appreciation of the kindness shown to its members by the residents of Parraboro. In addition to papers and exercises by mombers of the association, the teachers present were favored with a most instructive address by Principal Calkin of the provincial normal school on the subject of "Mothod." The public meeting hald on the evening of the 15th, attracted to the immense town-hall, what is said to have been the largest audience gathered in Parrsboro for many years. The chief address of the occasion was delivered by Dr. Allison, superintendent of educaition. This was an earnest plea to sustain by all means and at all costs an education in sympathy with the spirit of the times, and adapted to place the youth of Nova Scutia on a par with the youth of the most favored and progressive lands. The leading men of the town occupied places on the platform. A most cordial vote of thanks to the lecturer was moved by Rev. Mr. Alcorn, and seconded by Rev. Father Mralone, P. P. Tho programme of the association was a fresh and raried one, and was capitally carrier out. It included papers as follows: "Miscollan cous schonls and their special difficulties," by Mr. E. J. Lay Amherst; "School government," by Mr. Gordun Hill, Central Economy; "Subtraction," specially illustrated by Miss Bent, Amherst; "Physical geography," by Mr. Wim. Rockwell, Joggins Mines; "Teaching the elementary principles of geolugy," by inspectnr Mackenzio. Mr. Johnson, principal of the Parrsboro schools, gave a brief address on the "Utility of Drawing" as a branch of public instruction, admirably supplemented by a class exercise with pupils from his school. Miss Gillespie, Parrsboro, gave a highly interesting exercise in reading, and Miss McKernian, Amherst, an equally useful one illustrating the philosophy of division. It should be mentioned that Mrs. Huestis of St. John, N.B., a member of the Naiural History Society of that city, favored the association with valuable suggestions on the teaching of botany, and with the inspection of her beautiful collection of botanical and entomological specimens. The subjects brought befure the assocition in the papers presented were discussed with great freedom and vigor. The next annual meeting was appointed to be held at the village os Acrdian Iron Mines, Colchester county, on the second Thursday of June, 1883.

The anniversary of Acadia college was colebrated at Wolfrille, N. S., on the 31st May. The gathering was a brilliant one. The most intoresting part of the celebration was its Cramp memorial service, at which a series of orations were delivered by Dr . Sawyer, Dr. Bell, Dr. Rand and Mr. A. Langley. We note that Hon. Neil McLeod, B. $\Lambda$., has been appointed a scholar of the university of Acadia college.

## TORONTO ONIVERSITY COMMENOEMENT.

The proceedings in connection with tho close of tho lato academical year of the university of Toronto came off on the 7th and 8th of June. The evening of the 7 th was devoted to the amual meeting of convocation.
which was held in Moss Hall, the homo of the Literary and Scientitic society of University college. The attendnace Was not largo but ihe list of those present included a number of men promment in literary, scientific, and caucational circles. Tho chair was occupiod by tho. Hon. Jolin A. Buyd, chancellur of Ontario, who was re-elected for another bionnial term. A considerable postion of the time of the meeting wis taken uy with the discussion of the question whether tho Senate should insist absulutely on attendance on ono year's lectures in sume affiliated college, ance that not the first year's. It was finally rosolved by the casting vote of the charman that no recommendation on the subject should be made. On motion alinge and intluential committe, with power to add to its numbers, was appeinted to considee and report upon tho best means of improving tho financial condition and increasing the effictency of Toronto universityand University cullege. Ot thas committea thovicechancellor of the university, W. Mulock, M.A., mas nominuted convener, and amongst its nombers are tho Hon. Edward Blake, chancellor of the university and the Hon. J. A, Boyd, chairman of Convocation.

## commencement.

The annual commencement proceedirgs camo off in Convocation Hall on the afternoon of tho 8th, the chancellor presiding. The following is a list of the art graduates, and medallists of the year:-
MI. A.-J. J. Baker ; I. J. Brehard; E. R. Cameron; T. Davidson; C. Donovan;A. Hamilton; IV. A. Huston; F. H. Keefer; A. G. Leonard; T. H. Lyall; J. P. McMurrich; J. Mutch; W. G. Wallace.
13. A.-A. F. Ames, Cainvillo; J. Baird, Scarboro; A. 13lair, Ratho; W. H. Blake, 'loronto ; C. J. Camphell, Toronto; J. Caven, Toronto J. MI. Clark, St. Mary's; L. J. Clarke, Vmnipeg; L. C. Corbett, Corbett; W. F. W. Creolman, Colliugwood; W. A. Duncan, Russell ; H. L. Dunn, Welland; J. C. Elliot, Port Robinson; W. Eliot, Morewood; W. T. Evesns, WVaterdown; D. Fasken, Elora; W. O. Gallowray, Toronto; C. T. Glass, London; E. G. Grahan, Brampton; J. Gray, Woodburn ; A. H Gross, Whitby ; W. J. Greig, Ushava; J. F.'Grierson, Oshawa; E. F. Gunther, Toronto; R. Haddow, Dalhuusie, N B; T. P. Hall, Hornby; J. Hamilon, Motherwell ; T. Hepburn, ;-J. A. Jaffruy, Macville ; D. B. Kerr, Toronto ; G. G. Lindsay, Toronto ; W. J. Legie, London : S. Love, Toronto ; G. S. MacDonald, Cornvall ; J. IIcGillivray, Collingwood; A. MacMurchy, Toronto; C. A. Mayberry, Sulford ; C. J. MilcCabe, A. McDouald, Corunto ; A. H. McDuugall, Cannington! D. McGillıvray, Goderich; R. McKnight. H. W. Micklo, Toronto; R. Moir, Henssill ; J. W. Mustard, Uxhridgo; A. E. O'Meara, Port Hope; S. J. Robertson, H:rriston ; W. L H. Rowand, Walkerton; O. L. Schmidt, Sobriuguilio ; A.Y. Scott, Stratford ; T. W. Sinppson, Orangovillo; G. A. Smith, Winthrop ; J. Smith. J. C. Smith, Galt; T. Trutter, Woodstock; F. C. Wade, Owen Sound ; A. Watson. G. B. Wiltsie, Farmensville ; D. J. G. Wishart, Maduc ; H. Wissler, Salen ; H. J. Wright, Toronto;

The following is a list of the medallises in the various faculties.
Auts-Classics: Gola, D. Mctilhvray (Godench) : silver: H. L. Dumn (Wellard);-Mathematics: Gold, J. M. Clark (St. Miny's1; silver, A. F. Anies (Cainsville);-Modern Langatages : (iold, H. J. Wright (Toronto); suver, E. F. Gunther (To:onto);-Natural Sciestes: Gold, G. A. Smith (Winthrop); silver. T. P. Hall (Hornby); Micutal and AIoral Philosophy: Geld, W. F. W. Greelman (Nova Scotia); silver, W. H. Dlake (Toronto).
Law-Gold, A. V. McCleneghan.
Medicine-University gold, K. R. Wallace; University silver, J. T. Duncan ; Strar gold, R. R. Wallace.

Tho following is a list of the successful candidates for scholar ships in tho various facultios:
Law.-Second year-A. S. Lown ; Thurd year-F. T. Congdon.
Medicrive.-First year-1, H. N. Hoople: 2, L. Carr. Second ycar-1, J. W. Clerke ; 2, A. F. McKenzi. Third year-1. W. J. Robinson; 2, F. J. Dolsen.
Arts-Classics-First year-1, H. Haviland; 2, W. M. Logan and J. Ross; Second year-1, W. J.J. Trohey; 2, R. A. Iittle; Third year-1, J. C. Robertson; 2, A. Crichton and H. R. Fairclough. Mathsmatics-First yeai-1, R. A. Thompson; ${ }^{2}$, A. C. McKay; Second year-1, J. Cuthbert; 2, M. Esight; Third
year-1, G. Ross; 2, T. G. Campboll. Mfodern InaliuagcsFirst year-F. H. Sykes; Second year-w. H. Smith; Third year-J. Squair. ATental and Moral Science-Second yearG. Sale; Third year-J. S. Campbell. Blake stholurshop-W. S. Ormiston. Genemi Proficinury-First year-1, Heber J. Hamilton; 2, $r$ Hunter; Second year-1, T. C. Rohinette: 2 , W. G. Milligan.

The following are the prizomen for the year:
French Prose-J. Squair. German Prose-J. Squnir. Oriental Lanmuyes-First year-G. Sala: Second year-J. 12. Stillwell; Thid Year-J. A. Jaflary Fourth Year J. Hamiltun.

The proceedings of the afternoon closed with an nddress from the chancellor in the courso of which the explained the stops taken recently by the Scmate with a itow to ndding to the tenching powor of University college by the creation of fellowships and lectureships, and gave somo useful practical advice on cducational matters in general.

## the annual dinner.

cane off in the evening in tho college dining lall, Dr: Wilson, president of University collego presiding. Tho speeches were more purely acalomical in tono than speches on suchoccasionsgencrally are and this feature contributed not a littlo to the success of tho rounion. The spech of the Rov. Principal Grant of Qucen's collego was especially outspoken and vigorous in its protest against small college enduwments and it won for him frequent applause.

## OTVAWA UNIVFRSITY CLOSING EXERCISES.

The proceedings in connection with the close of tho late session of this institution aroused this year more than tho usual amount of public interest. Ottawa unversity is under the auspices of tho Roman Catholic Church, but on the platform on graduation day a number of persons prominently connected with educational work were presont, inclnding Principal McCabe of tho Ottawa normal schnol, Principal Mcirillan of the Ottawa collegiato instituto. and Dr. Baptic, science master in the normal school. A practical address was delivered by Dr. Pholan, professor of anotomy in Kingston modical school, and an alumntus of Ottawa university. An address was delwered in French by the Rov. President of the institutio $n$. The degree of B. A. wis conferred on Francis B. Latchfor of Ottawa and T. O'Hagan, principal of the Clintham R. C. separate school. The degree of Bachelor of Literature was conferred on several candidates, and the degree of M. A. on Dr. Plelan, Prof. Denyden, and Prof. Marson. To Mr. O'Hagan fell the distinguished honour of reading the salutatory poom with the appropriate title "Profecturi Salutamus."

