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# The Canada School Journal. 

The Camada School bonimat<br>is punlisited the yingt of eacti montu at<br>11 WELLINGTON ST. WEST, TORONTO, ONT., CAN. Subscription $\$ 1.00$ per year, payable in adivance. ${ }^{\circ}$<br>Address-W. J. GAGE.\& CO., Toronto. CANADA SCHOOL JOURNAL HAS RECEIVED<br>All Honorable Wention at Paris Lithibition, 1878.<br>liecommended by the Minister of Educationt $f r$ Ontario.<br>Becommended bil the Council of Public anstruction, Quejec.<br>licoonmendrd by Chirf Sujerintendent of Educalinn, Nero Brunsuriek.<br>Herommented by Chief Superinteulent of Education, Nopa Scosia.<br>In mumenled by Chiof Superintendent of Educatio .i Dritinh Columbia.<br>IV. inmended Ly Chief Superintenlent of Education, Manioba.

Tho Publishers frequently recolve letters from their frlends complaining of the non-recelpt of the JOURNAI. In explanation they would stato, as subscriptions are necessarlly payable in advance, the maling clerks have instructions to discontinue the paper when a subscription expiros. The clerks are, of course unable to make any distinction in a list containing names from all parts of the Unitod States and Canada.

## THE PROFESSIONAL QUALIFICATIONS OF HIGH SCHOOL MASTERS.

The Education Department of this Province insists, and rightly so, on as thorough a professional training as the circumstances will admit of in the case of public school teachers, Each candidate is required to spend a certain time in a county model school before he is licensed to teach at all, and then he is required to show that he has taught successfully for a still longer time before he can rise from a lower to a higher glade. The average time occupied by public school teachers in obtaining first-class sertificates is probably not less than ten years, and when they have reached this rank they are still far from being in as good a position on the average as head masters $o_{f}$ high schools. This is true of even the fortunate ferw amongst public school teacheis who are head masters of central schools in towns and cities, and who succeed in becoming inspectors of school districts.

The intending high school master, on the other hand, who is a graduate of a university, is allowed to commence work as an assistant without any professional training, however youthful or inexperienced he may be, and aftera very brief experience as an assistant he is allowed to take charge of a school. Matters are in this respect not so unfairly arranged as they once were, but something more should be required than is at present required, by way of professional qualification, from those proposing to take charge of high schools. Mere scholastic attainments are not enough-are not even the most important matter to be considered in the selection of a schoolmaster of n any grade in the profession.

It is often easier to discern a defect than to point out the best remedy, but one way of minimizing it would be the estailishment of a chair of education in connection with University College. A movement is now on foot to reorganize to some extent the staff of that institution, and we would like to see
both the authorities of the College and the Minister of Education make an effort to secure the creation of such a departinent of academical work. But even if nothing of the kind is undertaken it would still be open to the Education Department to exact a longer probation from graduates before they are allowed to become head masters. In many instances the position of head master of a high school means the placing of all the public schonl masters in the same place in a relation of subordination, and to able and experienced teachers this is a positive. injustice when the high school master is an inexperienced youth however thoroughly he may be acquainted with literature, science, or philosophy. A change in the direction indicated would be beneficial alike to the schouls and the profession, while it would tend to keep out of the latter many who now enter it for the purpose of making it a stepping-stone to something more congenial or more profitable.

## TOWNSHIP INSTITUTES.

At the last meeting of the Wentworth Teachers' Association, Mr. J. H. Smith, the inspector for the county, obtained the sanction of the convention for the adoption of a pla' which, if properly worked out, should be productive of great benefit to the teachers in rural schools. His proposal is to ask all the teachers of a township to spend one day together in one of the schools of that township in company with himself, and engage by turns in the actual work of conducting classes in various subjects. None of the time will be taken up in the kind of work usually done at disfrict conventions, such as the discussion of methods. The work is to be entirely practical and the best methods, wisen thus illustrated, will become models for those teachers whose experience has not been varied or whose opportunities for acquiring professional training have been limited.

Mr. Smith proposes to go through all the townships of his district in succession and to do this at least once a year. His plan is not a new one, but it has not been very often attempted in so systematic a manner as he contemplates, and the result of his experiment will be watched with some interest. It will be strange indeed if some of the teachers do not benefit by it. Those who have had only a model school professional training will have opportunities of making observations from a more advanced point of view than the one they occupied before commercing to teach. What little experience they have had will enable them to gain more useful lessons in teaching in one day than they formerly learned in a month, and even skilled teachers will profit by observing each others' methods. No class of workmen are more in danger of running in grooves than teachers, and the township institute, conducted as Mr. Smith proposes to conduct his, would be the most effective means of preventing this.

## TEACHERS' INSTITUTE PROGRAMMES.

One of the practical difficulties in connection with teachers' institutes is the backwardness of those present in taking part in the proceedings. Many a good programme has been spoiled and many a meeting made a partial failure by the want of variety due to this cause. It is not enough that the subjects selected for treatment should be numerous and that they should be entrusted to those who have the ability to handle them in a masterly and interesting way. Indeed those who prepare programmes err more frequently by making them cover too much ground than by including too little. What is wanted in the case of associations, which are permanent organizations, is that moreteachers should come prepared totake part in the discussion of practical questions, and that the viewsof those who prepare papers should be thoroughly and intelligently criticised by a large proportion of those who have heard them read.

As associations meet half-ycarly there is no reason why at each mecting the programme should include more than a few topics except the difficulty of filling up the time. It would be much better to limit the number and allow more time to each if there were more readiness on the part of members to contribute. In order to secure this it would be well to appoint several persons to criticise freely each paper or discuss the subject of which it treats. We have before us the programme of an institute held recently in North Wellington which contains some features that might be advantageously copied in other districts. One of these is that while the subjects are given in regular order on the programine no special division or length of time is set apart for any particular one and it is not even stated on which day it will be taken up. This method has the advantage of leaving it uncertain when any subject in which a teacher may be interested will come before the convention, and its tendency will be to secure a better attendance at the meetings; and it has the further advantage of leaving the programme more flexible and therefore less liable to derangement from the unforeseen absence of persons appointed to prepare papers.

Another feature is the appointment of critics under each topical head on the programme. For example, one of the topics is the "Science of Education," to be discussed by the introducer and four critics; another is the "Characteristics of a Geod Teacher," to be discussed by the introducer and three critics; and so on through the list. The idea is a good one and we commend it as such to the officers of associations everywhere.

## OSCAR WILDE.

This now celebrated apostle of "æstheticism" has come and gone, has been interviewed and foted, and has lectured and made his observations. He has left behind him, as we expected he would, an impression on the whole rather favorable to him. He is a man of excellent physique and of good intellectual powers, with youth on his side and the advantage of a good training. He has also the merit of being on the right track though much of the mannerism of himself and his school is
calculated to bring both them and their movement into ridicule. All who have any taste or sense of the beautiful will readily admit that, other things being equal, an object should be handsome rather than ugly. It is better, if the cost and durability of a carpet are not affected, to have it made with harmonized colours and a graceful pattern than to have it florid or mottled in appearance. In substance this is Oscar Wilde's contention, but it is too much to expect those who go with him so far to go into ecstacies over blue china or sunflowers. To do him justice he does not bring with him the worst exaggerations of lis school and it is to be hoped that his American tour will help him to get rid of some minor ludicrous eccentricities of thought and manner.
The least defensible point in Oscar Wilde's position is his somewhat egotistical assumption that he and his immediate associates are entitled to the chief credit of the movement in favour of a higher kind of art decoration. The movement is really much older than Mr. Wilde himself, and the man to whom, more than to any other, the chief credit is due is the poet, Wm. Morris But, indeed, there have been many participators in the good work, and much has been effected in the same connection by successive international exhibitions and by the establishment of such institutions for art education as the celebrated one in South Kensington. Men like Ruskin and Hammerton have, by their writings, done much to modify the views of the English speaking world on att in its relation to daily life, and if Oscar Wilde fancies that the inspiration which he has apparently caught from them and other masters is a mere scintillation of his own genius he is committing after all no greater blunder than we see committed by mediocre people every day around us.

## VICTORIA COLLEGE.

The proceedings connected with the usual "Commencement" of Victoria University were this year of more than ordinary interest, owing partly to the death of the man who may be said to have been the founder of Victoria College as he was of our Public School system, and partly to the success attending the movement to increase the College staff. As a fitting memorial of the late Dr. Ryerson it has been resolved to endow a chair of "Moral Philosophy and Christian Evidences" to be called by his name. The amount required is $\$ 35,000$ and with com. paratively little effort some $\$ 55,000$ of that sum has been secured. There is little doubt of the fuial success of the attempt and in all probability it will be found practicable to increase the amount. The endowment of a chair of Chemistry by Mr. Moore is one of those acts of private munificence which are still too much like "angels' visits" in Canada. Wealthy men are still too much disposed to make their donations to colleges in the form of bequests instead of enjoying the satisfaction of seeing their money disposed of according to their own intentions in their lifetime. If there were a few more pub-lic-spirited men in the country like Mr. Moore of Hamilton, Mr. McMaster of Toronto, or Mr. Redpath of Montreal our higher institutions of learning would be in a position to do tet-
ter work, and those who manage them would be freed from many embarrassing anxieties.

With Dr. Nelles' and Dr. Young's protest against the consolidation of teaching colleges every sensible man wall be in entire accord. No one college could be made adequate in all respects to meet the wants of such a country as ours and if all existing colleges were consolidated into one, people who did not like that one would soon stat another in accord with their own ideal. The great end to be aimed at after all is culture in the better sense of that term, and the best way to diffuse culture is to allow full play to all agencies which by any motive can be enlisted in the work. Whatever may be said in favour of having only one body to confer degrees there is no standing ground whatever for the contention that there should be only one college to do the teaching. The various colleges in Canada are doing a good work each in its own way and the great matter for regret is that they are not all in a position to do it better.

## DALHOUSIE COLLEGE.

This now venerable institution does not shuw, with advancing years, any falling off in vigour or capacity for usefulness. On the contrary it, like some other Candian colleges, seems to have obtained a new lease of life and to ive in a better position than ever to do the work it was brought into existence to do. Mr. Munro, the well known "Seaside" publisher has by his liberality to his Alma Mrater done much to put her on a better financial footing and it is to be hoped that other distinguished alumni of this and other colleges will follow the noble example he has set. Whatever objections may fairly be urged against state-supported institutions for higher education there can be no objection to wealthycitizens taking the common sense course of seeing their money sfent in the way durng ther own lifetime, instead of leaving it to endow colleges after they are dead.

All truly liberal educationists will weicome the sentiments so admirably expressed by Dr. Allison, when he discussed the question of college courses of study. We are in the habit in these modern days of applying the term "mediæval" to anything antiquated by way of reproach ; but in this use of the word we do a very great injustice to the Middle Ages in so far at least as higher education is concerned. In those days both sexes were freely admitted to halls of learning and the college curriculums represented the most advanced thought and knowledge of the time. Is this the case now? Certainly not in Ontario at all events when the faculty of a leading college persist in refusing admission to women, and protest against the creation of a chair of political economy lest it might injure the institution by the incidental teaching of party politics. If state support for a college means necessarily a tettering process of this kind then it is easy to predict early and triumphant success for those voluntary institutions which are not afraid of the breczes or even the storms of public opinion. The tree which is sheltered is never deeply rooted.

## McGILI, UNIVERSITY.

Like the other colleges of Canada McGill, as will be seen by a reference to the closing procecdings elsewhere, is much in need of funds, and Dr. Dawson seems to be equal to the occasion. He has hosts of warm and wealthy friends who have already done much to place McGill College in the very foremost rank of institutions of learning in America, and who will probably respond still more liberally than they have yet done to the appeals addressed to them. The many friends of McGill will be glad to hear of Dr. Dawson's success in overcoming all the difficulties which at present lie in his way.

## GAGE'S NEW CANADIAN READERS.

References to what appears in the columns of the Canada Educational Monthly are, as our readers know, extremely scarce in the Canada School. Journal, but the gross misrepresentations contained in a recent editorial notice of the above series of school readers have induced us for once to act on the truth that occasionally forbearance ceases to be a virtue. The article in question refers to so many passages in the readers, that we have no intention of taking them up in detail. Instead of doing so we select one or two of the Monthly's statements about one of the books and lay before our readers the text of the passages which have been niisrepresented and misquoted. The passages referred to are to be found in the Fifth Book, not in the Fourth, as the critic in his careless haste states. For convenience we place the extracts in parallel columns :-

| Eiducational Monthly. <br> We are told * * * * | Fifth Reader, p. s7x. <br> The small wooden buildings |
| :---: | :---: |
| that the Indians of Manitoba, which the principal merchants |  |
| resenting the difjerent tribes of | found large enough for the busi- |
| Half-breeds, Icelanders, French, | ness of six or eight years ago, |
| English, Irish, Scutch, and Mrexi-cans, jostlo one another in the | are being everywhere replaced |
|  | by fine brick buildings, some of |
| streets of Winnipeg : On the | thent faced with stone, contain- |
| same page we loarn that the | ingall the modern improvements |
| stone with which the brick buildings are faced, contains all the | * * * * Indians ropresent- |
|  | ing differont tribes, Half-breeds, |
| modern improcements! | Menmonites, Icelanders, as well |
|  | as Frenchmen, Englishmen, |
|  | Irishmen, Scotchmen, Canadi- |
|  | ans from the older Prosinces |
|  | jostle one another |
|  | on the streets, \&c. |

The italics are the Monthly's. Any one who knows anything about the structure of English sentences can see at a glance that the writer of the critique is as ignorant of the first principles of punctuation as he is destitute of ordinary fairness. We shall not insult the inteiligence of our readers by adding another word of comment, but content ourselves with assuring them that the spirit and value of the whole article may safely be estimated from the above specimen trick.
Gage's Readers have now been in the hands of inspectors and teachers for a considerable time and-the cordial approval extended to them by practical men in all departments of school work is a sufficientoffset to the misrepresentations of an interested critic. Equally valuable for this purpose is the favour with which they have been'regarded at different teachers' conyen-
tions throughout the Province. They have, in many instances, been submitted to thorough inspection at the hands of expert and disinterested committees; in every instance the report has been favourable, nfien highly eulogistic, and in a large number of eases the reports have been adopted by the Associations which thereby recommend the Readers for authorization. In this way requests for permission to use them have been made by the teachers of Fr ntenac, Hatton, Haldimand, North Wellington, Dufferin, South Osford, Prince Edward, and. Northumberland. In the light of such endorsation the misrepresentations of interested parties appear in their true proportions.