## MANITOBA UNIVERSITY CONVOCATION.

The meeting of the convocation of this university for the conferring of degrees was held at Winnipeg on the 21st of Junc, the following gentlemen connected with the mstatution being present:The Nust Reverend, tho Bishop of Rupert's Land, chancellor, in the chair; Hon. Joseph Royal, M.P., vice-chancellor; Mr. T. A. Bernier, registrar; Rev. Dr. Lavoie, Rov. Prof. Cherrier, Rev. G. Dugast, Ven. Archdeacun Cowly, Von. Archdeacon Pinkham, Rev. Canon Matheson, Rev. Prof. Hart, Rev. O. Fortin, Rov. R. Young, Hon. A. A. C. LaRiviere protincial secretary; Mr. Macarthur, and others. A considerable number of ladies occupied seats on the flour of the house and there was a fair attendance of gentlemen interested in the educational work of the province.

The chancellor in the course of his address stated that 33 can. didates had come up for examination, and that all these had como from the colleges affiliated to the university. It was expected that no fewer than 18 candidites would enter on the unversity course next year. He referred t" some of the questions requiring the attention of the councl of the unversity, amongst other thmgs there was needed a more precise definition of the mathematical subjects for examination, especially for honor candidates. The relation uf women to the unversity examinations required to bo defined, and the question of granting other than arts degrees had become important. The university was not yet well equipped with funds, the work of examination having been $d$ ne gratuitously. He complimented the colleges on their growir? efficiency and avowed his preference for giving government aid to the university, but though gomething might be done for the colleges as well. The graduates from St. John's college were presented tos the chancellor for their degrees by Rev. Canon Matheson, whoalso, in the unavoidable absonce.
of Rov. Prof. Hart at this particular stage of tho procoedings, presented tho graduates of Manitoba collogo for similar honors.

Rev: Prof. Cherrier noxt presented tho graduates from St. Boniface college, who in their turn were admitted as bachelors in arts.
Tho following studonts having boen thus presented by their colleges wero admatted by tho chancellor to the degree of 13 . A. in the usual form:-Janes Mackay, St. John's college; R. G. McBeth, Manitoba college; T. Warburton, St. John's college; D. J. Tait, St. John's collego; Noil Maccallum, Manitoba collego; G. Albort Botourney, St. Boniface college; A. M. Campholl, Manitoba college; R. 1. Sutherland, Manituba college.

The chavcellor also presented to the medalists the distinctions to which they were entitled.
The registrat, Mr. T. A. Bernior, presonted to the chancollor tho candidates for ad ellndem degrees. The following, who wore present, came forward and woro nelmitted by tho chancellor in due form:-
T. C. L. Armstrong, M. A., university of Toronto. Jacob Burean, LL.B., university of Laval, Quobec. Rov. H. T. Losilo, B.A.; Trinity college, Toronto. J. F. Landry, M.D., B.A., Laval university, Quebec. J. E. P. Prendergast, B.A., LL.D.', Laval university, Quebec. G. G. Mills, B.A., Victoria university, Cobourg. A. Diwson, M.A., university of Toronto. C. Sifton, B. A., Victoria unversity, Cobourg. The following candidates, who were not present, were also admitted, ad cunde.n gradum:-S. J. McKeo, 13.A., university of Toronto. Richmond Shafner, B.A., university of Acadia, N. S. Paulus Cherard, B. A., university of Laval, Quebec, EdwinL. Bayington, M.A., Victoria university, Cobourg.
Mr. J. Mackay of St. Jolm's college was awarded the GovemorGeneral's silver medal for classics, and Mr. R. G. McBelt of Manitoba college the university bronzo medal. Mr. G. A. Betourney of St. Boniface college wis awarded a silver medal for moral and mental science, and French course, M A. Campbell of Manitoba collego was also awarded a silver medal for the English course in the same department. Mr. J. A. McKay won the Governor-General's bronzo medal at the previvus examination for proficiency in clasaics, mathematics, and botany.

## ACADIA COLLEGE-CLOSING EXERCISES.

The anniversary exercises of Acadia college were held on Thursday, June 1st and were of more than usual interest. The spacious assembly hall of the college was crowded with a brilliant andience. The orations of the graduating class were as follows:-England socially under tho Tudors-Ernest A. Corey, Havelock, N.B. The problem of Russia-1Rupert W. Dodge, Kentville. The Indians of Canada, their present and future-Snow P. Cook, Milton, Queens Co. The making of the English Bible-Frederic D. Shaffiuer, Williamston. The love of nature in Latin poctry-Arthur G. Troml, Dartmouth. English puritanism-Arthur L. Calhoun, Summel: side, P. E. I. Daniol Webater-Herbert W. Moore, Portland, N. B. Ancient and modern cosmogonies-F. Howard Schofield, Black River.

After the delivery of the orations the conferring of the degree of Bachelor of Arts on the graduates took place as follows:-Ernest A. Corey, Havelock, N. B. Rupert W. Dodge, Kentville. Snow P. Cook, Milton, Queens Co. Frederic $\mathrm{I}_{\mathrm{L}}$ Shaffner, Williamston. Arthur. G. Troop, Cartmouth. Arthur L. Calhoun, Summerside. Herbert W. Moore, Portland, N. B. F. Howard Schofield, Black Rivor. J. G. A. Belyea, Purtland, St. John, in absentia.
President Sawyer then announced tho following honorary degrees : On Rev. E. M. Saunders, Doctor of Divinity. On Hon Sir, Charles Tupper, and Hon. Dr. Parker, Doctor of Civil Law. On Prof. D. F. Higgins, Doctor of Philosophy. On C. W. Roscoe, (inspector of schools for Kings and Hants counties), Master of Arts, cctusa hotloris. These announcements weroreceived with demonstrations of applause. Dr. Saunders, Dr. Higgins, and inspector Roscoe in response to an invitation from president Sawyer briefly addressed the meeting in acknowledgment of the honor conferred upon them respectively.

The president also announced that the governors of the university had at their recent meotings docided upon more fully availing themselves of the privileges allowed them under the college charter and act of incorporation, and in pursuanco of such decision had appointed six fellows and twelve scholars to be assnciated with and become a portion of the governing body of the university of Acadia college. The following are the names of the gentlemen appointed :-FellowsT. H. Rand, D. C. L.; Rov. D. A. Steele, M. A., Rev. Dr. Saunders, Judge Johneton, Silas Alward, Esq., M. A., and Rev. S. B. Kempton, M. A. Ncholaro-Rev. A. Cohoon, M. A. ; J. Parsons, B.A.; Rev. G. O. Gates, M.A.; H. C. Creed, M. A.; Hon. Neil

McLeod, B.A. ; J. Y. Payzant, M.A. : B. H. Eaton, M. A. ; Rov. Dr. Hopper, Rev. W. H. Warron, M. A.; J. A. Durkee, M. A.
Tho place of the customary oration before the nssociated alumni was this yoar filled by a most approprinte sorvice commemorative of tho lifo and labors of Dr. Cmmp, ox-president of tho college. Eloquent and appreciative addrosses were delivered by tro following gentlemen:-Rav. Dr. Sawyor on the "(leneml history of the deceased scholar;" Rov. Dr. Bill, on "Dr. Orimp as a proachor;" T. H. Rami, D.C.L., on "Dr. Gramp as n tencher;" A. Langloy, on "Dr. Cramp as a temperance worker."

The manual dinnur of the nssaciated alumui was a brilliant oceasion. Toasts wero given and rosponded to as fellows:-"Tho facully of Acadia collego." Responded to by Dr. Sawyer and Dr. Higgins. "The graduating class of $1882 . "$ Ilesponded to by H. W. Moore, B.A. "The governors of Acadia.", Responded to by B. H. Enton, M.A. "The follows and scholars." Responded to by Rev. W. H. Warren, M.A. D. B. Woodworth was ralled for by some friend, and in response spoke oloquently on the Grent North Wost-Manitoba. "Our sister colloges." Responded to by Prof. Forrest, of Dalhousic college, and Dr. Hall of the normal school at Truro. "The Pross." Responded to by Rev. R. Murray, of the Preshyterian Witness, and S. Selden, of tho Christian Messengci: "Visiting friends." Responded to by Dr. Willard, of Providence, R.I., a toacher of forty years ago in Horton acalemy. "The ladizs' seminary," spokon to by Rov. G. F. Miles.

## Tercherg' ${ }^{-1}$ ssociations.

The publishers of the JOURNAL will be obliged to Inspectors and
Secretaries of Teachers Associations if they will gond for pubicaSecretarlez of Teachers' Asgociations if they Will gend for pubiccameetings held.
N. Srmcor. - Held in the model schosl, Barric, on the 0th aut 10th June. The attendanco was large, the programine well supported, and the several subjects received such au amount of good practical criticism that much import unt information was elicited. Shurtly after 10 a.m. the proceedings were opened by J. C. Morgan, M.A., I.P.S., presilent, who stated that while he thought the conrention shonld be held on two teaching days, and intended to carry out his view on future occasions, he had good reasons for the change this time, as it enabled him to obtain the invaluablo services of Mr. J. L. Hughes for the public lecture, and an audress at regular session. The minutes of previous meeting were real by Mr. J. B. Carruthers, sec-treas. and adoptel. Mr. D. Finlayson showed how he would teach grammar to a clase preparing for entrance examination. Mr. H. B. Spotton, M.A., thought common errors of false syntax should be noted and corrections made; if such were given in the text-book it would be a great advantage. Messrs. Hunter, Harver, McKee, nnd others, continued an advantageous discussion on the subject. Roll $w$ then called, after which Mr. W. Finney gave an exposition of the several inethods of teaching vocal musis which, hemaintained, should be taught in the public school. He c mmended the tonic sol-fa as the most easily acguired and satisfactory in result. H. B. Spotton, M.A., H. M., Barrio coll. inst., gave a very ir teresting and able address on the "The future of the intermediate exar ination." He had heard it said that "the track of the intermediate exa sination is inarked by the whitened bones of the candidates" through t) e failure of so many to pass. The presence of a largo number at these examinations may be accounted for by the fact that a result's fee of about sixty dollars was secured to the school for every candidate whe passed. The objections were that tho schools were turned into "education mills" to the mental injury of the pupil; the continual strain upon the teacher was injurious to health and many had to give it up; the teacher's abilities were often judged by the number whom he succealed in passing, and he often unjustly suffered thereby. It is frequently difficult to get pupils to go up for examin?tion, especially as passing is only an honor which counts for nothing in the professions except that of teaching; pupils would willingly forego this honor but they were urged to it for the sake of the fee. Bonuses were offered by teachers to draw away pupils from the schools of their own counties, which was the most unpleasant ferture in the matter. Some schonls had sent out advertising agents to "show their wares" and druw away pupils from good schouls. On the other side of the question the condition of the high schools is enormously improved. Mr. Spotton criticised the marking at the last examination showing some anomalies that obtained. The present difficulty in the high school is how to manage the arrangement of classes so as to separate those preparing for teachers from those who are not candidates for examination. He read from Dr. McLollan's reyort recommending that there should bea distinction made; and he (the speaker)
would urge a distinct class for botany, chemistry, and physiology. On the motion of Mr. Harris, se:onded by Mr. Hunter, \& committee was appointed consisting of Messrs. Spotton, M.A., Williams, B.A., and Ryerson, 13. A., representing tho ligh schools, and Messrs. Harvey, MeKec, and Wnugh representing tho public schools, to embody the recommendations made by Mr. Spotion and to bring in a roport. Mr. T. Young gave a prelcction on the "Importance of history" and the objects to bo kept in viow in teaching it. The matter was wisely doalt with and a very practical discussion ensued. The president would agree to havo history tnught to children if the first two letters of the word were deleted and it became "story." Mr. G. McKinnsll read an essay on loook-keeping which was well criticised by Messrs, Finney, Harvey, Jonison, and Furlong, and on the motion of MIr. Harvey a committeo consisting of Messm. ALcKinnell, Jenison, and Furlong was appointed to consider the place it should occupy in public schools, and to report. Mr. Julnston read a short maper on "Composition" which opened up a most profitalilo discussion on the subiject, in which Mr, MrKee of Orillia gave some allnirable hints, und Messrs. Finncy, Jenison, Sneath, and IIume took part. Mr. Little's paper on "Elcmentary arithmetic" was ratherinore prolix than the subject warranted and presented no debatable points. The report of the committoe on book-keeping was postponed till noxt convention. Mr. D. Boyle, representing the Canada Publishing Co., addressed the association on the merits of the series of reariers to bo pablished by that house, and Mr. J. L. Robertson, from the firm of W. J. Gage \& Co., exhibited a set of now Canadian readers and pointed out the many features of excellence the books possess. On the motion of Mr. Spotton, seconded by Mr. Williams, a committee was appointel to examino thess series and report at next convention. In the evening an apprecintivo audience assembled in the Town Hall to enjoy a lecture given by J. J. Hughes Esq., inspector of schools, Toronto, on "Schoolroom lumor." The chair was occupied by the president of-the assuciation, and at the close of an address in which the lights and shailows of school life were inimitably and graphically dopicted, the talented lecturer was, on the motion of Mr. Harvey, seconled by Mr. Jenimon, accorded the thanks of the meeting by rising vote and acclamation. Sccond Day. After roll-call Mr. Hughes showed how drawing could be made a useful and pleasant branch of public school stuly, which made such an impression on the meeting that Mr. Sneath proposed, Mr. Humeseconded, and it was unanimously resolved, "That when the school of art is established in the normal school, Toronto, the teachers in training be instructed in the principles of drawing." Mr. Spotton brought in committee reportas follows:-"That this association desires to express its strong approval of tho proposal to separate the intermediate examination from the public school teachers' examination, to restore the intermediate to its original position as a promotion examination, and to give greater flexibility to the course of students by the introduction of an optional group comprising botany, chemistry, and physiology; and this association is also of opinion, that, in order to obvi ate the evil of cramming for teachers' examinations, a minimum period of preparation, sijtwo years after completing the work of the fifth class in public schools, should be insisted on." study of educational works and the the importance of individual of their subject matter at the the benefit arising from the discussion mi annual meetings was brought beiore ore port, which they did as follows:-" Your committee appointed to recommend an educational work for study between now and the next convention beg to recommend Park's Manual of Methods as a suitable work for the purpose in view. They also recommend that the cirulars issued by Stieger \& Co. in reference to the kindergarten be sent for, so that the members of the association may obtain some lnowledge of the working of that system." J. M. Hunter, M. A., presented the report and mored its adoption; it was seconded by Mr. Sneath and carried. Miss C. Lafferty, Orillia public school, with a sccond class brought from her own school, excmplified her method of teaching reading. If results are the best proof of a method Miss Lafferty's is singularly successful, for the little ones read with a fluenoy, modulation and general intelligence that reflected the highestcredit on hersystem, and their neatappearance did honor to their town. Her plan is to read a passage first herself, and get the children to underline emphasized words, then to read simultancously; this is done as a preparation. Next day the pupils make their own corrections in style, pronunciation and inflection. Mr. Hughes complimented Miss Lafferty highly on her success, and several of the teachers present expressed their gratification at giving them such an admirable plan to follow up in their own schools. Messrs. Jenison and Neil Campbell were appointed auditors. The financial report was read which showed a balance to credit of $\$ 20.10$; passed. The president vacated the chair and proposed a hearty vote of thanks to Mr. Rughesfor his vaiaable assistance; seconded by Mr. Sneath and carried with applause. The election of officers resulted as follows:-President, J. ©. Morgan, M. A., I.P.S. ; vice-pres., J. M. Hunter, M.A. ; sec.-treas., J. B. Ca ruthers; managing com., Miss Lafferty, Messrs. G. Sneath, Young, Campbell, and KcKee. Delegatestoprovincial associationMesars. Harvey, Hunter, and Sneath. After a few eloguent words of encouragement from the president, and the transaction of some routine business, the convention seljournel to neet next time in Orillia.

Nonta Honos.-'Tho rozular semı-annual mecting of this association was held 21 the central school, Brusools, on Tharsilay and Friday, May 2ithand 20th. In the absence of the presulent. Mr. John Shaw of Brassels occupied $t$ charr white Mr M.lestm ishictionifiatel as secretary. Mr. Sparhug's essay on "S.lf Culture of 'leachers,' was evidently thi" work of considerable thought, pounting out clearly that teachers, when onee they have oltament therr ceetituate., shoubl not rest upun thear oars, but keep the:nselves thorunghy peite i, a current wents, ami nompese their mental status by a diberial perincal ui chome works Mir. J. L Kuhrrtsun, representitive of Messre, W. J. Gage \& Co., abldressed the meetung on the subject of reading b i...ks. He celhbitel a new serres by Messrg. Gage © Co. whele for chute selectiva, artisuc fimsh, and general ex cellence far surpasses anyth ; we have ever been. A committee composed of Messrs. Dewar. Dufi, Henderson, McKay and shaw, brought in the followng report on thas sernes whech was unammunsly alopted:"iVo are of opunum that notwithstanding the amoyance to parents arsing from a change of text books, our present randers owing on their many defects should be superseded liy a mane destralile series as soun as they can be pederously matrolucel. Having carefully examanel the scries of rapeders pubhwhel by Messrs Gage \& Co., we can hearthiy recommend tiem as mevery way superior to the series now in use, and we belleve that the:r introdiction math, the schouls of the country would ler a decolent beneft." (Signed) Areh Dewar, 1 1'. S. John Shaw. H. M. Brussels ceatral selıool; R. Henulerson; H. M. Blyth P. S.; W. G. Duff: H. M Roxboro P. S.: A. M. McKay, H. M. Cranbrook P S. Mr. Henderson read an metersitugessay on - How to eultivate literary taste in schools." Mr. Robertson's cxemphatication of the "Tome sci-fa system" was well receved. In the eveanng a puble entertanment was giren ma the Town Hall. The fature of the evenmer was Mir. Rub. ertson's address on the "Work aud tare of tuachers.' Messrs. Duff and Rubertson each gave songs, and Messrs Wallis and Stewart and Miss Reinhart, readugs. Mr. Sparlang agan read has cessay on "'s Self culture of teachers." Un Fruday Mr. W. E ciroves gave a short discourse on "Practical arithmictic," wheh brought on a bref and anteresting discussion. Mr Robertion, of Toronto, addressed the teachers on the subject oi "Readag." He first pomtet out the great mportanee of this subject, as through it wo derive our howledge of all the sciences. He
gave a humorous diescription of the old method of teaching the alphabet, gave a humorous ciescription of the old method of teaching the alphabet, of teac une the subject. He gave some amusng' examples of the sing-song methue of rcalling, atd ponted out many oi the erro sumto whech teachers and others fall in teachang and practisny, reading. He advised a sparing usc of smul anevus readug an schouls, and showed how an mteresting exercise maght be made out of word-building. Mr. Robertson was listened to witi rapt attention while deliverng his address. On concluding, Mr. Kobertion wa- tendered the thatiks of the assuctation for his able audiress. The valedictory ot late seceretary treasurer, Mr. A. M. Taylor, was read before the association, after which as vete of thanks to Mrr. Faylor was moved by Mr. Dewar, seconded by Mr. Duff It was also moved and seconded by the sane that the saledactory with the per mission of Mir. Taylor, be pabished. A resolution of cundolence to the tamply of the late James Hartly Esy. Mckillop, was adopted and the secretary mentructed to f rwand sime to Mrs Hartly. Also a resolution congratulating the late sec. treas. Mr. A. M Taylor on his appointment
to the head mastership of Ingersoll central school was adupted to the haud mastershup of Ingersoll central school, was adupted. Mr. Dewar, I.I.S., alidressed the teachers on the question "Is the cultiva-
toon of morals suffictently attended to in the public schocls". He tion of morals sufficiently attended to in the pubhe sehools". Hy
pointed out the most prevalent faults common among puphls in the pointed out the most prevalent faults common among pupls in the ting, \&c. and showed that the medulgence of these habits in youth de praved the morals and destroyed self- relbanee, whach is an important factor in forming good moral character. Mr. Dewar's remarks were pointed and forelble. He also refereed to the neghanence of roxte teach ers $2: \operatorname{maling}$ out the anmal and sems annual reports. The clection of officers was next called fur and resultell as follows President YIr R. Henderson, Blyth; vice presulent. Mr. W. Duff. Roxboro; :ec. treas. Mr. W. E. Groves, Wingham. Mr. Fergison of Wanglam, was apporntal deleeate to provincral association in Turonto. Messrs. TV T. Bray and Dr. McDonald, Wingham were apponited auditors. Tho inecting then adjourned to meet agan in Seaforth in carly autuma.