## MR. P. A. SWITZER.

To the deep regret of a wide circle of friends Mr. Switzer, who has for some years past held the position of inspector of public schools for the District of Algoma, has succumbed to a disease which long threatened his life and compelled him to discharge his onerous duties under the greatest difficulties. Mr. Switzer successfully filled for some time the position of head master of the Elora high school, and, physical strength apart, was admirably qualified for the post of "guide, philosopher, and friend" of the teachers and trustees of the new district in which his official lot was cast. In spite of growing weakness he never lost his energy and prepared to face the last conflict in harness. He made the town of Collingwood his headquarters and from it he was compelled to make his inspectoral journcys to the Parry Sound, Algoma, and Manitouiin districts partly by stream and partly over highways of extreme roughness. The field of his operations was a large one, and it is time the the Ontario Government were thinking about subdividing it. Those who know how hard Mr. Switzer toiled in his voc:tion will regret that he 'was not relieved of some of the work long ago, bat it would be doubly a mistake to place his successor in the same difficult position.

Mr. J. B. Ferguson, late principal of the Winnipeg Schools has snce his retirement from that position gone into the book and stationery business in company with Mr. Parsons. Mr. Ferguson was a successful teacher, and that his services in that capacity were appreciated is manifest from the address, accompanied by a handsome gold watch, which was presented to him on the occasion of his giving up his recent charge. Like many others Mr. Ferguson is reported to have been fortunate in real estate speculations, and his many friends in Manitoba and elsewhere will be glad to hear of his being equally successful in his new venture. J. H. Stewart, M.A., formerly of Perth, Ontario, who has held for some years the inspectorship of the schools in Wimmpeg and the adjacent district, has given up the supervision of the schools and gone into real estate business. Mr. Stewart's services in the cause of education in Winnipeg have been very valuable. He also carries with him into his new sphere the best wishes of those in connection with whom he has been labouring, and was presented with a handsome testimonial on his returement.
-Nothing travels faster or grows faster than falsehood Richard Grant White's monstrous misrepresentation of modern education circulated with amazing rapidity and really acquired portentous dimensions while the friends of the assailed system were preparing to defend it. The truth can never be vindicated too promptly. At the meeting of the National Educational Association of the United States held two summers since the question of high schools was discussed with some warmth. A prominent member of the Association asserted that at that time a majority of the inmates of one of the State Penitentiaries of Pennsylvania were graduates of high schools. The discussion had scarcely ended when the Association appointed a Committee of its representative men to ascertain if facts afforded any justification of the singular, and, if true alarming, statement made. The gentleman who preferred the charge was placed at the head of the committee of investigation. We need not be greatly surprised to learn that he declined to act and that he did not present himself at the next annual meeting of the Association. During the year, however, the committee under the direction of Hon. J. P. Wickersham, Strte Superintendent of Education, and now United States Minister to Denmark, made exhaustive inquiries into the matter of the charge preferred. It was found that in. the penitentiary referred to out of upwards of four hundred and eighty inmates, not more than eight or nine had attended high sthools tor terms however short, while only five, or at most six, were high school graduates. Mr. Wickersham's report, enlarged by the addition of other relevant matter has been published by the National Burcau of Education under the appropriate title of "Education and Crime."

Geograplical fotes.
the GRAND tulisk avid nomthern pacific railways.
We gave last month a description of the present condstion of the Canada Pacific Railway. Tho company chartered by the Dominion Parliament to build that line secured the insertion in their contract of a clause intended to prevent any other company from obraining the right to build a railway across the 49 th parallel for 20 years. This has not prevented steps from being taken to create another through route for the produce of the Canadian Northrrest to the Atlantic. At this writing tho privilege of crossing the United States frontier has not been granted to any other railway besides the Canada Pacific, but efforts have already been made to secure shat privilege and they will no doubt be repeated. The transcontinental system contemplated as a rival to the C. P. R. is made up chielly of the Northern Pacific Railway of the United States and the Grand Trunk Railway of Canada, tho intention being to connect them by means of the Midand Railway of Canada and by the construction of intermediate links by way of Sault Ste. Maric, and Erench River. The capitalists who control the Northern Pacific control also the Manitoba South Western Railway, and it is apparently the intention of the promoters, as soon as pormission to do so can be obtained, to connect the latter across the frontier with a branch running northward from the main lino of the Northern Pacific. The various portions of this contemplated traffic ruute from Montreal to Wimmpeg are, therefore as follows :-

[^0](c) Tho Ontario Shult Lino Irom Gravenhurst to Sault Sto. Mario.
(d) The Northorn Pacific and its asatorn oxtonalons from the Sault to the mouthorn boundary of Jtanltoba.
(e) Tho Manitolns Sonth Woatorn from tho trontior to Winnipog and other pointh In tho North.west.
The Grand Trunk from ITontroal to Torunto is one of the oldest pieces of milway in Camda and thereforo it is unnecessary to say anything more about it here. The Midland is also an old line from Port Hnpe to Lako Simeoo, but the section of it known as the Grand Junction, counecting Belleville with Peterborough is now, and tho loop line from Peterborough to Omemeo, which is really a continuation of the Grand Junction, is at present under construction. The Midland is connected with Gravenhurst, the southern torminus of tho Ontario Sault line, by the Northern Railway, but an independent connection is probable, and it can be offected by extending oither the Midland towards the north or the Sault line towards the south. The Ontario Sault line is now located from Gravenhurst to Sault Ste. Marie by way of Contin's Island in French River. After crossing that stream it skirts the shore of the Georgi:an Bay and St. Mary's River till it reaches the Sault Ste. Marie, which it will cross by an international bridge to connect with the eastern extension of the Northern Pacific. The Northern Pacific proper commences at Montreal River, the boundary line between Michigan and Wisconsin, and runs to tho Pacific Occan. From Casselton, a fow miles west of Red River, a branch runs northerly towards the Canadian frontior, and by means of this branch it is expected that connection will yet be made with tho Manitoba South Western. The latter line is proièted from Winnipeg in a south westerly direction towards the Souris district. The first fifty miles are finishod and? the romainder of the line, which will be over 300 niles long, is under contriet. For a considerable part of its entire length it rums almost parallel to tho frontier and within twenty miles of the latter, but the point from which the southern spas to connect with the Northern Pacific is to be thrown out has not yet been announced. The following table of distances by this route will give some idea of the merits of the scheme in comparison with other transcontinental routes:-


## NEW DISTRICTS IN THE NORTIL-WEST.

The Dominion Government have, by Order-m.Council, divided the North-west Territory into four districts for certain purposes of administration. Theso, with their boundarics and areas, aro as follows:-

1. Assiniboin, which is bounded on the suuth by the 49 th parallel; on the east by the western boundary of Manituba; on the north by the ninth correction lime, * near the oind parallel; and on the Wust by a linn dividing the 10 th and 11 th ranges of tuwnships, numbered from the fourth initial meridian.* It contains about 93,030 square miles and includes the Qu'Appello, Souris, and part of the Suuth Sasiatchowan mivers, Furt Polly, Fort Ellice, and the Touchrood Hills.

[^1]2. Sasientcibwan, which is boundod on tho south by Assiniboia, on the east by Lako Winnipeg and Nelson River; on the north by the 18th correction line, near the 55 th parallel ; and on the west by a continuation northward of the western boundary of Assiniboia. It contains 114,000 square milos and includos Carleton, Battleford, and Printe Albert sottloments.
3. Axberta, which is bounded on the south by the 49th parallel ; on tho east by Assinibuia and Saskatchewan; on the rest by British Columbin : and on the north by the 18th correction line. It contains about 100,000 square miles, and includes the Battle, Bow, and Bolly rivor countrics.
4. Atmabaska, which is bounded on the south by Alberta; on the west by British Columbia; on the enst by a continuation northward of the western boundary of Assiniboin and Saskatchewan until that intersects Athabaska Rivor, thion by that river and Athabaska Lake and Slave River to the 32nd correction line, near the 60th parallel ; on the nurth by the 32 nd correction line. It contains 122,000 squaro miles, and includes what is known as the Peace River country.*

## miscellaneous.

The British North America Act provides for a revision of the scale of representation of the various Provinces of Cansada in the House of Commons of the Dominion Parliament after each decennial census. Tho unit of represontation is fixed by giving sixty-five members to Quebec, irrespective of population, and then allotting to cacin of the other Provinces tho number of members it is entitled to on a comparison of its population with that of Quebec. The census taken last year showed that Ontario was entitled to four members in aldition to those she already had, and effect has been given to this arrangement by Act of Parliament. In view of the rapid increase of her population an additional member has been given to Manitoba, and for some time to come, therefore, the membership of the House of Commons will be 211, made up as follows: Ontario, 92 ; Quebec, (iñ; Nova Scotia, 21 ; New Brunswick, 16 ; P. ince Edward Islimd, 6 ; British Columbia, 6 ; and Manitoba, 5.

The Dominion Parliament has voted a subsidy of $\$ 150,000$ a year for twenty-five years in order to secure the construction of a ship railmay across the Isthmus of Chignecto from Baio Verte to the Bay of Fundy-a distance of seventeen miles. Tho project of comecting the Gulf of St. Lawrence with the Baty of Fundy is an old one but no Canadian Parliament has ever approved of undertaking the work, and the ship railway project, the chief promoter of which is Mr. H. G. C. Ketchuim, has been offered as a cheaper substitute. The Bay of Fund'v terminus is fixed at the mouth of the La Planche River, and the Baic Verte terminus at Tignish Head. If-vessels can be carried from the Gulf of St. Lawrence to the Bay of Fundy by such a milway the length of the ocean voyage from Shediac and points further north to St. John, N.B., will be reduced by nbout 500 miles. It is estimated that the railway and the necessary docks and other worles will cost nearly four and a half millions. The annual subsidy just voted by Parliament is equivalent to a capital sum of less than two and a half.

[^2]
## sthathematical Beparturcm.

## UNIVERSITY OF TORONTO.

## Matmiculation-1881.

## ARITHMETIC AND ALGEBRA.

Examiner-Atfred Baker, B.A.

1. Define the terms "abstract" and "concrete" as applied to numbers.
Is $6 \times 3=18$ a correct solution of the question: What will be the cost of six postage stamps at three cents each $?$

Book-work. Yes, if we are careful to understand 3 as an abstract and not as a concreto number. Multiplication is merely a short way of doing a peculiar kind of addition in which the addends are all equal. The multiplier is the number which shows how often this addend is repeated, and camot therufore stand for anything but the number of times. It camnot, for instance, be three cents. But $6 \times 3=18$ may be exphaned thus:-If the price were one cent eac ${ }^{2}$, the cost would be $1 \times 6=6$ cents, but as the price is three times greater than one cont, the cost is 6 cents $\times 3=18$ cents, where 3 is a purely abstract number.
2. Define the numerator and denowinator of $i$ fraction, and from your definition prove $3 \div 5=\frac{n^{3}}{3}$.
When a unit is divided into equal parts there are two things to bo considered, viz: (1) The Number of equal parts, (2) The size of these equal parts. The numerator is the numbur used to express the former, and the denominator the latter of these two things.
$3 \div 5=$ quotient. $\quad \therefore \frac{3}{4}=5$ times quotient. $\therefore 3 \times 4=20$ times quotient. Now to multiply 3 four lis by 4, take the same number of parts, but increase the size of each part by 4 times; i.e. instead of 3 fourthy take 3 units. So then we get $3=20$ times quotient, or quotient $=\frac{20}{2}$ of $3=\frac{3}{3} \sigma$ of $1=\frac{3}{2} 0$.
3. Prove the rule for pointing in the extraction of the cube root of a number.
There is a metal cubical box of 96 feet durface and $1 \frac{1}{2}$ fect thickness; also threo solid cubes of amother kind of metal whose surfaces are is the numbers 1,4 and 9 , and whose combined weight equals that of the box. Find the lengths of the edges of the cubes, the weight of the latter metal being to an equal bulk of the former as 3:4.
Book-work.
Surface of one face of cubical bor $=16$. external edge $=4$, inte:mal cdge= $=$
 kind of metal.