East Grey. - The scmi anmal meetmg of the East Grey teachers' association was held at Meaford on the 2 eth and 26 th ult. Nearly all
the teachers in the divesion, and also trustecs and others were present. the teachers in the divesion, and also trustecs and others were present. ness was first proceeded with. After the reading of the minutes of the orevious mecting by the secretary, Mr. Farewell, Messrs. Grier and Inendereon were apponinted delesatcs to the annual convention of the Ontario teachers' association. The president explained the reason for the absenec of Mr. G. W. Ross, and statel that it was impossible owing to other engagements on the same days, for the publishers of the Casida Scioon , Jurrisil. to send a representative to the present mecting. He spoke of the excellenco of the Jot rasas, and thought it would
be well for the assmation to consider whether cach member should be be well for the assmeiation to consider whether cach member should bo
sapplied wath a copy out of the assocaston funds. It was then decided
that each paying member should reccive a copy from the association. The regular progrnmme was then proceeded with. The president delisered an aildress on "The Biblo in tho public school." Ho belioved whe Biblo should bo read in our schools, but saw serious objections to its use as a text-book. He was afraid its introduction as a text-book would canse less reverence for the Word, lead to denominational teaching, and seriously imparr the working of our almirable school system. The manin agents in religious teaching must bo ministers, sabbath sehool teachers, aul above all parents themselves. MI. John Whyte then explained his method of teaching "Dictation." Mr. A. Grier, inspector, discussed "School law," and dwelt especially on the changes made at the recent session of parlianent. Mr George Lindsay read a paper on "Superamuation." Ho disap, roved of tho sliding scale system of payment which ho character,zed as iniquitons, and in the interests of the well paud teachers of the towns ind cities. According to this system, ho saill, pensions would not be given according to services rendered, but moncy paid -an unheard-of thing. No action was taken as the Association hail disposed of the matter at a previous meeting. Mr. Henderson With the aill of tho blackboard explained his method $0^{\text {c }}$ teaching "Music" Ho thought that music should bo taught in all our schools, and said by a little attention wery teacher would be able to teach it. Rev. Mr. Clarl in his addicss on, "Memorics of Dr. Ryerson," dwelt mostly on the great erducational services of the Reverend Doctor. Ho set him up as an cxample to young men of what industry, persorerance, and moral rectitude can accomplish. An excol!ent essay on "Homo training," was read by Rev. Mr. Johnston. He spoko of the importanco of good carly training. and pointed ont the many mistasics malo by purents. Mr. Jas. AcMdillan discused "Practical cducation." Ho thought much of school study was useless save as a mental exercise. Ho recommended more attention to Botany and other sciences. Rer. Mr. Large read a paper on "Fictitious Reading," showing the evils of so thuch light frivolous reading, ahd the importance of improving time by the reading of what is useful and practical. The discussions which followed the introluction of each subject were interesting and profitable. Thu entertainment on the ovening of the first day was a decided success. The cornet band with the aid of Mr. Kelly, a noted vocalist, and others, made a pleasant and enjoyable ovening.

Nourn Yonk. - The teachers of North York convened at Newmarket on the 26th and 27 th of May. The minutes of the previous evening were, after a slight correction, approvad. Miss Birnic of Newmarket mudel school, was called on to teach a class of children to spell. Mer method was goou, but provoked considerablo criticism, some teachers thanking tume could bo savel by spelling orally instend of adoptimg her methol of writing The subject of uniform promotion exaunination was then discussel. It was thought a desirable plan, and a committco was numed to collect infurmation and to lay a plan before the convention at its next mectang. Mir. Armstrong, heul master of Aurora school, took up lassubject, "How to teach composition in school" He spoko of the value of the knowiedge and the disgrace atteading the lack of knowtedge of this important branch. He thought the subject should bo comucncal in the lowest classes and continued to the higher grades. The conveation agreed that it was injurious to assiga such subjects as $\because$-Imbition," "Virtue," \&e., \&c., to pupils for composition as their mints was not able to grasp them thoroughly The nominating commitice reperted at this stage nd the following persons were clected to wfice -Mr. Fotheringham, inspector, president; Mr. J. E. Dickson, H. S. M., vice-president ; Mr. W. F. Moore, principal of Nob?ction schowl, 2nd vice pressident ; Mr. S. E. Jewitt, secretary and treasurer; Mhes Anme Birmic of Newmarket, librarian; Mcessrs. Rannic, Arrastrong, Molland, MacPherson, and Stonc, managing committes. Proicssor Hunt man was presentand gave a very intercating lecture on the phonio methorl of reading. A voteof thankswastendercel tohim Mr W. F. Moore read an excellent cusay on "How to secure the co-operution of the pupils." Messrs. Dickson, Moore and Rose were appointal to draft a mennorial of regret on Dr. Rycrson's death. Mr. Love sang the "English Lion"with good effect. Mr. Marton of Neumarket high school, illustratcd hismethod of tcaching decimal factions. Mr. Martou secms to bo master of his subject (mathematics) and deserred the vote of thanks that was tenilered to him. At the evening session Mr. W. F. Moore, sang Tennyson's new song "Hands all round;" Miss Birnie rendered "The last Rose of Suramer" in good style (instrumental) Tho Petch quartette choir eang a few piecos very well, also "Our Homes," by Mr. Pctch. Mr. F. Spenco from Toronto, spoke for an hour and a half on "Brain conlicts.". This gentleman has the trac gifts of an orator and dealt. with his subjoct in masterly stylic. Miss Bimic sang a fine song in an appropriato manner. On Saturday morning Prof. Huntsman gave a hali hour's lecture on phonography. Mr. F. Spence took up the subject of "Temperance in school." He said he would teach it as lessons in hygiene. The lecturo was good and instructive. Wiss Watson of Nobleton sang "Xestcriay" very niccly. Mr. Seott of Toronto, gave two excellent addresses on History and Fourth Book Literature. Both lectares were full of thought and showed Mr. Scott to be a man of originality and ability The couvention thicn adjourned to meet at the call of the president.

> Linnox and Addinaton. -The semi:annual meeting of this asococia tion was held in the model sohool building on Thuraday and Friday, the Mr. Bowerrian call The firtot day at $100^{\circ}$ clock a. m., the president Mr. Bowernian callod the moeting to order and congratulated the teachera present on the large turn-out at the opening, there being over sixty tenchers present from all parts of the county, some coming over forty miles to. te present on that occasion. After the election of officera the preeident thanked the teacbers for the honor they had conferred upon him in agnin electing hims to the very important position which he oocupied. Ho referred to the great loss the cause of oducation had suntained in the deanth of two of ita leading educationista, DF. Ryerron and A. T. Marrling, M. A., high school inspector, and suggestou that something should be done, before tho meeting broke up, towards drafting a memorial to be placod on the books of the association. Mr. Burrows then gave his method of teashing the R. R. systems of Canada. It was evident from the way in which he handled the subject that he had taken a groat deal of time in the preparation of the subject. His effort was highly appreciated by the teachers, and received a hearty applauso. The president, called attention to some recent changes in the school regulations. lit. That hereafter third class certificates shall be provincian. 2nd. That thie renwal of third class certificates shall remain with the Mininter of ducation, but annual reports as to the merits of such teachers sigrod by the inspector and the trustees of the section which he has tanght are to be eent to the Minister. 3rd. There are to be district.thirdiclass cartificates. For the purpose of granting such certifi. cates the Minister shall appoint a board of examingers. The subject of promotion oxaminstions was then taken up. It was found that the system employed heot year was not altogether succeasful, owing to the ly appon the tencher, which of eoft rooting the examination rested entire. In pann the teacher, which left room for a good deal of disatisfaction
in the minds of anspicious parents. It was finally resolved to divide the achools up into groups of five schpols each, and that the toenchers of each group should form the examining boariz for the group. The examinations are to be helditn Ouxi and Septamber of each year. A commit. tee wis then appointed to wait upon the county council and ask for a small grant to dofray the neccoamry expensesforcarryingon the promotio. nal examinations. The meeting then adjouried to meet ggain inthe even. ing at 8 occock, in the Town Hall. At the appointed time $a$ large Wilson. The first subject on thas occupied by thie warden, Mr. O . quetion by Mr. J. W. Black, H. XI. east ward publicecliool. Mr. Blicy reviewed the whole aubject, from the time tho teacher taught it $\$ 5$ per month and.board, with the extreme pleaneure of boanding around, up to the preaent time. The chiairman then inirited the members of the an. ocinc Mr. Irwin, H:M. of Bath public school gavo an-zdmirablo easey, on the reciprocal relations between toachers and parontia. On Friiday morning tbe meeting opened at the appointed time when most of the. ©sechers were present. Mr. Rose, H. M. of Selby public achool, then gave hismethod of tenching mental arithmetic which whe woll recived. Mr. Tintrale, H. M., Newbirgh public school, being called on, gaic his method of teaching literature $:$ he gave some very valuable hints in that direction. The salury question was then taken and wis warmly discussed by Mesers. Tinsdale, Bo werman, Hicks, Mrartin and otherr. Mr. Patton, who had bein a tocecher in this province for over a quarter of a century, was then called on, and gave of boourding antereang acoount of his firtst school, and some of the plowerese of boarding arougn. The committee appointed to draft a memorial being callod on, precentod the following:-Whereas, nince our laut sourion it has pleched God in His divino Providence to remore tro of our eminent edncationiste, in the person of Dr. Ryerson, the distiinthe toecciers of Lennox ound the rocechers of Lennox and $\Delta$ ddington, desire to put on record our high apprecistion of the serricos resdered ty them to the canne of oducation,
and our regret at the lcas austained not only by their immedinto frienden bnt aloo by the province at large by their remoral. Sigond, C. Femenden W. M. Irwin, J. Bowerman, I. Burrows, D. Hicks, S. E. Mabee. The meoting adjourned untili 1.20. On rouming, Mr. F. Ruttan, Be A, and to give a lecture nan tural science of Toronto unireraity, was called on nox and Addington He occupied two hours and a half and whe liten. ed to with marled attention by all present. On taking hian sant he was groeted with prolonged applause by tho teachers, after which m vote of Town Hall at 8 ociclock $p$. $m$., when Miss Robertoon gave to the ponition of the kindergartan syytem, wich she exemplified ina manumer which left no doubt int the minds of the audience aseembled that ahe thioroughly nuderontood tho anbject. A fair audicnce greetei Miinn Robertion, and all were well pieasol with the entertaiument.