Now in cubes the sides are as 1.2.3, and their soldaties are say $x^{3}, 8 x^{3}, 27 x^{3}$, i.e. their mass $=36 x^{3}$, and $=42$ cub. ft.
$\therefore x={ }^{3} \sqrt{ },{ }_{2} 9=\gamma^{3} \sqrt{357}=1 \cdot 21456$; and the sides are
$1 \cdot 21456,2 \cdot 42012$ and $3 \cdot 64368$.
4. $\$ 500.00$ is offered br a Building Society to be repaid in two annual instalments of $\$ 28500$ each, so that the debt is jiquidated at the end of two years from the present. Find the Society's rate of interest.

We have $285\{1+(1+r)\}=500(1+r)^{2}$

$$
\begin{aligned}
& \text { i.e. } \\
& \text { or } 100 r^{3}+143 r-14=0 \\
& \therefore r=100(1+r)^{2} \\
& \therefore \text { Rate } \%=143(-143 \pm 161.4)=9.2 . \\
& \text { The lower sign is inapplicable to the problem. }
\end{aligned}
$$

5. A bank wishes to realize 4 per cent. interest on its discounting operations. Form a table of the rates at which it must discount notes payable in 30, 60 and 90 days respectively.

Omitting days of grace, as included in given times, and taking 360 days - year, after the manner of banks, the times are $1, \frac{f}{f}$ and $\$$ of a ycar respectively. And the interest of $\$ 1$ for these times nt
 889 . Hence the P.W. in cach case is $381, \frac{280}{8}$, and 380 of the face of the note.

## The discounts aro therofore


0. State the advantages arising from the employment of Bills of Exchange. Defino "Par of Exchango" and "Course of Exchango"; mention any couses that imfuence the latter.

Book-work. In answer to the last part, wo may mention a high protective tarifl. This will increase the cost of all imports into the protected country, and thus increase the domand for bills and raise the rate of exchange in the protected country.

## 7. Prove tha following :-

The difierence between any common number of three digits and a number consisting of the same three digits in reversed order, is divisible by nine, oleven, and the difference of the extrome digits.

Evory numbur of four places, in which tro like significant figures have two cyphers between them is divisi jle by soveg, cloven and thirteen.

Let $a, b, c$ be the digits
(1). $\therefore N_{1}=100 a+10 b+c$

$$
\mathbf{N}_{\mathbf{v}}=100 c+10 b+a
$$

difference $=100(a-c)-(a, c)$

$$
=99(a-c) \text {, hence tho proposition. }
$$

(2). Let a be the digit at the right and left of the given number,
$\therefore$ Number $=1000 a+a=1001 a=7 \times 11 \times 13 a$.
Q. Extract the square root of
$\frac{1}{2} x-\frac{2}{5} x^{\frac{1}{2}}+\frac{18}{3}-\frac{1}{3} 5^{-\frac{1}{2}}+\frac{1}{5} x^{-1}$
If this is a perfect square it consists wholly of two sorts of terms viz., square terms, like $a^{2}, b^{2} \& c$., and double products, like $2 a b$, 2ac \&e. The negative terms cannot be squares; $\frac{1}{2} x^{\frac{1}{2}}$ and $\frac{1}{i^{-\frac{1}{2}}}$ are the square roots of the extreme terms, twice their produet is $\frac{\text { t, sub- }}{}$ thacting this from ge we have $\frac{18}{3}$ the other square term. Having regard to the signs of the two remaining terms we see that the square root is $\frac{1}{2} x^{\frac{1}{2}}-\frac{2}{3}-\frac{1}{4} x^{\frac{1}{2}}$.
9. If $\frac{a}{i}=\frac{c}{d}=\frac{e}{f}=\cdots \ldots$, then
$\frac{a^{n}+c^{n}+c^{n}+\cdots \cdots \cdot}{b^{n}+d^{n}+f^{n}+\ldots \ldots}=\frac{(a-c+e-\ldots)^{n}}{(b-d+f-\ldots)^{n}}$.
State the gencral theorem of which this is a particular case:-
(1) Let $\alpha=b x, c=d x$, \&c.

$$
\therefore a-c+\epsilon \& c=x(b-a+j-\ldots)
$$

$\begin{aligned} \therefore x^{n} & =\left(\frac{a-c+e-}{b-d+f-}\right)^{n} \\ \text { Also } a^{n} & =b^{n} x^{n}, c^{n}=d^{n} \lambda^{n}, \text { sc. }\end{aligned}$
Also $a^{n}=b^{n} x^{n}, c^{n}=d^{n} \lambda^{n}$, Sc.

$$
\therefore r^{n}=\frac{a^{n}+c^{n}+e^{n}+\cdots \cdot}{b^{n}+a^{n}+f^{n}}=(\mathrm{A})
$$

(2) If ${ }_{i}^{a}=$, then any fraction whatever formed by combining $a$ and $b$ or any of their powers, is egual to a similar and similarly formed fraction from the powers of cand d.
10. Give the different methods that may be employed in the solution of simultaneous equations.

Solve $\left\{\begin{array}{c}a x+b y=c \\ a_{1} x+b_{2} y=c_{1}\end{array}\right\}$
Interpret your results when (1) $\frac{a}{a_{1}}=\frac{b}{b_{1}}$; (2) $\frac{a}{a_{1}}=\frac{b}{b_{1}}=\frac{c}{c_{1}}$
The methods in common use aro (1) Method of comparison. i.e. finding tho value of $x$ in cach equation and putting these values equal. (2) Substitution of the value of $x$ in one equation, in the remaining equations. (3) Method of Indeterminate Multipliors. (4)
Cross-Multiplication. Cross-Multiplication.
Multiply 2nd. equation by $m$ and aad it to 1st.
$\therefore x\left(a+m a_{1}\right)+y\left(b+m \dot{D}_{1}\right)=c+m c_{1}$
(A)

Now give $m$ such a value as shall cause the cocficient of one of the unknowns to vanish, e.g. put $a+m a_{1}=0$, i.c. $m=-\frac{a}{a_{1}}$. Substitute this value of $m$ in $(A)$ and we get $y=\frac{a_{1} c_{1}-a c_{1}}{a_{1} b-a b_{1}}$. Similarly by putting $b+m b_{1}=0$, we get $x=\frac{b_{1} c-b c_{2}}{c_{1} b-a b_{1}}$
(1) Ii $\frac{a}{a_{1}}=\frac{b}{b_{1}}$ then $a_{1} b-a b_{1}=0$ and $x=y=\infty$.

Tho fact is the equations are contradictory under this condition. For if $a=k a_{2}$ and $b=k b_{2}$, we get on substituting these values in the first equations $a_{1} x+b_{1} y=\frac{c}{m}=c_{1}$, i.e. the same quantity equal to two different quantitics.
(2) If $\frac{a}{a_{1}}=\frac{b}{b_{1}}=\frac{c}{c_{1}}$, then $a_{1} b-a b_{1}=a_{1} c-u c_{1}=b_{1} c-b c_{1}=0$ $: x=y=\frac{0}{0}$ which is the symbol of indetermination ; $x$ and $y$ are indeterminnte, and one equation is in reality a multiple of the other, so that in fact we have only one equation betreon two unknowns. For let $a=k a_{1}, b=k b_{1}, c=k c_{1}$. Substitute theso values in the irst equation and it becomes $k\left(a_{2} x+b_{1} y\right)=k c_{1}$, a multiple of the second equation.

$$
\begin{aligned}
& \text { 11. Solve } x^{6}+4 x^{3}+7 x^{4}+9 x^{3}+7 x^{2}+4 x+1=0 \\
& \text { Arrange }\left(x^{3}+2 x^{2}+2 x+1\right)^{2}-x^{2}\left(x^{2}+x+1\right)=0 \\
& \text { i.e. }(x+1)^{2}\left(x^{2}+x+1\right)^{2}-x^{2}\left(x^{2}+x+1\right)=0 \\
& \therefore x^{2}+x+1=0 \text { or } x=\frac{1}{2}(-1 \pm \sqrt{-\overline{3}}) \\
& \therefore(x+1)^{2}\left(x^{2}+x+1\right)-x^{2}=0 \\
& \text { i.e. } x^{4}+3 x^{3}+3 x^{2}+3 x+1=0 \\
& \text { or } x^{4}+3 x^{3}+\frac{1}{2} x^{2}+3 x+1=3 x^{2} \text {. } \\
& \therefore x^{2}+\frac{8}{2} x+1= \pm \frac{x}{2} \sqrt{\overline{5}} \\
& \text { or } 2 x^{2}+x(3 \mp \sqrt{6})+2=0 \\
& \therefore x=\frac{4}{4}\{-3 \pm \sqrt{5} \pm \sqrt{ }(-2 \mp 0 \sqrt{5})\}
\end{aligned}
$$

which are the other four roots.
12. If $m$ and $n$ are the roots of $x^{2}+p x+q=0$, then $p$ and $q$ are the roots of the equation
$x^{2}+(m+n) x=\operatorname{mn}(x+m+n)$.
Find the quadratic equation which, when reduced to the standard form, has one root for co-efficient of $x$ and another for third term.
(1) We have $m+n=-p$, and $m n=q$. Substitute these
values in the second equation and
$x^{2}-p x=q(x-p)$, or
$x^{2}-(p+q) x+p q=0$. From which by inspection it is plain that
$p$ and $q$ are the roots.
(2) Let $\alpha$ and $\beta$ bo the roots, so that the equation as $\alpha x^{2}+\alpha x+\beta=0$
Then $\alpha+\beta=-\alpha$, and $\alpha \beta=\beta, \therefore \alpha=1, \beta=-2$;
and required equation is $(x-1)(x+2)=0$

$$
\text { i.e. } x^{2}+x-2=0
$$

13. When we have an expression equated to zero, when is it allowable to strike out a factor and still maintain the equation?
If $a^{3}+a^{2} b+a b^{2}+b^{3}=0$, then $a+b=0$.
(1) If an equation can be separated into factors, functions of 3 , the roois, obtained by equating each of these factors to zero, will be roots of the original equation. But if any factor does not invulvs the variable, $x$, or if it is necessarnly a positive quantity, it will not be allowable to equate this factor to \%ero.
(2) Exprcssion $=(a+b)\left(a^{2}+b^{2}\right)=0$

Now, either one of the factors, ur both the factors must $=0$, since their product $=0$. But $a^{2}+b^{2}$ is not $=0$ under any circumstances unless $a=0$ and $b=0$; for, being squares, $a^{2}$ and $b^{2}$ aro both positive and $\therefore a^{7}+b^{2}>0$, unless each is sep:antely $=0$. In this c.se therefore we cannot infor $a^{2}+b^{2}=0$, except under the conditions $a=0, b=0$.
14. For all possible valucs of $x$ the quantity
$\frac{x^{2}+2 x+3}{x^{2}+x+1}$ lies between 0 and 4.
Put given fraction $=k$, clear of fractions and arrange in powers of $x$, and we have
$x^{2}(1-k)+x(2-k)+(3-k)=0$
Now, in order that $x$ may be possible wo must have
$(2-k)^{2}$ not less than $4(1-k)(3-k)$.
i.e. $3 \dot{k}-12 k+8$ not $>0$

Now when $k=4$, left hand meniber $=8$
and when $k=0$, " " " $=8$ and for all positive values above 4, and all negative values below 0 the expression $>8$, and it is not $<0$ for any values ox $p t$ those $<4$ and $>0$.
$\therefore k$ lies batween 0 and 4 waen $x$ is a possible quantity.
15. Sinow how to find the sum of a geometric series.

If a circle be inscribed in a square, a square in that circle, a circle in that square, and so on $\alpha d$ infinitum, show that the area of the original square is equal to the sum of the areas of all the rest; and
that the sum of the porimeters of the first two squares is equal to tho sum of the perimeters of all the rest.

Let $s=$ side of original square, then, by Euclid I. 47., the sories of sides is $s, \frac{s}{\sqrt{2}}, \frac{s}{2}, \& c$. ad infinitum;
and the areas of the squares form the series $s^{2}, \frac{s^{2}}{2}, \frac{s^{2}}{4}, \& c . a d$ infinitum.
Now sum of areas of all squares but first
$=\left(\frac{s^{2}}{2}+\frac{s^{3}}{4}+\frac{s^{2}}{8} d\right.$ c. ad infinitum $)=s^{2}=$ arca of first square.
Sinitarly, sum of all porimeters except first two
$=4\left(\frac{s}{2}+\frac{s}{2 \sqrt{2}}+\frac{s}{4}+\& c\right.$. ad infinitum $)$
$=42\left(1+\frac{1}{\sqrt{2}}\right)=4 s+\frac{4 s}{\sqrt{2}}$
$=$ perimeter of 1 st. + perimeter of 2 nd. square.

## Syecial Axticles.

## THE TEACHER'S INFLUENCE.

by a. h. burnett, michibucto, n. b.

Every mind, in a greater or less degree, influences or is influenced by other minds. The mingling of individuals together and the different relations which ensue on this account must put those of greater strength in places of superiority; the weaker give way to the stronger. By personal contact with one another tle opinions, wishes, or sentiments of one porson affect others in such a way as to have a bearing on their lives and conduct. A single individual may possess in a remarkable degree this power of iniuencing others, which is mainly inherent but may to a certain extent be acquired. Itisknown under various names ; by some it is called "will-power;" by others "magnetic influence;" by others "force of character." By whatever name it is called it is always power.
Instances can be recalled by almost any person who is at a!l observant of human uature. An incident which came under the writor's notice well illustrates' this point. In a small town a religious meeting conducted by young mon on Sunday eveuings was frequently interrupted by a number of boys, who took a special dolight in whistling, groaning, and stainping during the service. This always occurred whon a certain gentleman was absent. If he was present no sooner would the neise begin than he would rise from his place, walk down and seathimeself in the very midst of the boys. He would never speak to them a single word but his presence had such power that they remained perfectly quiet. It seemed as if they were seized by a magic spoll and the greatest confusion was turned into stilness. Probably not another individual in the meeting could have done the same thing.

Now what was the secret of this man's power? It was not his physical strength, for others apparently as muscular as himself would havo been hooted at. It was not, his persoual appearance, for there was nothing extraordinary in it. It, was that indefinablesomething which certain persons possess and which constrains us whenever we aro near them to acknowledge then as our superiors. The teacher above all others should possess this power. Many teachers fail on this very point. There is nothing natural to them which commands the respect of others. They cannot gain and hold the respect of pupils and soon leave thair profession in disgust. They may mamtain order by a forced submission solely on account of their physical strength but they do not influenco the lives of those entrusted to their charge.

We moet somo porsons and minglo with thom it may bo for yoars, yet thoy never by their words or actions influonco us in tho slightest dogreo; with othors again our contact may bo only in tho form of a convorsation of a fow hours' duration, yot they havo given our thoughts such an impetus that wo remember them for years. Our relations with othors may tond to elevato our thoughts and feelings, to lift us, as it were, to a higher plano; or they may tond to drag us down, to degrade and pohite us. They may fill us with longings for the true and tho good, the ideal of beauty; or thoy may lower us in the depths of despair and destroy in us every feeling of strong endearour.

It is mainly by the powers of mind and intellect that one person controls and sways the minds of others. That a teacher docs, by his personal force, influenco his pupils is granted by all. Lung after his voice is silent his upiniuns will colour tho lives of thuse with whom he may have mingled. They in their turn will intluence others, so who can estimate the power of a 'strong-willed man? What is communicated thus unconsciously will remain long after the knowledge gained by books is lost. Some maintain that any one will do for a teacher as long as certain facts are remembered from books; that tho teacher is nothing, the knowledge overytining. How much that is learned in childhod is entirely forgottent in adult life! But that which moulds our destinies and dovelops our character is gained chiefly by our contact with the minds which influence us.

## SCHOOL CALISTHENICS AND GYMNASTICS.

As a matter of theory all teachers readily admit the necessity of allowing physical education to have a place in a goud schuol system, but all do not as a matter of practice pay systematic nttention to it as a part of school vork. The trainitg of pupils in the regular and beautiful exercises somprehended under some gord system of gymnastics and calisthenics is really tho only way in which physical education can be efficiently conducted, and it would bea good thing for the youth of this province of both sexes if the excellent example set by the High School authoritics of Chatham wero more generally followed. They have engaged the services of a thoroughly scientific and ingenious mastor, Mr. E. B. Houghton, himself an old pupil of Cpper Canada College, and if sume of thuse who are responsible for tho management of the schuols would pay a visit to Chatham and seefor themselves the results ho has achioved, there is little doubt that his services wuld be in demand in at least some of the neighboring towns.
The gymnasium building was erected and the appliances were purchased with money voluntarily sulscribed by friends of the school, the total cust being $\$ 450$. This sum sufficed to put up a building 3 5ift. by 50 it ., well furnished with bars, trapeze, ladders, ropes, poles, clubs, wooden rifles, single-sticks, foils, masks \&c., de Regular class instruction is given for at least two hours a week to each form, and the pupils of both sexes attain to such proficiency that the annual exhibition they give to the citizens of Chatham is by far the most popular public entertainment of the season. The funds raised by these exhimations is utilized in hoeping up the gymnasium and making additious to the school library.

Only those who have seen what can be accomplished by an enthusinstic and gentlemanly teacher of physical exercises with a class of pupils, are in a position to estimate calisthenics and gymnastics at their true value either æsthetic or sanit:ry, but both teachers and school boards may depend upon it that they are losing opportunities of conferring unspeakable bencits on the rising generation when they fail to givo these exercises a place on their school programmes.

## CORNELL ONIVERSETY.

Tho Annual Registor of the Comell Univorsity supplios interesting information concorning that institution. Tho history of tho University is a somowhat unique one. .The institution owes its existenco to the bounty of the United States and of Erac Cornoll, an eccentric, but wealthy and philanthropis citizen of the atate of Now York. In the yoar 1862, the Congress of the United States passed an Act granting certain public lands to all States which should "provide at least one College where tho leading object shall bu, without excluding otherscientific and classienlstudies, and including military tactics, to teach such branches of learning as are related to agriculture and tho mechanic arts." The amount of land thus approprintod consistod of thirty thousand acres for each senator and representative which each state had in tho National Congress. The sharo thus accruing to the state of Now York was no less than nine hundred and ninnty thousand acres.
In 1865 the legislature of the state of Now York incorporated "The Cornoll University" appropriating to it the incomo arising from the sale of the land thus granted. The chef conditions attached to this muniticent gift were that Mr. Cornoll should endow the University with \& minimum fund of five hundred thousand dollars, that the University should provide approved instruction in agriculture, mechanical arts, and military tactics, and also receive annually one student from oach Assembly District in the state, to whom instruction should be given free of ch.trgo. Mr. Cornell more than fulfilled the condition imposed on him by adding to the required endowment a splendid farm with tho necessary appurtenances. As there are ono hundred and tweasy-otght Assumbly Districts in the state, the freo schularships af all tilled up, would amount to five hundred and twelve.
The University was opened in Octoper 1868. The fuculty consisting of professors and assistant-professors, is aided by non-resident professors and lecturers. Among the latter are found in the Register for $1881-2$ the distinguished names of Goldwin Smith (English Constitutional History), Edivard Augustus Freoman (General European History), Dr. Adams of the University of Michigan, and others almost equally noted.
The University boing established by a government recognizing no distinction of religious beliof, seeks noither to protaute any creed nor to exclude,any. By the terms of its charter "persons of any religiuus denumination aro equally eligible to all uffices and appuintments," and it is expressly ordered that "at no time shall a majority of the Buard Trustees bo of one religious seet, ur of no religious sect." The Tniversity, howover, possesses a chapel in which religious services are helü and discourses delivered by representative clergymen of tho various Christian denominatiuns. The Register publishes the list of clergymen appointed, or requested, to officiate during the current jear. Tho selection seems to have been made on broad principles, almost all shades of religious opinion being represented. The Right Rov. Bishop Doane of Albany and James Freeman Clarko of Boston, may bo taken as typical extremes. The Canadian pulpit is worthily represented by Prancipal Grant of Queen's.

Tho President of the University from the beginning has been Andrew D. White, LL.D., one of the most distinguished Alumni of Yale College. Dr. White takes a lively interest in politics as well as in Education. For several ycars-while on leave of absence from the University-he represented his country as United States. Minister at the imperial Court of Borlin. The Register onrols the namer of 361 undergraduates.

## PHYSIOAL GEOGRAPHY.

BY (. R. CRUICKBHANK, M.A., HCIENCE MASTER IN CHATHAM HIOH scitool.
(.'man an andiress didicered before he Chatham District Teachers' Ansociation.)

In no branch of study shoull a youth desiring a liberal oducation be more thoroughly drilled than in geography. In conversation, in reading the nowspapers, at evory turn of life he is called upon to make use of his store of geogra phical knowledge. That Yankee who imagined Canada to be about the same size as Pennsylvania, soomed to be ridiculuusly ignorant; that Englishman impaired the prestige of tho Lunden Times who said that Montreal was connected with Detroit by the Victorin tubular bridge. The treasure of geographical frets is an unfailing source of gatification to its possessor, and their judiciuus use in converation will stamp him among his fellows as a woll read man. But do we not dovoto too much attention to the position of places? Are we not limiting geography too much to one branch of it, topography is

The object of education is to timin tho faculties so that the best use may bo made of thom to teach the mind to think intelligently and to form correct conclusions. Education should not only improve reason andejudgment but also store up in the mind valuable facts-food for thought. How far does geogriphy work out these results? Are theso numerous dotails of forcign lands desirable .na liberal education? Do our well read mon, our shining lights in science and letters, know them? I am not giving you my own opinion only when I contend that fulty one-half of our University graduates would bo inevitably plucked at the intermediate in geography. Why are thoy content to remain in such gruss ignorance? Why do thoy not take their attention from letters and learn to sketch the coast line from Copenhagen to Lishon ; to name the chicf towns on the rivors which flow from near the St. Gothard Pass? Such questions as this do not train the reason, nor do they cultivate good judgment. They exerciso the memory; they give a falso training and cran it with details intended to be forgotten.

And yot our pupils are expected to trace tho outlines of foreign cossts, to remember long lists of towns on far off rivers, while they would not be considered at all ignorant if they know almost nothing of the air thoy breathe, or of the ground on which they walk. Of the wind which faus them they knuw not "whence it cometh or whither it groeth." A friond, who had been a teacher, on boing asked the position of an American city, expressed surprise at forgetting it, remarking that a few years ago he knew every important town and stream in every state in the Cnion. On being asked if he was not sorry that he had forgotien, he replied that he was not sure whether he was or not. "What did you learn it for then?" "To pass the intermediate oxamimation," was tho reply. Such is " cram."
A good general knowledge then of places, a particular one of home and of forcign lands attracting public attention by war or notable events, and $\Omega$ sketch of mathematical and physical geography would realize more neally the object of study. A youth leaves school to settle on the farm ; most of the facts he has ac quired are forgotten never to be recalled; but the stars, the wind, the rain, the rocks-will day after day suggest thoughts to his mind, keop him thinking, and keep his mind from becomir- a cultivated waste. His geography would then be to him a pleasuro in solitude, an o:nament in society, a benefit always.
[The remainder of Mr. Cruickshank's prelection, to which the above is merely the introduction, contained a sketch of the topics he would include under a course of physical geography, these topics being all arranged under the three heads: (2) Land, (b) Water, and (c) Air.-Ed. Journam.]

## HOME LESSONS.

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BY D. C. MCIIRNRY, M, A.
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(Renderfore the Sorthmberland Tenchers' Aesociation, and publinhed Dy requeat of the Astociation.)

In order fairly to discues this question, it will bo necessary firat to agreo upon some basis as to the truo relation of the teacher to the parenit-the school to the home.
That this relation is a very intimate one will appear if we consider that, primarily, overy parent is directly responsible for the education of his own childron. Ho may undertake tho work himself, not only bofore his children reach school age, but also during the ontire course of their studics. Some parents prefer this suthod and adopt it. Our schoel law recognizes the right of parents thum to educate their ch?'dren- $n$ right which no one thinks of calling in question. In this case home lexsons are the only lessons formally given or recoived.

If all parents were personally gualtied thus to conduct the oducation of their childron, and if thoy could dovote to the work that anount of attontion which is necessary there are at least some very goed retanons why it might bo generally adopted.
It has been foum, however, that in most famil as this plan of home instruction cannot be carried out. For ma: reasons it is, an a rulo, quite impracticable. Henco the school, and ..se school-teacher.

Again, the parent may bring the teacher to the home, and, under the parental roof his children may receive instruction. Or, as a matter of convenience, the children may be entrusted to the care of the tenchor at a public school, for a cortain number of hourn a day.

Has the responsibility of the parent ceased, by reason of thim trimsfer? Has it ovon very materially changed in its character?
Contrary to the prevalent notions of many of the parents, I think we must maintilin that they are still directly responsible, in a great degree for the educational progress of their children; that the teacher is but the assistant of the parent; and that it is only in a limited sense that he can be said tu stand in loce parentis.
The question as to whether there shull be home-lessons thus becomes une merely of convenience or expediency. For, if all that the child properly requires at his age can be obtained at school, there need be no.school-work at home. If, however, the child cannot complete at school all that is reasonably required of him, a part of his work should be done at home.
The teacher must be held responsible for his share of the work of supervision and instruction; ard the parent must be held responsible for that part of the work whi, $\}$ naturally falls to him while the child is at home.
At this point such questions as the following naturally arise:
I. What is the object of home-lessons?
II. What should be the vature of home-lessons?
III. How should home-lessons le assigned?
IV. What are the duties of parents in relation to home lessons 1 V. What tine is required for home lessons, by the variou: grades of pupils?
I. I think the true object of giving home-lessons will be seen if we can first decide what we do when we are said to educate a chila.
I assume that all present are prepared to accept the statement thathe art of education consists in the practical application of principles gained by studying child-nature-the central principlo being that it is what the clild does for himself and by himself that carucates him.

If this be true, no system of education can bo accepted as correct which does not aim at securing such an exercise of natural powers as leads to their healthy development, and generally renders the pupil practically independent of the teacher's assistance. It must come to this if a child is to be alucuted. He begins at a pont whero he is entirely dependent. His advancement in true education is exactly in proportion to the progressive mastery he gains over his work, and the self-reliance thus developed.

What is learned at school merely lays the foundation. The pupil's subsequent life is spent in building unen this foundation, and that, too, without the aid of his teacher.

If he has comprehemed the work of laying the fumdation, especially if he has participated in the work, under skilful guidance, ho will bo able to proceed imelencaleatl! with the superstructure and his life will so far be a success.
If, on the other hand, the teacher has merely instructed, filled the mind with facts, made it easy fur the pupil at every step of his culurse-the pupil will be a weakling; the "fuundation" will be left without a superstructure-a monument at once of the teacher's indulgent self-sacrifice, and of his folly as an educator of youth.