Ortasio--Held in the high school, Uxbridge, ou 2nd and 3rdaTane The attendence was rather small all through the several seacions, and many of thono whow names were on thr piogrramme did not put in an appearance. The procoedings wire opeado by. D. McBride, M.A., H.
A. Port Perry high mechool, preceident. Tho minutee were rowd by 'the
sec.-treas, Mr. A. G. Henderson, and on the motion of Mr. D. Jennings, adopted. Mr. Henderson, in the absence of Mr. Eddy, introduced the subject "Roading" and dwelt more "particularly on elocution. A spirited discussion on the exerciee ensued, joined jn by Mearrs. Jen nings, McBrien, I.P.S., Lockyer and others. In the ifternoon Mr. Hen. derson! gave an extremely practical and useful address on "Book-keepng" showing how it could be advanitageously taught in the public achoole by adopting the simple accounts he had ruled on the blackboard, and going through actual business transactions with the pupils. On the motion of Mr. Magee, M.A., H. M. Uxbridgo high school, seconded by Mr . McBriev, I.P.S., a cordial voto of thanks was unanimously givan to "Fourth Book Literature" "nd addreas. Mr. D. Jennings then took up jects in bringing Literature," and advocatod the teaching of collateral subjects in bringing out the whole sense of the lessons, suchras geogriaphy, wrammar and analysis, Latin roots, \&c. Mr. Jennings was listered to with great attention and at the conclusion of his able and extremely practical address was warmly applauded. The subject was pursued in $\frac{\text { discussion with much ability by Mesars. McBrien, J. Willis, J. Brown, }}{\text { H. }}$ Whitby hitby model school, and others. G. H. Robinson, B.A., H.M. Whitby high achool, proposed the following resolution which was seconded by Mr. McBrien and carried unanimously:-"Resolved, that the county of Ontario tenchors' association, upon this the first occasion of its meeting after the death of tho Rev. Egerton'Ryerson, D.D., L.L. D., late Chiel Superintendent of Education for the province of Ontario, desizes to express, and to place on record, its sense of the immene debt of gratitude the country owee to him under the blessiig of Providence in founding and fostering our national system of edxicution, the pride and heritage of our country; and to exprexs the senise of the revere loss his active pg profession hais sustainet in the death of one who, both in his active work and his retirement; was in every rerpect the teachers' friend." The'ingpector, in a few earnest words, enlogizod the memiory McCle diskingaiahed deceared, snd Rev. A. Daridson, and Rev. J. A. Mim for him for edncation. Mr. Robinson then proposed the following resoln Minister of Education to pin of this associntion, the granting, by the Minister of Education, to private schools, having no connection with the state, and under no atate cointrol; the privilege of haivisg the emtrance examination and the intermedisto examination, as obtain in the high schools, conducted within their walli and for the special adivantagie of their pupils, is a departure from the spirit of our ciucational syistem and the manner in which it has hitherto been interpreted; is likely to lead to great abuses; to injure the reputation and finances of the notion. al schools; to introduce into our school system other questions than education ; and that such priviloges should be withdrawn from private schools and confined atrictly to the nitional schools. Aleo, that a copy of this resolution be forwarded. to the Minister of Education." It wat soconded by Mr. Magee, and after nome digcainion joined in by Mewry. in wings, Lavidson, Henderson, Magee, Croeby and Rev. A. Davidíon, in which it was alicited that Pickering college was granted the privil: eges mentioned, the resolation was pot and carried nem con. Mr. JenJ. Brown, formis thanked hy the amociation, on the nidion of Mr. w. Brown, for his addreas on literature. Second day. 'The forenoon was devoted to a dincumjon on text books. As regirds reidiers, Inirpec.; or McBrien said the saries now in uie were "the wortin Chiristendom," Co. spose in high terms of the new series published by W. J. Gage t Co. Several teechers oxpressed dissatiafaction at the present serien, iend ter some discussion, the mitter was relegated to the standing cominitiee to report at next somsion.

Mr. Jennings tendered his resigmationis vice-pretident of the association, as he was about to leave for 'British Colnmbia where he had acoepted the head masterahip of a school in an Indian misaiopary settlement. He expresed the cordill foelings he poseessed for the association daring the partten years and the bind relitionship that existed botwien the members. and himself, and said'thint he shonld always remember them in the far-of land where his jenee of daty called him and where ho felt the lessons of experience he had earned while a member of the association would be turned to good acc. count. Many of the teachers present teatified to the worth and excellence which endeared Mr. Jenninge to them, and hoped that he would piosper in his new sphere. On the motion of Mr. J. Brown, secönded by Mar. J. Lockyer, the following reieolution was carried by rising vote:Mr. Jesod, that this aseocintion receives and aucepts the resignition of Mr. Jonnings with deopent regret, and deaires to express the bigh en. toem in which he has over been hela by its members both as an honor od member and officer, and as an enrnest and suiccosafnl teecher in the county; and likewise to wish him even a greater measure of succeiss in his new sphere of labour than has attended his efforts while one of us. In taling lanvo of him it caxinot omit the opportunity of expreaping itic approval of the wisdom displayed in teleoting a. Chrintian geintremien and worker to eminently fittod for the poxithon to Which lie bun bisen Which promptod the rebolution. Mr. Megee war elected vioo.protident and committoe menber in place of Mr. Jenninge. Mr. J. Willis Whit-



Soutin Simcoz.-The eight session of this association was held in the public school, Beoton, on the 19th and 20 th ult., under the presidency of Rev. T. Nekco, I.P.s. Minutes of prevous meeting were read by Mr. J. C. Morrason, secretary, and confirmed. Mr. T. J. Atkins took up his method of teachang "Notation and Addition," wheh ehoted a discussion on tho yarious methods of teaching addition, joined an by Messrs. E. Wood, H. P. Hobson and Ur. Forrest. Several teachers haying contributed to the Question Drawer, a profitablo hour was spent in explanation and discussion on the different topics thus introduced. In the afternoon Mr. C. W. Chadwick reall a paper on "Geography" which was Inghly appreciated. Miss Springer read a cloverly written essay on "The leacher as a Moulder of Character," for which ${ }^{\text {P }}$ on the motion of Dr. Forrest, seconded by Mr. E. Ferguson, she wis tendered the cordial thanks of the association. The Question Drawer having been resuined and the advisability of promotion exammations being one of the questions, the matter was warmly discussed, but it was decided to postpone action until the secretary could ascertain from other counties how the system worked. Oral examinations, the age at which children should be first sent to school, and other important subjects were discussed, chiefly by Dr. Forrest, Mcssrs. Wood, Chadwick, Hıpwell, Willıams, B.A., Ferguson and York. Mr. Wilhams, B.A., H .AI. Collingwood, C.I., gave an eloquent address on "The Bencfit of the Study of English Literature," for which, on the motion of Mr. Mormson, seconded by Mr. Chadwick, he received the thanks of the association. A committec consisting of Messrs. Wood, Chadwick, McCandless, York and Willums, was, on the mution of Mr. Willams, appounted to consider the advisability of supplying one or more Educational Journals to the members. In the evening Mir. G. M. Adam read a lecture on "Live to be Useful," in the Court House. Ur. Forrest proposed and Mr. Williams, B.A., seconded a vote of thanks to the lecturer, which was passed unammously. The president, Rev. T. McKce, occupied the chair. Second Day. The committee on Journals gave therr report to the effect that each member pay the sum of $\$ 1.50$, and that the Casida Scinool Joorsal and the Educafional Monthly be supplied to paying members for one year. On the motion of Mr. Hipwell, scconded by Mr. Morrison, thereport was adopted. In the discussion on the report Mr. Mormson stated that it was the desire of the assuciation to avail themselves in thes most practical manner of ihe grant recelved from the County Councll and to cncourage the teachera to become paying members. As the attendance at the meeting was small the presudeut sadd that infuture he would send to the Minister of Education the name of every teacher who does not attend the convention of the association. On the proposition of Mr. Williams seconded by Mr. Wood, it was resolved:-"That the secetary give notice to all the teachers that the requirements in regard to associstions will be enforced at noxt meoting, unless a valid excuse be sent for nom-attendance." Dr. Forrest then took up "Grammatical Analysis" selecting some sentences which contaned difficultics observed at several examnations. By simple signs he illustrated lins plan of teaching and showed how he would dispose of tho difficulties and render them comparatively casy of comprehension. His remarks were combated by hessrs. Walliams, Chadwick; Hobson aud Stemart and a lively discussion ensucd. Mr. Book and Commercial Writing." He advocatod the use of the Beatty senes of Penmanship, and explained tis principles, commenting on the excellent grading and general superionty of this sernes. The clection of officers then came on, resulting as follows: President, Mr. F. Wood; Vice-pres., Mr W. C. Chadwick; Scc-treas., Mir. J. C. Micrison; Committce of Management, Dr. Forrest, Rev. Thos. McKee, Messrs. Luck, Ferguson and Aobson. Moved by Mr. Chadwack, seconded by Mr. Wood:-"That only two delegates bescut to Ontario Teachers' Association;" carried. Moved by Mir. Wood, scconded by Mr. Luck, "That Dr. Forrest and Mr. Chadwrick bo delegates," carried. Mored by Mr. Wood, scconded by Mr. Chadwick:-"That the next mecting of the associstion be heldan Cookstownatcallof executive," carried. Adjoumed.