Since, then, the pupil must ultimately be left without the immedinte aid of his teacher, the natural inference is that he should $b_{e}$ prepared for this perived by doing a certain amount $u^{6}$ home-nork and this work shuuld be increased as the pupil's powers are developed. In this way he is uaturally led from a condition of entire dependence to a state of practical independence.

The object of home-lessons is not, therefore, for the mere purpose of preventing idleness; nor for the purpose of relieving the teacher of his due share of the work; not even to give parents something to do; certainly not to punish pupils for short-cominge at school. Our aim should be tu train the pupils to self-cxertion, to give them the ability to depend upun their own effurts as students.

As a first result they will do better work in school. When it falls to their lot tu leave schuul, thuy will have been prepared fur manfully facing the stem realities of responsible life.
II. The character of home-lessons will be determined, of course, by the cobject we are aiming at. On this point I merely remark that home-rork should be such as lies directly in the line of ordinary school-work, and should be of such a character that the pupil by a fair amount of application will be able to do it, and do it wellthat, too, without the aid of others, either parents or schoolmates.

We bave lately heard a great many complaints from parents and physicians against home-lessons. While I believe that many of the objections are fritolous and unreasonable, $I$ am prepared to admit that in too many cases good ground for complaint is to be found in the following causes:

1. Home-lessons have been assigned to pupils of too tender years.
2. The amount of homework assigned has been too great, in the case of pupils capable of taking home-lessons.
3. The character of the work assigned, and failure on the part of teachers properly to prepare pupils for doing home-work, prove to intelligent parents that we are not really aiming at the truc object of home.lessons.

If complaints are based on either of these causes, they are well founded; and we will consult our own interests as teachers, as well as the interests of our pupils, if we look carefully into the nature of the work we are assigning and the object we have in viow in assigning this worl.
III. The character of the work will be further referred to instons siäcring the next point, "Show should home-lecsons be assignedivyethe
teacher?"
My first answer is-he should assign no work until ho is satiafied that his pupils have been prepared to do it; that is, they should be
in posscssion of all that is necessary to onablo them fully to comprehend and faithfully poriorm what is required of them. Unless wo carsfully guard this point, our home lessons will become $\Omega$ positive injury to tho pupil, and a perfect torment to all concerned.

It is not enough that the lesson be one of importance; it must be relatively appropriate as home-work for the pupil in question. From this it would follow that home-work, especially in cass of young pupils, should consist mainly of reviews, that is reviews and exercises on the work which has beon taught during the day.

Elen in the case of senior pupils the assignment of home-work must proceed, to a certain extent, on the same principle. There should first be lucd explanations and ample illustrations by the teacher.

This dunu, we shall have more satisfuctury results, and fewer complaints from parents.
Every observant teacher knows that nothing tends to discourage pupils mure than the imposition of unreasouable burdens; and every good teacher will admit that it is unreasunable to demand work of our pupils for which they have not been suitably prepared.
Neglect on our part in this particular first shows its effects in a long list of delimquents in home-work. Our first impluse is to regard it as neglect, and repeat the task-probably with something added. A second f.iilure follows; but no awakening of our dull powers of comprehension-even though among the delinquents we find pupils whom we had hitherto considered bright and clever. The only conclusion we arrive at is that we have altogether over estimated their ability, and must give them a lower class. Possibly we may conclude that $a$ flogging is about the best corrective, and punishment is it:' ted with all the formal solemnity which is befitting the c,ccasion. Of courso this has its effect, though probably not the desired effect. Ourwork is yet undone, and our once bright, clever, amable pupils nuw appear to be buth stupid and stubbom!' There are various ways in which bright and clever pupils may be made dull and even stupid. I haw of no way move elfictual than the one just described, in connection with home-lessons.

On a formar occasion I ventured to express the opinion that many failures at examinations are directly traceable to the practice, on the part of some teachers, of allowing a few clever pupils to guide and contrul them in dealing with ordinary class work. I am only confirmed in my opinion, and now apply the remark to the assigning of home-lessons.
If our pupils have been classified, (and this is of prime importanco) we may safely take as our guide, in class explanations and assigning home-work, not those who are alwaya ready with an answer, but rather that purtion of our class who fail to solve problems with rapidity and accuracy. That school inspector undersinod this principle who, on visiting a school, asked the teacher to show him his poorest pupils, that he might first examine them. If classification is at fault, of course it must bo rectified. But this point settled, le 1 us berare of overlooking the just claims of those who most need our help, to impose on whom the home-work of others would be not only a waste of labor but a positive cruelty.
The charge is frequently made against us that ihere is now com. paratively little actual teacling done- that we have substituted therefor the assigning of home-lessons and tho hearing of recitations. I am not prepared to say that this charge is wholly unfounded; though I trust that the evil is disappearing with the more general diseemination of correct views on the science and art of teaching. If, however, I were specinlly commissioned to test any school, or number of schools, on thin point, I would look for evidence first in connection with home-lessons. If the assigning of lessons in mathematics, for example, has been preceded by suitable explanations of the principles involved, and accompanied with a few practical
esty by which tho teachor pight know that his remarks had been understood by all-I would auturally oxpect a faithful night's work, and a good account of it in the morning recitation. If, on the other hand, theso proparatory oxplamations wore not given, but now work hurriedly dealt out by the page or chapter as tho classes wero being dismissed, I would anticipate hours of'iveary work, faithful but fruitless toil, nad a poor roturn in the morning on the pant of the weaker but no less meritorious pupils. -

In a word, no true teacher will assign homo-work until by his teachings he has made the desired results reasomably attainable by his clasi. More than this, he will endeavor to appreciate the honest efforts of his pupils by carofully examining their home-work and giving credit where it is due. Failure in this respect is extremely discouraging, and will surely foster carclessness and oven dishonesty in those who would otherwise be studious and self reliant.
IV. Duties of purents in relation to home-lessuns. I would suygest that parents, first of all, come to a distinct understanding with the teacher as to the nature and amount of home-work required of their children. This mutual understàuding can be arrived at by a risit to the school on the part of the parent or by a call on the part of the teachor. It nay be kept prominently before both parents and children by our inserting in the monthly report the length of time the pupils should devote to home-work modified, of course. as this work increases.
I fear that from a want of intimacy to this oxtent, at least, many teachers are practically alienated from the fanilies of their pupils.
The true relation of parents and teacher-working for a common object-is never realized while practical sympathy and mutual cooperation are wanting.
No teacher can properly teach a chld untal ho first learns his disposition and general character. In urder to the he must know something of his home-life.
Failing in this particular, he is m danger of treating all his pupils alike, by assuming that they are equally capable of doing the same work ; that all are alike farorably situated at home for doing the work prescribed; and he accordingly holds all equally rosponsible.
Parents may co-operato (1) by setting apart certain hours, and, if. practicable, a private room for hume-study ; (2) by fathfully adhering to this plan-never permitting trifes to interfere with established regulations; (3) by encouraging their children to surmount obstacles, without actually doing their work for them ; (4) by keeping prominent the truo object of home-iork, showing their chldren that.real success is measured rather by mental development than by rapidity in learning lessons; (5) by carcfully guarding the teacher's reputation ; (6) by occasionally visiting the school. With such co-operation the school would indeed become the friend of tho home, and the home the friend of the school.
VI. The tine required for home-lessens by the werrious grades of pupils. On this point I shall merely give the result of some inquiriec as to the practice which obtains in certain villages, towns, and cities.
In Brighton Public Schooks, I understand that-
In the first form no home-work is assigned.
" second "about 1 hour's work. -
$\left.\begin{array}{l}\text { " third " about 1t } \\ \text { " } \\ \text { fourth " } \\ \text { about } 2\end{array}\right]$
In Coboury Modei School and Public Schools. first form, no howe-work. second " $\frac{1}{\frac{1}{2}}$ hour's " third " it " " fourth" 2 " "

## Toronto Model School-

First form, no homo-work, unless it bo a question in addition at solicitation of pupils.
Siecoul form, only two lessons-ono ma spoling and one in arithmetic or writing ; time half an hour.
rhinit form, only thyec lessons-spelling and arithmetic, and grammar or goography ; time 4 hour.
Fourth form, usually three lessons; time 1 to $1 \frac{1}{2}$ hours dopond"ug un the ability and apphcation of pupls.
;Fifth form, three or four lessuns ; tine about $1 \frac{1}{2}$ hours.
Such subjects is grammar, gengraphy, (ic., are always taught at school, and tho home-lessons are simply revicus. This is true of all subjects assigned, except spelling, until the hggher divisions are renched.
City of Hamitton Public School-
Ilirst forre, no home-work.
Second " $\frac{t}{2}$ hour's "،
Third." 1 "
Fourth " 1 to 14 "

To show how home-work increases with promotion, I give the areraye time devoted to home lessons bypupils of Cobourg Collegiate Institute.-

$U_{p y e r ~ S c h l}$ " average 6 hrs .
Average for the school, about $4 \frac{7}{2}$ hours.
In conclusion, permit me to suggest that we try to bring our schools and hones into a closer and more friendly relationship, in order that both parents and teachers may more efficiently discharge those duties which belong to them in the work of education.

## Examimation Qutestions.

## Strathroy high school monthly exammations.

interature. -Cowper's Tash, Buok III.
I.
(a) Lines $48-54$.
(b) $" \quad 71-74$.
(c) " $567-569$.
(d) " $687-688$.
(c) " $261-262$.

1. Quote the three lines that follow extract (a).
2. Point out and name all pootic figures in the several extracts.
3. Expand all metaphors.
4. Parso, as (a), white (b), to own (b).

万. Parse, of minc (b), and give reasons for your view.
6. Quote lines sinilar in language or sentiment to any in the extracts, and name the authors of the lines quoted.
7. 'Derive, 'nurse' (a), 'zoncless' (a), 'frail natrons' (b).
8. Discuss theappropriatenoss of theopithets, 'reeling' (a), 'fickle'
(a), 'exotic'(c), 'dishovelled' (e)
9. Show the connections in the poem in which the last three ex-tracts occur.
10. Show in what way suy of those lines reflect Cowper's characII.
(a) Lines 173-176.
(b) " 249-201.
(c) $41757-759$.
(d) $s$ 803- 810 .

1. Point out all poetic figures in the extracts.
2. To what is the reference in extract (11). Give a quotation similar in language or sentiment.
3. 'Piety has found friends in the friends of science.' Rufer to examples of this in the past and present. Explain the reference in 'Castalian dews.'
4. Explain fully the meaning of extract (i).
5. Paraphrase extract ( $n$ ).
6. Parse, but (u), proces (ca), so (1).
7. 'Surfeited,' 'lewd,' (e). Write notes on the meaning and derivation.
8. Give a sketch of Cowper's life at the time of his writing this poem, and show how his mamer of life is reflected in the poem.
9. "If Cowper was nut the founder of a new school of pretry, he was the pioneer of a new era."
Explain the meaning of this and discuss the statement fully.
10. Wordsworth speaks of the Task as combining the Philosophical Satire, the Didactic Poem and the Idyl. Discuss the apropriateness of this description.

## inammak. <br> I.

## 1. Analyze

For whect are men better than sheep or goats, Thut nourish a blind life within the brain,
If, limouing (ioul, they lift not hands in prayer, Both for themselves and those who call them friends?
2. Parse all words in italics.
3. Is 'that' in second line preferable to 'who' or' which! (ive reasons for your answer.
4. Give the mood of all the verbs in the following sentences, with reasons ;-
(a) If these boys were yours, what would you do with them?
(b) Had you been there you would have seen a strange sight.
(c) If my father and mother were not at home they were in London.
(d) If he lost his money he would never be happy again.
5. Correct or justify the grammar of the following sentences, with reasons;-
(a) I called on him and wished to lave submitted my manu script to him.
(b) I had not the pleasure of hearing his sentiments when I wrote the letter.
(c) Having to pass an examination for admission, a few months preparation at a High school is strongly recommended.
(d) I had intended to come before I received your letter.

## II.

1. Analy\%e.
(a) "So live that when thy stmmons comes to join The immumerable caravan, which moves To that mysterious realm where each shull take His chamber in the silent halls of death, Thou go mot like the quarry slave at night, Scourged to his dungeon."
(b) "All men think all men mortal but themselves."
(c) "Here rests his heal upon the lap of earth. "A youth tofortune and to fame unknown."
2. Parse all italicizel words.
3. Correct, where necessary, giving reasons.
(a) I think I will return home next week.
(b) I expected to have been at home when you called.
(c) I never have nor never will forgive him.
(d) That is seldom or ever the case.
4. Define the terms 'tense,' 'person,' 'strong conjugation.' How many primary tenses are there? Why so many?
5. Explain the basis on which verbs are classitied into strong and weak, and illustrate your answer by an example. Conjugate and classify flow, clu!!, sit, set, liowsi, H!!.
6. What is an anxiliary verb? Explain the use of each of the auxiliary verbs? (Give examples illustrating both the auxiliary and the notional use of those verbs.

## \#nartical Dipartment.

## LESSONS IN CHEMISTRY.

## (comintied from lest munth.) <br> (HAPTER II.

18. . An arid is a booly containing one or more atoms of hydrogen, which are capable of being displaced by a metal, either partially or entirely. The term was originally applied to substances soluble in water, having a distinctly som taste and eapable of turning vegetable blue into red. Blue litmus is the common test.

Bises are compounds which never become acids, but which will mader all circumstances combine with acids and neutralise them either partially or entirely ; the latter are called Alialics.
. Ikaliex are generally soluble in water, have an acrid, nauseous taste, restore the blue color which has been turned red by acids, turn vegetable blues into green, and browns into yellow. Ammonia, potash, and soda are the common alkalies.
There are trou classes of bases.
(1) Oxinles of the metals, as $\mathrm{Ag}_{2} \mathrm{O}$.
(2) I!ylictes, which are compounds of metals with hydroxyl $\left(\mathrm{H}_{2} \mathbf{O}_{2}\right)$. To this class we must add ammonia ( $\mathrm{NH}_{3}$ ).
Nalts are compounds formed from the union of an acid and a base. There are three classes of acids.
(1) Acids containing oxygen, and having names ending in -ic or -omes, as nitric acid, $\mathrm{HNO}_{3}$.
(2) Acids containing sulphur, instead of oxygen. These pretix sulph-or sulpho-, as sulphocyanic acid (CN)HS, sulpho-carbonic acid, $\mathrm{CH}_{3} \mathrm{~s}_{:} ;$, some writers use the pretix thio-, from theion the Greek name for sulphur, as thiocyanic, thio carbonic, thiostannic acids.
(3) Acids formed by the union of hydrogen and another element. These prefix $h y / l^{\prime}--$, or $h y d r o-a s ~ h y d r o b r o m i c ~ a c i d ~ H B r, ~ h y d r o-~$ cyanic acid HCN, hydrochloric acid HCl .
The first class are called oricucids and the third hydrucids. When a portion of water is abstracted from any oxiacid the residue is called an anh!llide, thus:--

$$
\begin{array}{ll}
\text { Sulphuric acid } & - \text { water }=\text { sul }_{1} \text { huric anhydride. } \\
\mathrm{H}_{2} \mathrm{SO}_{4} & -\mathrm{H}_{2} \mathrm{O}=\mathrm{SO}_{3} \\
2 \mathrm{HNO}_{3} \text { (nitric acid) }-\mathrm{H}_{2} \mathrm{O}=\mathrm{H}_{2} \mathrm{O}_{5} \text { (nitric }
\end{array}
$$

Acids are merely salts of hydrogen, and the amount of hydrogen present determines the basicity of the acid. Thus nitric acid contains only one atom of displaceable hydrogen, hence it is mom-basic; sulphuric acid $\left(\mathrm{H}_{2} \mathrm{SO}_{4}\right)_{\mathrm{H}}$ is di-basic, and has two atoms of hydrogen; ortho-phosphoric acid, $\dot{H}_{3} \mathrm{PO}_{4}$, is $t_{\text {ri }}$-basic, etc.

Salts containing oxygen are of three classes:-
(1) Normal salts in which all the hydrogen of the acid is replaced by a metal, or by a group of elements that goes in and out of combination like an element. (N.B. A group like this is called a rculical and its name generally ends in - $1 / 2$ as hydroxyl, HO ).

Examples:
$\mathrm{KClO}_{3}$, potassic chlorate from $\mathrm{HClO}_{3}$.
$\mathrm{NaSO}_{4}$, sodic sulphate " $\mathrm{H}_{2} \mathrm{SO}_{4}$
Ag NO., argentic nitrite " $\mathrm{HNO}_{2}$, nitrous acid.
$\left(\mathrm{NH}_{4}\right) . \mathrm{SO}_{4}$, ammonic sulphate from $\mathrm{H}_{2} \mathrm{SO}_{4}$
(2) Acid salts in which the hydrogen of the ucid is partially replaced by a metal or a radical. Examples : carbonic acid, $\mathrm{H}_{2} \mathrm{CO}_{3}$ yields sodic hydric carbonate, $\mathrm{NaHCO}_{3}$, with only one atom of hydrogen replaced. Sulphuric acid, $\mathrm{H}_{2} \mathrm{SO}_{4}$ yields $\mathrm{KHSO}_{4}$, potassic hydric sulphate.
(3) Basic sults are derived from nomal salts by the substitution of oxygen for an equivalent amount of the radical.



## NOTES ON HYGIENE.

BY J A. WISMER, PRINGIPAL OF PARKDALE PUBLIC NGBOOLS.

## (Continued from lust month.)

Let us next examine the ear. It consists of three distinct parts the outer ear or lobe, the middle ear or tympanum, and the immer ear orlabyrinth. The lobe you can examine for yourself, consequently I need not describe it. It is an fashioned that it can with the greatest success receive sound and transmit it to the inner car through the auditory canal. The tympanum or drum is a cavity behind a dense slanting fibrous membrane called the membraun tympani, behind which there is a tube leading to the pharynx or upper part of the that a calfer the Eustachian tube. The labyrinth or internal ear comsists of three parts, called the restibule, the cochlea, and the semicircular canals. Sound is tramsmitted from the vestibule to the brain through the auditory nerve. The cochlea is shaped somewhat
like a common smail shell. The semicircular cathals are six in number all opening into the chamber or vestibule of the inner ear. There are three curiously shinped little bunes in the inmer ear, namely, the malleolus or hammer, the incus or anvil, and the stapes or stirrup, all of which move when somad is transmitted. Very houd and mexpeeted somds, as the diseliarge of a cammen clase to the ear, are agit to rupture the membrama tympani and canse permanent deafness in one ear if not in louth. Boiler-makers, engine-drivers and many machinists in time, become more or less deaf from the continuous strain on the ear made by loul sommes. Nothing should ever be allowed to enter the ear, or he pat into it, with perhaps the single exception of a little warm sweet oil and a few drops of landanm in severe cases of ear-ache which is exceedingly pinful. If any foreign sulstance as a hean, pea, or an insect shombaccidentally get into the ear you had better call in the aid of a surgemas quickly as possible. Good uyesight and good hearing are two of the greatest blessings conferred on mam by his leneticont Creator ; take great care, therefore, of both the eye and ear in youth, in order that they may serve you well, even to extreme old age.

We will consider next the hygiene of the bones and museles, and then vary our course by some hints on bathing, swimming, common accidents, \&c. which will no doult prove more interesting, (especially to the liיy: y ).

The muscles and bones refuire activity ar use to make them strong and healthy; labor improves and strengthens the muscles, while laziness or inaction weakens them. Great benefit may be derived from athletic exercises within certain limits, also from dumbbells, club-swinging, and militiary drill. The bones of a young child co... . very little lime or earthy matter and are comparatively weak. Those of old people, on the contrary, contain much more lime than animal matter, and are therefore more lable to break. A broken bone may be detected, generally, by the abnormal displacements of the muscles or soft parts starounding it. A grating noise can also be heard when the broken ends are slightly moved against each other. If the fracture be one of the bones of the arm or leg, bind strips of cotton or a couple of pocket handkerchiefs around it after extension and straightening, then apply two splints made of shingles or whatever thin wood may be handy, and send for the nearest surgeon.

Everybody should remember tor sit, stand, and walk erect. A perfectly upright carriage of the body is conducive to the beaty and symmetry of its barts. Children at schowl should sit erect during their various exercises; this should be especially remembered when writing or drawing. Improper positions at sohool induce round or stooped shoulders and often curvature of the spine. Extension motions or calisthenic exercises should form part of every school programme. Walking or horse-back riding are important aids to health. Every healthy young person ought to know how to ride a horse, and should be able to walk five or six miles without feeling any inconvenience.

Everybody slould know how to swim. First get yourself accus. tomed to the water in shallow places by repeated hold dashes ; if you go under a fow times all the better. When you have thoroughly overcome the shrinking and mervousness accasioned by the contact of water with the less exposed portions of the body, you have taken the first important step in learning to swim. The contidence thus gained is half the battle. Then practise paddling with the hands and feet with the body thrown either backward or forward. Learning to swim on the back, as the boys say, is the easiest method if you have sutticient contidence. Never mind your ears, all you reguire is to have the nose abowe the surface, keed the hands and fect in motion under water, and you will not go down. Notice the movements of the legs made by that splendid swimmer,
the frog, and practise them yourself. These are the leg motions, then throw the body forward and, always being careful to keep both hands and feet under water and in motion, practice will then enable you to master the art of swimming without difticulty. One writer says (and there is comsiderable truth in it) that if suddenly submerged, keep cool and perform the notions with the hands and feet of a person climbing up stairs on all-fours, and you will not sink even if unaccuainted with the swimming art. This is worth remembering by thense who camot swim. In view of the disastrous accident to the steamer Quer" Victorin at London and the enormons loss of life on that "ccasion, it would be wise for those who take holiday excursions ly lonat to provide themselves with a tight fitting cork jacket coming high up the neck. Persoms should not bathe or swim while the stomach is engaged in the act of digestion, or, in other words, not for a comple of hours after meals. Boys after racing to the water on a hout day should wait until cooled oft before plunging into rather cold water. 'There is not only danger of cramp, but the sudden lowering of the temperature of the body may induce serions disease of the internal organs if inclined to be weak. Race aroumd as much as you like after a swim but not before it. The body should be briskly rubbed with a coarse towel after a bath. Before diving it would be well to plug the ears with cotton batting, as the water is not only uncomfortable to the middle ear, but also injurions. Opening the eyes under water is, to many, a somewhat difticult thing to do. It would be well to practise it however in clear water, as it may enable you to save a human life.

For the method of resuscitating a person apparently drowned, see the September number of the Canala S:hool Journal for 1881.

## HIN'IS TO 'TEACHERS OF PRIMARY CLASSES.

BY S. P. IUOBINA ESQ. INSPEUTOR OF PUBLIC SOHOOLS, MONTREAL.

1. Remember that, inasmuch as you are left very mach to the guidance of your own judgment in the management of your class it is especially necessary to use all your observant and inventive faculties for securing the best possible result of your labom.
2. That best possible result is the thorough preparation of each of your pupils to prosecute his studies and perform all other duties well hereafter. The first aim is not a high standard of attainment, but in grod discipline of mind and manner, so far as it can be attained with each little pupil.
3. Because the habits of thought and action that are earliest formed are the most persistent and intluential throughout life, and because the imitative faculties of a little child are especially active and his nature peculiarly impressible, yours is the most important work done in school. It is difficult work but, if well done, you deserve corresponding consideration and honour. If you do not get them now, yet, your heart and life being right in other respects, you will secure them hereafter.
4. As you are conducting, in common with other painstaking and successful teachers, a great experiment in the management of halfday classos with very little children, carefully observe whatever in your manner, or in the ingenious devices to which you will be led, makes for your success, practise it diligently, and tell of it to others. DISCIPL'NE.
There is no need of reference here to the mode in which the successful teacher acquires ascendency over each of her pupils by strength and consistency of character, by a loving heart, a kind manner, and a clear and vigorous understanding. All these things are presuynused in the successful teacher. When, as in my presence less than twelve months ngo, a teacher says to a class "I will look at the slate of no child out of place," and then in less than a
minute does so, it is not surprising that her class despise hor authority, and make littlo or no progress. One who can promise so lightly, and forget no readily is fit for no important tiust ; certainly, not for that of the teacher. Hut there are many things, little m thomsolves thuugh importasst in their resulta on discipline, which we sometimes overlouked oven by those who have all the essential elements of excellent tenchers.
5. Consider well tho disposition of a little child. Ho is active but undisciplinod. Ho longs to know, takes great delight in learning, -he loves to do, takes great delight in putting liss knowledge into practice. But then he has but littlo porsistency and steadiness.
6. You must, therefore, when he is not at play, teach him constantly or keep him doing constantly, and this with rapidalterstions from tho employment of his mind to the employment of his body.
7. So you must never be without a definite plan of action that shall engage the attention of every child. A hali minute's embarmas. ment of the teacher in the presenco of the class will work ruin in its discipline for the time being, and a chld with nothing dennate to do at any time duyng the schoml session becomes forthwith a centre of disturbance.
8. You must not put too prolonged a strain on the feeble power of attention in pupils of the preparatory atite. Let your work be varied and your lessons short and lively. Let the teachors who will follow you in the school course have must of the trouble involved in securing long continued and con ontrated attention.
9. Frequent change wf romms will much facilatate your work. In some schools visited there is not nearly enough of thas. Your class should occupy two fooms during parts of evely hour. This may compel you to change in the andille of a lesson, but you can so -hoose the lessons that the interription wil' not be harmful.
10. Much aid to disenpline is afforded by the drill of changing roums by simple calisthenic exercises and ly evercise sougs. But this aid is secured only by the enforcement of prompt and exact obedience.
11. Hence the lightest tip of the bell should le followed by immediato and intensesilence, not, however, permitted to continue long.
12. Hence also the first word of cach command must be so chosen and given as to suggest invariably what is to, follow, the next and finishing word of the command must be the signal for the prompt, universal, and therefore simultaneous execution of the command.
13. Hence also no second command should be given mint the first has been universally and precisely obeyed.
14. Finally, the effect of each rommand must be minutely considered beforchand. For example, in a series of commands, those first given should hethose that can be evecuted noiselessly, the whole surics being terminated by that one which necessarily involves disturbance.