East Victoria- The teachers of East Victoris met an conrention at Lindsay on the 25th of May, the proceedings, as usual, taking up the graster part of the following day as well. In the absence of Mr. S. Armour, the presudent, tho char was taken up by tho inspector Mr. J. H . Knight who also deluvered on the ovening of the 25 th a public address on "Pabluc Examinations." The remander of the programme for the ercning mecting was filled up with readings by W. F. Seymour and J. D. Macilarchy. The first place in the programme of the convention proper was accorded to "Pronouns," a topic which was handled by Mr. O'Boyle with more than the usual amount of originality and of frecilom from the restrants offormal grammar. The claums of "Short-hant" were ab ladvocated by Mr. $J$ Hesd who, as askilled phonographer, naturaily preferred and highly recommended that peculiar system of short-hand which goes by the name of "phonography. "Thedeep interest talenin this subject justified the selcetion made by those who placed it on tho programme "Fractions" occupiod the next divisson and the practical manner in which Mr. J. C. Smyth dealt with the subject won tho hearty ap. proval of the mecting. An excoedugly practical sddress on "How to sare Time," by MIr. Ti. F. Soymour, was listened to with marked attentuon but the great numberof thousciul hats with which it bnstiod mako it
impossibloto giveoventhe merestsynopsis of hismothod. On Fridaymorn. 1HgDr. Curry, inspectior of Haliburton, read n very practical paper on "School Work and Phyaical Development," for which ho was warmly thanked by the Association. A paper containingsome practical viows as tohow "conventions" should bo mannged, was read by G.F. Sherwood, and a very able and, for its length, comprehensive review of the history of Euglishliterature wasgiven in theformof a paper on that subject byA. Carruthers, B. A. During the day thequestiondrawer wasopened from time to time as the state of tho programmo warranted and many of thoso present took part in tho discussion of such practical questions as : "How would you check truancy?" "Are prizes in schools bencficial?" "Should fractions be taught before or after tho compound rules?" "Should spelling be tanght orally?" sc. The election of officers resulted in the following list for the coming year :-President, J. H. Knight: 18s V. P., J. C. Smyth; 2nd V. P., Miss Pcplow; Socretary, J. Head; Treasurer, G. A. Irwin; Librarian, J. D. MacMurchy. The meetings were unusually well attended and the convention was more than an average success.

Nurtit Hastings.-This Association met in Madoc, May 18th and 10th. The minutes of last mecting wero read and adopted, after which the report of Committee on Promotion Examinations was road and approved, and the action of the Committee endorsed. The printed reguIations for the examinations were then adoptal. Nr. Morton was appointed delegate to the Provincial Association. Mr Boall read an article from the Century Mragazine, entitled "Hints on Reading." after which the Association adjourned. In the afternoon, after roll call, Miss Wootton taught a primary reading class in a manner that conld not fail to be instructive to those who saw and heard it. A short discussion on the subject followed. After a reading by Miss MrDermid, Dr. McLellan introduced the subject of Intelligent Teaching of the Simple Rules. After a short intermission, Mr. Hicles introduced the subject of History, dealing with it generally. He called attention to the fact that the purpose in teacking this as other subjects is to prepare the pupils to work for themselves. Mr. Mackintosh then took up Grammar and Composition. In the evening, Dr. McLellan delivered a most eloquent address on "Teacher and Parent in Relation to the School," to a large and deeply interested audicnce, who showed their appreciation of tho lecture by frequent applause, and by the hearty voto of thanks tendered the lecturer at the close. On Friday, Mr. Diackintosh addressed the teachers on the approaching Uniform Promotion Fxaminations, and resumed the discussion of Grammar and Composition, giving many valuable suggestions as to the proper teaching of these important subjects. Mr. Jenkins then discussed the Geography of North America, which he would teach by means of both map and map-sketch. After a short discussion, Dr., McLellan took up tho subject of "Rending, and How to Improve it." He dwelt on the impor ance of Reading, calling it the key which unlocks the doors of all other knowledge. Fe adviscd tcachers in teaching it to beginners to combine the phonic with the word method, and analyzo all simple words. The subject of School Management was discussed by Mr. Miller, who gavo many valuable hints on the management of pupils both in the school and at home. In the afternoon, after a reading by Mr. Bicks, Dr. McLellan disctassed the subject of Good and Bad Questioning, giving examples of both. He spoko first of the objects of questioning, then the qualifications of the questioner, and lastiy of the characteristics of good questions. Dr. Dafoe then gave a most valuable address on Ey. giene, for which he received the thanks of the Association. The Question Drawer was opened and questions answered by Dr. McIellap and Mr. Macintosh. A Reading by Miss Riddell followed, after which it was moved by Mr. Hicks, soconded, by Mr. Miller, and carried unanimously, "That tho thanks of this Association be tendered to Dr. Miclellan, for his raluable assistance in making this a succossful meoting." To this Dr. AicLellan briefly repliud, Tho following resolutions, mored by Mr. Mackintosh, seconded by Mr. Wood, were passed: -"That this Association desires to put on record its deep sense of the irreparable loss sustained by the Provinco generally, and the cause of Education in partic 'ar, by the dcatly of Rov. Dr. Ryerson, to whose wise conception and reat adminis rative abilities wo owo our unciralled system of na' onal cducation." "That this Association tender their sympathy to the widow and family of Dr. Ryerson; and, that a copy of this resol tion bo transmitted to them." After singing the National Anthem che association adjourned.

Southi Graxi-TT 10 scmi-annaal meeting of this association mise held in the Town Fall icsherton, on the 25th 2Li 26th May. Thare was a good attends ce on both days. After tho usual routino business was transacted the president, Mr M. N. Armstrong of Durham modili school, deliverad a well prenared and practical address which was well reccived. The inspector was present at all the essions of the convention and took a hoarty interest in the work. Beforo tno programmo whenterad on sevaral committeas weresppointed. The following subjects were introduced and discussed the first dap. "The nocossity and best methods of class marking," by Mr. T. Hall ; "The nse and abase of cmulation in school" by Ir. Irvino; "Mathematical geography" by

Mr. Gosslino : "Mistakes in pronounciation" by Mr. W. Campbell, and "Toxt books in school" by Hz . MoMaster. Mr. Williums H . A. of Colling ivood collegiato instituto vas prosent during thio afternoon sas. sion and readily gavo tho beneft of his knowlodge and experience to the members of the nessociation. Tho inspector reail well propared answers to a series of quostions sent to quastion drawor. After preliminarics on Friday thofirat busincess wasreccivingroportsof conmmittees appointed the precediug day. The committeo on nominating office bearers for noxt year gave in their roport through Mr. Gossline which was after some discussion unanimonsly sustaincd. The following are the office bearers for tho ensuing year :-President, M. N. Armstrong; vice-president, M. P. MeNnaster ; managing con., W. J. Patterson, W. L. Dixon, S. Neely and W. Sharpe; delegate, M. P. McMinaster ; anditiors, Donald MeDoneld and Chas. Ramage ; sec. treasurer, John C. Bain. Report from librarias was handed in by inspector. Auditors' report read and accepted. Mr. Williams, B. A. of Collingrood then gave a most sadmirable address on "English literature" which was highly apprectated by the members of the association. Mr. D. Boyle of the Canada Publishing Co. gave an address on "What Canadian reading-books ought to be," strongly urging the clains of the series proposed to be published at an early dato by the above Company in Toronto. It was decmed advisable toadjourn the discussion on readers till theafternoon. MrN. W; Campbell then introducod his subject, "Tho infinitive and participles" and as might be expected and as Arr. C. intended the paper gave rise toan animated discussion which had to bo adjourned. The afternoon was mainly occupied by the discussion on readers, one or tro whose names were on the programme giving place to the gentlemen from Toronto. Mr. W. J. Gage advocated the claim* of the new series of readers published by his hoase some time sinceand which are being extensively used in other provinces of the Dominiou, and Mr. Boyle again urged the merits of tho series that are being prepared by Campbell of Toronto. As comparatively fow of the members of tho association had a proper opportunity of fully examining the Messrs Gage \& Co's series of readers it was not deemed wise distho part of the associ tion formally to cadorse them but those teachers who had proper opportunities"of examining the readers expressed the pleasure and the profit they would have in using them instcad of the series at present in use. The secretary was authorized to forward a copy of the following minute to all the members who had not an opportunity of hearing the matter discussod and carried at the meeting. Resolved:-"That the fee for membership for ensuing year shall be 50 cents, and that all members paying the same shall be entitled to receive a copy of either the Canada School Journal or School Examiner for one year commencing June, 1882, and that the payment of the alditional rum of 50 cents shall entitle a member to receive both journals." On the evening of Thursday a very successful entertainment Fas given in the Town Hall. Addresses were delivered by Rev. Mr. McLeod, Mr. Williams, Dr. Christie and Rer. Mr. Philips. Reading by Mr. MI. N. Armstrong. Thomusic was supplied by several young ladies of Flesherton and by Mr. Anderson whose rendering of several Scotch song was, as usual, much admired. Joun C. Basi, Sce.

Paescort.-The reguler aemi-annal meeting of tho Prescott teachers' Association, was held in tho high school, Hawkesbury on the $9 t^{t}$ of June, 1882. Abont fifts teschers wero present. The presdent, Mr W' S Sum merby, I. P. S., opened the proceedings with a very interesting ar' tress on "Education in the United Counties," comparing, tho educational tanding of the united counties with the other counties of Ontario. The following were elected omeers for tho ensuing jear:-President, $\lambda$. W. J. Summerby, I. P. S.; vico-president, Messrx J. A. Houston, B. A., and T. O. Page, B. A. ; sccy tre2s, F. Bissott, L'Orignal; committec of mansgement; Messrs. D. Mirshall, O. Duford, J. W. McCutcheon, Miss Eydo and Afiss de Tiller. The subject of "Hints on arithmetrc" was then talen up by Mr. C. R. Gray; giving many useful hints and explaining folly a fow niethods of writing problems on tho blackboard for junior cissses, so as to savo the time and fabor of tho teacher. An excellent cessay on "Letter writing" was read by Mr. J. W. JfcCutcheon, explaining afterwards by examples on the blackboard, his method of teaching tho subject. A short discassion followed. In the afternoon Mr. F. Bissett rad an exsay on "Incertives toratudy," which was woll received,--dealing especially with tho following points,-2pprobstion, disapprobstion, emulation, and giving of prizes. "A method of writing" was then teken up by Mr. C. R. Gray, in which he pointed out the defects of the system, at present used in our schools, and the difficulties teachers hafe in teachiag it. Ie adrocated the adoptron of the "half engrossing hand "and illastrated his method by numerous examples. Considerable discussion followed. Mr. E. B•Robin. son followed with an sble essay on "How not w teach" pointing out many errors of method into which teachers are apt to fall. During short inter. mission the committec of management met and it was decided that the next mecting of the association shonld be held as Vankleck Fill, on the 6th and 7 th of Octobernext. On the mecting baing agan called to onder Mr. J. A. Houston, B. A., read a highly suggestive esssy on " Modern history" clearly pointing ont tho amportant part nowspapers should play in school wert, ospocially in teaching history and gcography, and in cultivating atacto for good reading. 35r. D. Disarshall followod with a very instractive essay, on "Tho toxcher out of school," touching on the following points in a Fery practical mannes. Tho toschor's habits, employment of loisurotimo-out. door cxercise-finances sna social standing. Sevoral othor subjects wero to have been taicen up, but the gentlemen having charge of them not being prescut, it was considered edrisable not to continge the mecting on Satur-
day. Tho association then adjourned to meetagain at Vankleek Hill, on tho 6th and 7th of October next. Dr MeLellan not boing ablo to attend, the lecturo wheh was to haverbcen delivered by him on Friday evoning was postponed.

## Readings and zecitations.

## FOUND AT LAST.

"Mister, no doubt you have all the loarnin' that's required in a school teachor, but it wants more than learnin' to mako a man able to teach school in Cranberry Gulch. You'll soon find thom out if you try. We'vehad three who tried it on. Onelays there in the graveyard; another lost his eye and left; tho last opened school and loft before noontsde for the benefit of his health. Now you'rea slender build, and all your learnin' will only make it worse, for all our young folks are roughs and don't stand any nonsense!'

This was what one of the trustees of the district said to my friend Harry Floteo, when be made application for the vacant position of teacher.
"Let me try. I know I am slender, but I am rough and have a strong will," said Henry.
"Jest as you like. There's the school-house, and I'll have notice given if you want it done," said tho trustee.

The notico was given and there was a good doal of excitement in the gulch and along the Yuba fiats. More than fifty young pecple of both sexes mado an excuse to drop into the tavern to get a sight at the fallow who thought he could keep schoul in that district, and many contemptuous glances fell on the slender form and youthiul face of the would-be teacher. Eight o'clock on Monday morning came, and Harry Floteo went down to the school-house with a key in one hand and a valise in the other.
"Ready to slope if he finds we'er too much for him," baid a crossoyed, broad-shouldered fellow of eighteen.
The school-house was unlocked and the new teacher went to the desk. Some of the young folks went to see what ho was going to do, though school was not called. Harry opened his valise and took out a large belt. Then, after buckling it around his waist, he put three Colt's revolvers there, each sir barrels, and a buwie knife eightteen inches in the blade.
"He means business!"-muttered the cross-ejed chap.
The new teacher now took out a square card about four inches each way, walked to the other end of the school-house and tacked it upagainst the wall. Returning to his desk, he dew a revolver from his belt, and quick as thought sent ball after ball unto the card, till there was six balls in a spot not much larger thanifisilver dollar. By this time the school-house was half full of larget boys and girls. The little ones were afraid to come in. Then the tegcher walked half way down the room with the bowie knife in hushadd, and threw it with so true a hand that it struck quivering in flafe yery centre of the card. Ho left it there and put two more lifives of the same kind in his belt and quetly reloaded his yet smoking pistol."
"Ring the bell; I am about to open school." "Ja\&"
He spoke to the cross-eyed boy, the bully offtbalicrowd, and the boy rang the bell without a word.
sift quat
"The scholars will take their seats; I openisulxitl with prayer," he said sternly five minutes later.

The schnlars sat down silent, almost breainnessir After prayer the teacher cocked a revolver and walked donitizn the foor.
"We will arrango the classes," he said. say yparo can read and write will rise. Of them wo will form the flist cisge,"

Only six got up. Ho escortod them to unpersegta and then began to cxamino the rest. A whispermas heandibejindinim. In a second he wheeled, rovolver in hand.
at fiserif tain
"No whispering allowed here!" ho thyunderedyrand for an instant his revolver lay on a level with the cross-eyed boy's head.

"Seo you do not. I never give axsolusid orafting," said the teacher, and the revolver fell.

It mud fult Tata I
It took tro hours to organizo the classes, iffifiturione, they were pell organized. Then came recess. The toacher went out, too, for the room wis crowded and hot. A hswk vrigitigling ovarhcad high in the air. Tho teschor drow a revolver afigh nox nox scc.ad the hawk came tumbling down smong tino wondering senolsrs. From that day on Harry leppt school for two years in Cranberry Gulch, his salary doublod after tho first quartor, and his pupils learnod to lovo him as well as to respect him, and tho revolvers went out of aight within a month. Thoy had found a man at last who could keep school.-San Ir T ancisco Chronicle:

## PASTOR DANKMARDT.

POMERANIA, 1807.
'Twas in the Northern German land, Fast by the Baltic Sea,
When the Franch Emperor sent h's troops To bend the people's knee,

And dwell within their houses,
Feasting on wine and corn,
Till German hearts should learn to feel
The might of foreign scarn.
They came to Bodenstede. A hamlet green and still,
With fountain in the markot place, Where maids their pitchers fill.

They overran the village street, Thoy overran the inn,
They stolo the peasants ripening crops, And strove the maids to win ;

And up and down throughout the night Thoy sang their ribald song,
Whilo hidden evils darted forth To join the lawless throng.

## How fair was Bodenstede!

But deeds the Frenchman wrought
Among her pleasant summer fields
No pescaful harvest brought.
The peopleseized the soldiers, And bore them to the strand, And shipped them to a barren shore Within a bostile land,

And then returned rojoicing;
But he, the nations' fate, Quickly dispatched a mightier corps To hold the conquered stato.

Alas for Bodenstedo!
How sad the sun uprose
That day the forcign flags returned
Before his golden close !
Rode forth Commander Mortior :
"Seize all the men," he cried,
"Who rule in Bodenstede, And place them side by side ;
"And at the signal given,
Shoot each man where he stands.
Thoy that rema n shall live to see Their blazing homes and lands."

Then forward stepped the pastor; His eyes were bright as tlame;
"If any man is shot, shoot me ! Mine is the guilt and shame.
"I bade tho people to rerolt, And drag tho men array; I sent them to the Swedish shore; Twas I urged on the fray.
"Hear me, 0 sire, how innocent These poople surely are;
I pray thee barn my guilty, roof, But all tho others spare."
The stern Commander Mortier Heand what the pastor said, One moment stood irrcsolnte, Then turned his horso's head :
And putting spars to flank, they rode Ont from tho wandering town;
And as they pasted, the roid was givon, "These fisher-huts burn down !"?

A fow poor sheds whare no man dwelt!
No blopd that doy wos spilled :
And thus Commandor MOrtier
'The Emperor's lav fulfilled.
Thoso battle-fields aro overgrown,
Dim is their glory now;
But Virtuo ever wakeful shines; Tho stars are on her brow.
The pastor in his flowing gown, Before the armed host,
Joyfully giving lifo and home If ho nay save the lost:

Deep in the German father-land
This rooted memory grows,
And safo within the children's heart The living picture glows.
-Annis Fields, in Karper's Magazine for January.
THE OLD BRICK SCHOOLHOUSF.
bI OEO. E BURLEIGII.
The Old Brick School House on the green,
With its pyramid noof and windows high, And the sentinel poplars, tall and lean,
That scemed to my fancy and boyish eye,
Standing up etify and brashing the sky As a trooper's plume is seen, -
I figare them still as I saunter by.
Though house and trees, and the $g$ e ean itself,
Have gone at the tonch of Time, the off;
Who leares, for old things laid on the shelf. Only now ones, -and as sigh !

How the bolt-up benches were hacked and hown
By the Yankee jack-knife's hangry edge,
Into scrap, transverse, and demi-lune;
What sculptured names on the window-ledge,
And beetle-head profiles, with ncie for a wedge, Just splitting a carved moon!
And how the dear dumpies, with legs too short,
Hung on the fere-forms perilous parch,
With nothing to touch on the back, but the hirch,
And nothing below to recover a lurch, But the far-floor futilely sought!
There were gaps in the wall and a crack round the door, Where the wind would comeand whistle in school,
And gape in the all-reolian floor,
To serve, an the he-d hroiled more and more,
To keep as the dear feet cool I
And the wood would rail in stormy days,
So oniy the boistroun boys could stay ;
With logs and latbs in a roaring blaze,
To warm tha house we would ncarly raze,
In the other sense, with our tearing plays.
Through the howling of gale(y)-day.
The fire-place, which had long subdned
The ardor of fucl to "latent heat,"
For the stubborn rebel, hot and rade, Proved most, for a cooling dangeon meet. While the huge stove-pipe, $-a n$ iron street, Or Mcnai bridge, pursuce.
By the hauntingnotion a fall would soot. The boys kelow ade striking joke,
Would slip its joints like a crab, and do't, Seorching the fingers put rashly to't.
While fire and boys rnshed out with a hoot, And the wholo thing ended in smoke!

There were noble boys and fairy girls, Whom now I see through tho hazo of years
As throngh that smoke's voluminous curls, -
My oyes ropeating the same old teara,
Though moving far in thoir sundered spheres Their chequered rob nuiurls:
Some piant new States in the stately West,
Some plaut potatics and onions hero;
Some rock their little ones on the breast,
And.some, if lessg happy perchance an blest,

Over the bed of a darling's rest Are dropping a mother's tear.

We've a new brick schoolhouse, stiff and tall,
The front threeslegged with columns white, And elbowed into the street by a wall;

While squash and cabbage usurp the site
Of the former, as if there by right, -
The old heads done in small!
But sooth if I were a boy, as then,
I would long to sec the old hut back;
My heart would sigh for each dear old crack,
And my jack-knife burn for a place to hack,
Though for hacking it burned again.

## REviEWS.

The annual report of the superintendent of schools for the State of Wisconsin for the year ending August 31, 1881 has just come to hand. According to him a survey of the educational movements of the State shows that improvements have been secured in the following points : (1) a steady and healthful advancement in all grades of schools and methods of school work ; (2) a more manifest expptession of the spirit of harmony and earnest zeal in the management and teaching of schools ; (3) a more general and decided recognition of the prominent defects in the public school system and greater willingness to remedy these defects ; (4) a growing sentiment in some sections in favour of employing teachers with better qualifications, and for longer terms ; (5) an increased and more uniform attendance of pupils ; (6) a wider dissemination of the most reliable information about hygienic laws as applied to the construction of school houses, the oversight of school grounds, and the care of children while in school ; (7) a marked progress in the methods of classifying and instructing the pupils in ungraded country schools.