## teaching.

1. You must yourself be accurate Thedistinction betweon the well educated and the imperfectly educated is just here, that the one is, the other is not, automatically mad minutely correct in recollection, in mode of thought, in manner of expression. Isaw a teacher, printing un the black-board for the imitation of her class, make a small w thus, W. Do not teach anything that must be subsequently unlearned.
2. With little children, especially at the uutso, much attention must bo given to them individually. This, however, in many instances can be done su as to intorest others nut directly addressed, who mayba appealed to to gire the information that taeir companion requires.
3. The offect of every collective lesson is greally incoased whon overy child attends to the whole lessun. But this ritontion can
be secured only by making each child feol that in all you ary you havo roferonce to him.
4. Hence recitations and other exercises must not bo wholly, nor even principally, simultinesus. No more convincing ovidonco of idleness or of inexperionce on the part of a teacher is needed than the general inability of a chass to ropeat andividually, what in concert, or rather following the luad of one or two, thoy can in sing-song style deliver simuitaneously.
5. In questioning a class you should not give it to bo undorstood whether you intend to have the answer from the whole class or from any particular pupil until after your question has been asked and a momentary pauso for zellection and recollection has been allowed. After tho panse y"u may siy" "Juhn Brown" or "any ono" and then expect in instant answer. Thus you provent one or two bright p'pils suggesting the answer to all the rest of the class, and you secure the attention of each to the work in hand.
6. Tiake care that each child gets a fair share of yuestioning. Sumetimes the temeher has a fow names that smmehow spring first to the tomgue, and their owners get the lim's share of attention. When the teacher is conscions of thas iet her make sure of each child occasionally by some such device is the fullowing. Let the whole class stand, and, as questions are answored by individuals, let them sit. Thus proceed until every child is seated.
7. Holding up the hand to indicato the wish to reply to a question is open to great abuse. Forward children answer overything. Tmid or udificent children answor nothing. It is a good rule that tho hand shatl not bo held up except when another pupil has made a mistake or whon the teacher, in asking a question that she. thinks a lattle tow lave for tho class gonemally, givos spocial permission to rase it.
8. Rising from the seat, ruming after the teacher, thrusting the hand into the teacher's face, snapping the fingers are highly improper acts, instances of each of which 1 have soen as importunate offorts to attract tho teacher's attention. At times the teacher by standing so that she cinnot see the whole chass, is tho direct causo of such rudeness
9. It is impussible to carry on work with the active co-operation of the tewher in two classes at once. Having given one class an exercise on the slates, or one of some other kind, that has beon properly explained, that is within their power, and the result of which can bo subsequently examined by yourself, bend your undivided attention on the other class.
10. In the examination of slate work it is, as a rule, better that the children bring it to the teacher, than that the teacher go to examme it. Hence in cuery room pupils should be taught how, without marking time wr marching muisily, to move in single file before the teachor showing work as theypass slowly, and thon to return in order to their plases, having completed the circuit of the room.
11. Home-work isnot needed in prefaratury classes. It will much conduce to good order, therofure, if buoks, slates, and pencils be alwnys left in schuol moder the care of the teacher.
12. The preparatory limit-table should be interpreted rather as a maximum than a minmum.

READING.

1. Tise cards frequently for indis dian, as well as fur simultaneous readinge
2. Do net confine yourself to the set urder of words. Pick out worisitherejind there; read backnard as well as forward.
y. inad stopposed the teaching of reading by spelling thus, omm eo 胧登, d double geo egg, to bo obsolote; really, Ifind it unly ubsolescent. If a word be analyzed at all, ful purpuses uf reading, it should be by tho powers and not by tho names of tho lotters.

## A BITHMETIC.

1. If you have not an abacus that stands on feet, ask for one. 2. Use the abacus yourself, but let the chaldren also use it constantly:
2. Do not aim at going beyome the lindt, 20.
3. Let overy kind of relation ansong numbers be taken with each successive number; i. $\subset$, do not teach addthon first, and then sub. traction, multaplication and davision on surcession, but teach all threo operathons, as mentally performed, smultaneously. Thus, that three and three are six, that three tahen fromssix leaves thee, that twice three aress, that three is the half of sos, and that there is contaned m six twice, are but datterent wayo of regarding the same fact.
4. See that you have, use yourvelf, and set the chaldren to use seales and weights, a twofinit rule, a chock card, and a compass.
5. Object lessons must he very simple, hut they ought to be moro or less, on that account, carefully prepared. It is a pannful thang to see a teacher standing before a class puzaled to how what to do or to say neat.
6. Simalarly a story showha be prepared beforehand. Great interest will be added if the teacher stmply illustrate her story by drawing on the black-board as it proceeds.
7. In questioning chidren on all sulojects the aim should be to get connected answers of some length, bat this can only be very slowly accomphashed.
8. Teach chaldren to sing dixtinctly but not too moishly. The muscial eftect of a perpetuai bawl is even worse than that of a perpetual whisper. It 18 no harm to have an ceasional fifif. passage, but let us also occasionally have $p \cdot p \cdot \rho$.

## Mincllaneor.

1. Stand so that you can see all the chindren of the class, and so that each one of them can see, when necessary, what you do and how you do it. Sometimes it is well ter overlouk chiddren from behind.
2. Be not noss. Speak distmetly and quetly, su that children will histen to hear you, do not shont so that they must hear you
whether they will or no. Even if a busy hum of work (pleazant to whether they will or mo. Even if a busy hum of work (pleasant to hear) fill the room, dobot raise your volce toomuch; call attention by a light stroke of the beil before you speak, then speak in the midst of a profound slence. Pointers and rulers were not made for banging desks with. Teachere' feet have other purpuses than
stamping on the flow. stamping on the flowr.
3. Be not fussy. Self-possession, that quietly takes note of all surroundings and that adjusts itself umruftled and withont effort to them all, is the secret of easy government, as it is also the last refinement of the perfect gentle-man.
4. Look out for short-sighted children, and for chutdren who are hard of hearing. These physial imperfections ate often whanown to the children themselves, and hong escape the notice of pat ents and teachers. Tnfortunately not only docape they give an apyparance of
stupidity to children that are veally byint stupidity to children that are really hight, but they must seriously retard progress unless compeneated by the considerate arramements of the teacher. Let as many eaercises as possible cause childrents
lift the eyes up from looks to lift the eyes up from looks to maps, pietures, ohjects at a distance and work done on the black board, so that the tendency to shortsiont.
ness may be, so far as possbble, checked.
5. Embrace eagery any cpportunity that may be afforded you of visiting the classes of other preparatory teachers. I have secon some excellent work done in some of them, and in almost all the work is good. There is not a single class in which I have not seen at least one thing done so well that I could wish all other teachers of the same grade had an "Ipertunity to see it.

## SCHOOL LE゙NCHES.

> BY FIGRFNC'F B. HALALOWELL, WANHINGTON, b. r.

This subject, thongh seldom if ever touched upon by the general press, is certainly of sufficient importance to be discussed in The Joursal; bearing, is it does, direct'y upon the ability of children to grasp matelligently the ideas prese ted by the teacher.
Not long since I chanced to be present at the noon. dioir nf one of our laree public schoohs. I was taken from room to room by one of the teachers, who was intercsted in explaining to me the feize
of study in the different grades. We arrived at last at tho bizeof study in the different grades. We arrived at last at tho $b \mathbf{z a}$ eat their lunches. In the adjoining basement the boys of the male
department had been lot loose, and could be heard shouting at the top of the ir coices as they engaged in various games.
Being an earnest advocate of plain, wholesome living, tho contents of the many lunch-baskets open before me shocked and surprised me. How can parents be so indifferent to the welfare of their chldren as top provide for them a daily diet of pichles, rich cake, pie, and preserves? How can children bo expected to be healthy and to have clear, vigorous intellects, on such a diet? Not $\mathfrak{a}$ basket was withunt is pie, and mince-pie, --the worst of all,--seemed to be the favorite. Every baskot had a goodly share of cake, too; and some held cracked nuts. Big, green cucumber pickles and limes were devoured with avidity; and some of the girls had in httle tin baking-powder cans chow-chow, loaded with mustard. Instead of sandwiches of cold meat or him, the bread was spread with sugar, prescrves, honoy, or molasses. Fuw baskets contained the healthiest of all food -fruit. I suppese these girls, ignorant of the first laws of health, would sincerely pity any companion whose lunch-basket contained only a ham-sandwich and an apple. They appeared to vie with eacin other in producing the richest food from their store, and several who had brought ciandy were looked upon with curions oyes. One basket contained only a rich cream-puff and a packle. Think of it:
It is universally conceded, I believe, that rich food makes the brain sluysish. That, in order to make a brilliant rewod as a writer or a philusopher, a man or woman must forbear to tickle tho palate with daintios. How can parents expect good school reports, or taachers look for intelligeat and rapid progress in studies. When the youns minds are nomished to such an alarming degree on indigestible food?
During the afternoon two of the grls in the room of my friend were excused from school on account of he dache. No wonder they had headache: They may expect to have it all the rest of their lives unless they learn to enjoy simple, nutritious food. Many of the girls boro testimony to the pickles, pie, and rice cake thoy ato, in ther pale cheens and heavy cyes.
As I left the school-house I saw an old man with only ono arn, standing near the fence with an umbrella over him. A large tray was suypended from his shoulder by a strap. On the tray was a motley e llection of lard-soaked doughnuts, partially decayed apples, fruit-cake, and crached nuts. Ntepping up to lim, I asked him if he found much custom for his wares. "Lor, yes'm," he answored. "I genly sello out every nown-time, and has to go back home for a fresh lot beforeschool lets out." "Do the chilhtren buy of you after school, as well as at noom"' I asked. "Thoy buys a deal," he answered., "They gots hungry a-roing home, an' wants suthin' to chaw on." "And have poor apputites for their dinners in conseyuence, " was my mental conclusion, as I walked away.
Just below the schosh-house was a small store kept ly an ohd woman. The stock consisted of candy and cake, pop-corn balls, and nuts. Her trate, I understand, was entirely contined to the children of the public school.
Thoro is, evidently, tow little atcention piven in the home to this matter of lunches. What Mary or John likes, and not what is best for them to e.at, gows into the basket. They are fond of pio and cake, as are most children, - and pie and cake go into the basket without any regard whatever to a probable headache or a possible attack of indyestion. And yet it is an easy matter to get up a healthy and appetizing lunch without secourse to injurious dainties. We have now-i-diys the most delicious potted meats, turkey. chicken, ham, and tongue, which can be bought at a very reass nable price when we consider the fact that they are so condensed that a little of them goes a long way. A couplo of sandwiches, spread with any one of these meats, an apple, or any other fruit in season, is sutficient to satisfy any child whose tasto has not been perverted beyond repair.
I was once st the house of a friend who considered hersulf a great economist. She allowed nothing to be wasted. The odds and ends were looked after with unfultering vigilance, and everything turned to account in one way or another. But one day she failed in the baking of a fruit-ake. It came from the overt heavy as lead, and would in most households lave gone directly into the swill-pail. Not so here. "This is too bad!" I heard her say to her eldest daughter. "It's a shame to have such grod matorials ruined. But nerov mind; it shan't be wasted. Ill give it to the children for lunch. They'll never know the difference." And into the lunch-basket it went, daiiy, I suppose, until the last crumb was disposed of, dealing headache and indigestio. right and left. In my opinion it had far better havo been "was, -A""-New England Journal of Education.

## ORAL LANGUAGE LESSONS.

## 

## 1. Kind.

1 Iucidental. Theso should form a part of every lesson mand the puphls have an oppurtumty to speak. Thear chef function is the correct orrors of all kinds.
2. Specia!. These shonld take the place of what are commenly called grummar lessons until the pupila are about ready to enter the Fourth Book.

## II. Objocts

Oral language lessons should meludo constant and careful attention to the following:-

1. The prsition of the puril.
(a) He should stand on both feet.
(b) Ho should stand in the aisle.
(r) Hes heai should be hele! up, and has shoulders back.
(d) Hes hands should be at his sides, wathout touching the desks.
(e) His eyes should be directed to the person addressed.
2. The pupils should speak in complete sentences. In elliptical questioning, or when the answer is merely a name or a date. this rule need not be followed. Indeod whenever the pumi's answor consists merely of a ropetition of the rhef part of the teacher's question with a name or a fact inserted to complete it, the development of the language power of the pupil is extremely suall.
3. Grammatical accuracs.
4. Pronumeintion, including clear articalation, espectally of werds that must neeessarily bo usel very fre-uently, and are almost univorsally miseronounced, such as, was, and, do, you, just, can, because, such, have, the ending ing, dec.
5. Pitch and volume of voice.
6. Rate of utterance, including pausing.
7. Habits of inflection, emphasis, $\mathbb{E c}$.
8. Spelling of difficult words, as a preparation for written lessons.