An Etymology of Latin and Greek. By C. S. Halsey, M. A.; Boston, Ginn, Heath $\mathcal{F}$ Co.-Our first impressions of this work are that it is admirably adapted to the object in view-that of "presenting, within the limits of a school-book, the most needful etymological information, that is not adequately furnished by the grammar or the lexicon." It is well known that according to ordinary methods of classical instruction no systematic knowledge of etymology is obtained. We believe that this book meets a felt want in this direction. The advantages of comparative philology or historical etymology cannot be attained merely through the use of grammar and lexicon. Here, however, is a work that "gives the original and central meaning of related words, and, gathering the words themselves together, unites them by the natural bond of their common origin." A comparison such as is here given tends not only to reveal new and interesting truth, but develops the mind and stimulates it to further investigations in this department of study. The book is got up in the excellent style so characteristic of this firm.

Poems, Songs and Odes is the title of a small volume published by the author, A. McAlpine Taylor, now headmaster of the Ingersoll model school. Such an undertaking argues on the author's part no small amount of courage in the face of the little patronage such productions have always received in Canada. There are many fine thoughts in the poems and many of them are admirably expressed, but there are also defects which might have been avoided had the $M . S$. been submitted before publication to some candid and intelligent friend. No author ever made a high reputation by trusting to the indulgence of the public. The better plan is to see that the article placed before his readers is as little open to adverse criticism as possible.
Roget's "Thesaurus" is one of the best known works on the use of the English language and one of the most useful. It is needless to introduce here any description of a work which is to be found in every well-equipped study especially when the proprietor's occupation is either translation or original composition. It will serve a much better purpose to endeavour to give some idea of the difference between the edition just published and the
first edition which was issued in 1852. Dr. Roget's original collection of synonyms was the result of fifty years' observation and work. The latest edition prior to the one now before us was issued in 1855, and though the collection was at that time a very full one, the lapse of years and the growth of the language made it inevitable that it should fall behind the times. The work of preparing this revised edition has been undertaken and carried out by Dr. Roget's son who has had the advantage of his father's memoranda and also of other valuable assistance. The general arrangement of the 'Thesaurus' is that of a series of categories, each made up of a word, representing a leading idea, and other words representing ideas more or less closely related to it. It is evident that many words must logically appear in more than one category, and as this would tend to make the book inconveniently large the editor has adopted the plan of substituting references to places where words have been inserted instead of repeating the words themselves. One of the important features of this revised edition is a better classification of the ideas included in the categories. The index has been considerably elaborated and now forms a peculiarly valuable vocabulary of nearly 300 pages.

Dr. Hodgson's work* is one of those ingenious and scholarly treatises which are a source of delight to the student apart altogether from their utility. It is not intended to supersede the use of "formal helps to English composition," but rather to show those who want to write good English, how to avoid errors of the more subtle kind in the use of words. No mere description of the author's method would give so good an idea of the work as a specimen of his mode of 引dealing with misused words. Take for instance the preposition "between":
Quality is the fundamental notion of " between," which cannot therefore correctly be e uployed with more than two objects of reference or without the two objects being clearly indicated . . . Instances of "between" with more than two objects are:
" Between the offences of blaspheny, hypocrisy, and perjury, and partaking of the guilt of all three, lies that of apostasy." Miss Cobse, Intuitive Morals.
"Paxriteles is said to have defnitively given the character of sensuality to Venus who had previously floated betureen several ideals of beauty."

Lecky, History of Ratio alism.
"Stirring up at the same time no little ill-will between the various races-English, French, Scotch, and Irish -who inhabited Canada." Westmi",
"Where between every stitch she could look up and see what was going on in the street." Mrs. Gaskell, Mr. Harrison's Confessions.
"The statement is dovetailed in between an attack on aristocratic converts to Rome and young men in business who attend Ritualist ceremonial." Saturday Review.
"If he does not distinguish between the province of reason and emotion-the most difficult of philosophical problems-he keeps clear of the cruder mysticism." Leblie Stephen, Hours in a Library.
Of course the author indicates how the errors in his specimens of bad English are to be corrected, and his remarks on the correct use of words are nearly always unexceptionable and are often peculiarly instructive. The work is arranged in parts, the first of which contains in alphabetical order spurious words and words used with other meanings than their own; the second deals with blunders in the forms of words; the third treats of errors in arrangement and collocation; and the fourth discusses instances of confusion of thought and expression. In other words the four departments of the book deal with vocabulary, accidence, syntax, and rhetoric respectively.

## Magazines.

North Ambrican Reyirw.- - In the number for June, Senator W. B. Allison has a paper on "The Currency of the Future" in which he indicates the measures that will have to be taken by Congress for insuring a stable currency after the national debt has been extingushed. "A memorandum at a venture," by Walt Whitman, isan explanation of his purpose and point of view in trenching upon topics not usually regarded as amenable to literary treatinent. "Andover and Creed Subscription," by Rev. Dr. Leonard Woolsey Bacon, is a philosophical review of the present state of dogmatic belief in the churches. Hon. George F. Se a ard, late minister to China, in an article entitled "Mongolian Immigration," makes an argument againat anti-Chinese legislation. Dr. John W. Dowling, Dean of the New York Homeopathic medical college, comes to the defence of the Hahnemannic school of medicine against a recent attack upon its principles and methods. O. B. Frothingham has a sympathic article on swedenborg. Not the least important paper is one entitled "Has Land a Value,?" by Isaac L. Rice, it being a criticism of one of the fundamental postulates of Henry George's political economy. Finally, Charles F. Leydecker essays to prove that a "National Militia" is a constitutional impossibility.
This Day of Rest has been received. It contains a variety of articles on a number of subjects, and will interest its readers.
*Errors in the use of English. By the late Wm. B. Hodgson, LL.D., Professor of Political Economy in the University of Edinburgh. New York, D. Appleton \& Co, Toronto, Willing \& Williamson,

## Antrourcentents.

## THE ONTARIO TEAOEERS' ASSOOLATION.

The twenty-second annual meeting of the Ontario Teachers' Asmociation will be held this year in the public hall of the Education Department, in this city, on the eighth, ninth, and tenth of August. The association has, for nearly a quarter of a century, undertaken to discuss all kinds of questions cumnected with the educational systom of the province, and on many of them it has from time to time pronounced very decided opinions. These opinions have, very properly, been treated with great respect by the Dopartment, and many of the most usoful improvements of recent years are the result of suggestions made by the Association. At the present time there is more need than over that the inspectors and teachers should zealously watch the tondencies of our very excellent, but not yet perfect system, and contribute the results of their experience for the guidance of those who are placed in charge of it. For this reason we hope to see a larger and more representative attendance than ever before. The following is the official programme of proceedings:-
tuesday, 8th.
10.45 A.M. The Treasurer's Report and General Business.
2.00 p.3. Reports of Comnittees.
3.30 P.s. "Schoul Hours and Vacations."-Mr. F. S. Spence.
8.00 p.s. President's Address.-A. Macmurchy, M.A. wednesday, 9 Th .
2.00 p.3. "How to make Teachers' Associations more useful." -G. W. Ross, M. P.
4.00 p.M. "Drill in Music."-Mrs, G. H. Ricues.
8.00 r.m. An AddrassbyJ.A.McCabe, LL. D. PrincipalNormal School, Ottawa. Subject, "Tho Schoolmastor Abroad."

## trursday, 10tz.

2.00 P.M. Election of Officors.
2.30 r.s. "Induitivo and Deductive Methods in Education."Prof. M. Mapvioar, PhD., LL.D.
4.30 R.m. "Text Books in PublicSchools."-Mr.J.B. Somereset.
8.00 ч.мr. "Temperance in Public Schools."-Mr. W. H. Howrand.
Pruf. Guluwin Smitn, will, it is expected, address the meoting during this evening.

The Sections will meet during the forenoon af each day.
PUBLIC SCHOOL BECTION.
"Christmas \& Midsummer Shows (Examinations)."-Mr. R. Lewis.
"Granting of higher Certiticates to thoroughly successful Teachers of long standing in the Profession."--Mr. S. MaAluister.
Revision of Programme. Text Books. High School Entrance Examination.

HIGH SCHOOL SECTION.
"Training of High School Teachers."-C. Fressendin, B.A.
"Relation of High Schools to the Univorsity."-J. MILLAR, M.A. "Proposed Modifications of the Intermediate."-G. Rosnsson, M.A. "High School Programme of Studies."-H. J. Strang, B.A.
"Legislative Aid to Secondary Education", A. P. Kniart, M.A. pOBLIO SCHOOL ANSPECTORS RECTION.
"How to make Teachers' Associations more uneful? ;
"Oniform Promotion Examinations."
"Public School Inspection."
"How to obtain the best results from County Model Schools."
"Public School Programme."
ARCHIBALD MAOMURCAY, ROBERT W. DOAN, President. Secretary.

THERER SHEEH:

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 recommend it as adinlrably adapted to the purposea for which it wres intended.
(Signed) $\quad$ S. Y: Masox, Superitsor City Echools, Bonton, 3fast.
Tus Bonrd of Eolcation of tiz Citt of New Yoex he o adoptod end revommended its use in all their Cless Rooms.
 AKD OTHER Cities.

Quikci Pozlic Sciloons, SUPERIKTEMDEXTA Orpicz,
Quincy, JIass, Nov. 18, 1881.
Mr. Joux Gotzd. - Deaz Sit: Vín liko "Gould's Anth. metfcal Frame" ricy much. It saves much time in the prectice of the fandamental raics, and our teachers whero it is usad would not do without if I ahall glre anotiser order after we zet our appropriation for the next winol your. Very truly yours, (8lgnod) S. BROWN, Supt.

Brooxlyn, July 19, 1881.
Wo havo introducod the "Parest Abizimatical Peane" into our Academy snd ind it gives much antisfachon. SISTERS OF VISITATION, B.T.M., 902 Cluton Ave.

Academp 3r. St. Vincest, New York, Sept. S8, 1881. Wo havo adoptod the "Pajexp Anrraxymical FranE" in our Academy, aleo in our Mt St. Vincent Froe Schoo on our own grounds. Fe fud it to be an uscrul applance. SISTERS OF CLLARTIY.

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