## III. Goneral Suggestions.

1. The teacher should be a correct model.
2. Language lessons should consist of practice not ruice.

If pupuls can be led to talk freely in expressing their opinions or in repeating what they remember in them own language the chef diticulty will be overcome. Nothing will remain but the conrectoon of errors. The erroneous labilities of the individual pupils can only be found out by freo convorsation on the part ri the pupils themselves.
3. Pupils should bo trained to notice incorrect expressions and errors in pronunciation. This is the most essential step in teaching them to avoid them.
4. The pupnis should make the corrections themselves, in both incidental and regular lessons. They will bo delighted with the pravilege of making corrections or inprovenents in expressions used and what one omits will be suggested by another.
Directly, this exerese acquaints the pupil with the common errors of speech, refines his stylo and improves his vocabulary; indirectly, it promotes readiness in speaking and facility in expression.
ס. In giving iormal lessons on language the teacher should direct the attention of his class to the use of one class of words, or to ono construction at a time. Each clase should havo its own gpecific
work toll. It will not do to allow hap-hazard work in a regular language lesson. The toacher in his lesson phan must havo a detinite am, for oxmplo, the correct use of the pronouns, and ho mast also arrange has plan of teachme, the lessen sse as to securo the use of the promans in orery coucenvable way. The must not be left to chance, but should be the necessary onterme of a series of pro-arranged illustratcons and skiliul guestoms
 sotne phan similar the the fowne moy ber asel. Each teacher wall of course use as many phans ay prisuble, bat each plan should make at essenthal to use a pronom in some part of the sentence. The other parts of speech may be pealt wath in a stmiar way.
"Mary and Jane, you will each take a pencal in your hand."
"Mary, tell me what you have."
"I have a penctl."
"Jane tell me what you ard Mary have."
"We have pencils."
"Tell me another way Mary."
"Jane and $I$ have edeha pencil."
"Tell the same fact to Mary herseli, Jane. '
"You and I hate each a pencal."
"What has fane, Mary:"
"she haw a pencil."
"Tell me what Mary and Jano have, John. "
"They have pencils."
"Whose pencil have you, Mary ?"
"This is my penca!."
"Say the -ame thing in another way."
"This pencil is mine."
"Tell Mary whose pench she has in her hand, Jane."
"That is your pencil, Mirs."
"Another way."
"That pencil is yours, Mary."
"Spoak to June about both pencils, Mary, and tell her who orns them."
"These pencils ars ours."
"Another way."
"These are our pencils."
"James, tell me whose pencils those are."
"Those are their pencils."
"Arot?er way."
"Those pencls are theirs."
"Samuel, tell Mary and Jane whose pencils they have."
"Those are your pencils."
"What are you doing with the pencil, Mary?"
"I hold it in my hand."
"「aku both, Jane, and tell me."
"I hold them in my hand."
\&c., \&u., \&e.
Formerly it was regardod as sufficient to colapel the pupile to recite by rote: -

| Ningular. | Plural. |
| :--- | :--- |
| Fom. i | Nom. we |
| Prus. my or mine | Poss. our or ours. |
| Obj. me. | Ohj. us. |

With the corresponding tables for the second and third persons. What a developing exercose this $u$ a 3 und I fear is' What is needed is practice instead of meles and lists.
Oi courso in the arerago class, the replies would not be at all accurabe at first. "Jane and me," ", $n$ ' ari you." rould oicur frequently. Practice by the pupll who blunderod, is tho only way of correcting such mistakes.

## ffriguments.

The complaint is often made that teachers are treated disrespectfully by socicty and by governnonts. Thero is often too much truth in the charge. It is not very creditable to those who have left the professon of teachang fur some more lucrative not highor; position, that they are frequently most outspoken in their expressions of contempt for the position which they used as a temporary means fur ubtaining a livelihuod. Regarding the sehoul as a mere source of income it need not be a matter of surprise that they should have a contempt for the teaching they did thomselves. Probably the public may have shared their fee'ings. President Arthur was a teacher in early life and when the State and City Superintendents of schools called on han recently durmg ther annual convertion an Washington, they expected a courteous if not a sympathetic receptirn. They were griovously disappointed, however, according to the descriptiun giren by the editur of the Schuol Bulletin, who was present. The President was stal and furmal, and did not seem to remember that ho had ever taught in a district school. After delivering a brief response to their address, he turned to liis clerk and proceeded with his business befure his guests had left the room. One of the Superintendents in respunse tu the general remark: "He seems to care little for the schnols," sand "Ho can not think less of me than I do of him."
"The schools have ruined my child." So say many thoughtless parents, led by equaliy thuughtless medical men. So said a sorrow. ing father recently. "My daughter is completely paralyzed," said he; "she cannot speak plainly; she cannot raise her hand, and I blame the school for it. So does the doctor." Knowing that she had been entirely excused from home work for about two vears, that she was 14 y ears of age and yet unly in the junior third book. I knew that her schoul work could nut pussilly hate injured any healthy child of her years. Enquiry showed clearly that sho was born with a nervous system prone to disease, that she had been subject to St. Vitus' dance, that an fact she should never have been sent to a public schuol atall. Nutwithstanding these facts the intelligent medical man instead of prescribing upen air exercise and proper food, allow I the chuld to be sent to schuol, raised no objections when the piano was bought and the poor girl set "topractise," lookod helplessly on and drew his fees as famly physician while the weak system gradually became enfeebled, and when it finally gave way uring to his neglect or ignurance, he with questionable honesty tried to blame the school. There are children who should not be allowed to go to school. She was undoubtedly one of them. It was a great wrung to allow her to go, and the family physician was responsible for the wrung. He was alsu guilty of deception and injustice when the tred to shoulder his own responsibility on the school.

A very good plan is adopted in some places to secure the reading of useful bouks by puphls. A blank book is kent in each class in which a page is allotted to cach pupil, and a record is entered by the puphls themselves monthly of the books they have read during the month, with tine names of the authors. This leads to systematic reading by the pupils, and gives the teacher an opportunity to darect them in furmang their reading tastes. Teachers have no other way $m$ wheh they wan mure effectively influence tha charactory of therr pupils in a right direction. Try the experiment.

## Qurestion 8 gratuer.

'W. H. H.-(1.) The "Privy Council" in Canada is mado up of the Ministers or Heads of Dopartments who aro chosen to adviso the Govornor-Genoral with respect to public affairs. Theso Ministers, taken collectively, are usually desiguated the "Cabinot," and the terms "Cabinet" and "Privy Cuuncil" are thereforo in Canada popularly regarded as synonymous. In England they aro not so. Sor there the Cabinet is virtually a committee of the Privy Counch, made up of such members of the latter body as are in accord with cach uther on affiars of stato. It is a uestion of constitutional law about which thero may be differcaces of opinion, whethor in Canada, as in Englanc, all Cabinet MLinisters are really mombers of the Privy Council or not, as the British North America Act says nothang on tho point. In both countries members of tho Cabmet are collectively reapoissble to Parhament for all the executive acts of the Guvormment, the Queen in the one cuuntry and the Governor-General in the other being entirely withoui responsibility to the people. (2.) The Australian colonies are not united together in one confederation as tho Frovinces of Canada are. Each has its uwn government and ats uwn capital city. Now Zealand comprises mure than une island but it is all under one Government und one Legisiature. (3.) Opinions vary as to whether the correct mode of expression is "three times five is fifteen" or "three times five are fifteen." The sticklers for formal grammar and munute passing will probably prefer the latter because the former is not parsible according to their ideas. Our prererenco is for the first form and assuming it to Lo good Enshash, the subject "three-fimes-five" should bo parsed as ono word. [Your fourth question is one of a numerous class to which we do not feel justified in giving up our space. Tho object of this depart. mont boing to aid the teacher in his work by giving him information which he requires and which many teachers can procure with great difficulty, if at all, uwing to the want oi goud bouks of reference.]
E. W.-(1) The correct pronunciation of the word "Manitoba" must, like that of other names of places, be finally determined by local usage. There can be no doubt that as pronounced by the Indians and early English speaking settlers of the Red River Valley the stress was divided between the second and fuurth syllables, thus. Ma-ait-u-ba, and it is to be regretted that this pronunci, tion was not more strictly adhered to. The general tendency now, howover, is to pronounce it Ma-ni-to -ba, and unless rhe idvocates of the more cuphonious and otherwise desirable Indian pronuncmation take steps to check the process their favourite form will specuily die wut. (2) The proper spolling of the name of the territory adjacent to Ontario, according to the Act creating it, is "Keewatin" In the session of 1878 the Hon. Divid Mills, then Minister of the Interior, introduced into a bill relating to that region the nore correct spelling, "Keowaydin," but the bill was naser passed and the old spelling remains as a mattor of statutory enactment. The correct sound of "a" in Keevatin is ascertamable from the fact that the form "Keewaydin" gives a much better idea of the Indian pronunciation of the word than "Keevatm" dees. The meanug and origin of the name "Keewaydin' are indicated in the concluding lines of Longfellow's "Hiawathia," which are as follows :-

Thus departed Hiswatha,
Hiarratha the Beloved,
In tho glory of tho sunset,
In the purple inists of evening,
To the regions of the home-nind,
of the northirest wind, Kecwaydin,
To the Islands of the Blessed,
To the kiupdoun of pondinah.
To the lanil of the Iterealter!

## flotes and flews.

## .ONTARIO.

The first annual convocation in connection with the Toronto Baptist College was held on the 2nd of May. This being the first session of the institution there were only three graduates w.1 of whom delivered thoughtrul addresses on the occasion. Their rames are Duncan D. McArihur, of Dominionville, James McEwan, of Brantford, and William T. Tapscott, of Toronto. The attendance of students has during the session been fair for a commencement year. The Rev. Dr. Castle, President of the Colloge, prosided and
deliverod on appropriato address. Tho collego building is kaown as MoMaster Hall, tho building fund having been entiroly donated by the Hon. Win. McMaster of Teronto. The college course is nitirely theological.
A tearler in the County of Lemnox, writes to explain how it is that teachers got such low salaries. He snys:- "Tho reason is that toachers underbid each other on necoumt of sonne advantage, real or supposed, possessed by one school over nnother. If teachers will undorbid each other, of course no advance in anlarios can reasonably be expected, and the result is that the best teachere do not always get the best schools, becauso giod tenchers will not reduce their salnrics. If teachers would form a union sinilar to the Trades Union, they might control in a greater degree thoir owa salaries."
The following subjerts were for discussion at tho teachers' convention at Port Hupe, June 2nd and 3rd. - How may the tendency to vicious literaturo bo best checked? Would teachers' unions bo bencticial to tho proficssion? What part of tho scheol exoreise should tend to tho cultivation of memory? What is the best plan to provent tardiness? T'u what oxtent is the teachrr responsible for the moral training of his pupils? Would you prevent whispering in tho schonl roout; sad if so, how? What are pryper incentives to study? How would you check truancy? Should fractions be taught before reduction and tho compound rules? Aro sehool exlibitions beneficial? Should spelling be taught orally? How can we make indolent pupils study? By what means can we induce parents to take greater interest in sclool work? How often should written examinations bo held? How wauld you assist pupils in preparing their reading lessons in the differont classes? To what extent would you ask pupils to correct each others' mistakes? Whon and how would you begin the teaching of problems in arithmetic to young pupils? How can you prevent children counting on their fingers?
It is said that Mr. Miller, a Huron County mapector of schwols and a candidate for the inspectorship of prisons, is to be the new bursar of the asylum at Orillia. The pay and the emoluments of the later ofice aro said to be superior to that of the inspectorship. -Collingwood Messenyer.
There is to bo a convention of tho Business Educators of America held at Cincinnati, Ohio, on the Gth of June, and Mr. J. W. Juhnson of Ontariu Business College, Belleville, is vit the prugramme as one of tho speakers.--Belloville Ontario.
The following address was presented to H. J. Galton B. A., Head Master Branpton High School, with a handsome clock and two beautiful accompanying ornaments, on the nccasion cf his departure from Brampton last Easter:-"To J. H. Galton, Esq., B. A., Head Master Brimp ion High School, Dear Sir, We the teachers and pupils of tho Brampton High School cannot pernit yon to sever your connection with us, without expressing the high respect and esteen in which you aro held by us, and our sincere regret at your departure. Wh desire also to mike known our high appreciatiun of your patience and kindness in dealing with our saults, your untiring exertions for our advancement, and the ability youl have displayed not only in directmy our studics preparatory to exanima-
tions, but :ilso in giving us such instruction as will more materially tions, bur allso in giving us such instruction as will more materially
fit ns for tho active dutics of life. We feel confiderit that the hicit fit ns for the active duties of life. We feel confident that the hight
position our schnol now occupies amongst those of the Province, is position our school now occupies amongst those of the Provinee, is ing its interests. As a slight token of our afectionate regard, pieaso accopt the accoupanying clock, which. w. ctist, may serve to call up pleasant recollections. With our present, reccive, dears Sir, our warmest wishes for tho heallh nad prosperity of yourself and Mrs. Galton, and permit us to express an earnest hopo that, in your now sphere of labor, you may meet with that success which your merits so well deserve. Assuring you that you rill long be held in pleasant remembrance wo beg to subscribe ourselves yours most affectionately." Mr Gulton made a touching and appropriate reply.
By special arrangement with the Education Department, the Entrance and Intermediate Examinations are to be held in Pickering Colleye. This will be a great convenience to its students.
Mr. G. Kimmerly, nssistant tcacher in the high school, Naphance, has resigned his position and gune to Turonto, having received a situation in the office of Mr. Kerr, manager of the Northern and Northwestem Railway." Mr. Kimmerly was an excellent teacher, and the remark of the head unastor, that he was "heartily sorry to lose his services" says a great deal. The vacancy caused by his resignation has been temporarily filled by Mr. Fulford Ruttan.

Tho 'loronto Univorsity Local Examinations for Women will ngain bo hold in Pickering College. This year tho number of candidaies is cleven.
Mr. M. J. Glnss, who is ahoutresigning his position as head mastor of the London West public school to accept tho head mastorship of tho Waterloo North school in the chty, was recently presented by tio pupils of his schoul with a very handsome album and music box combined. The presentation was mado by Miss May Lackey, Master Willian Wattam readiny a kndly-worded address, signed by Georginn Calver, Vesta Ross, Mary Sime and Nellio Hagary. The album was purchased from Jas. I. Anderson i\& Co.
Mr. RobertGraham, of the Arvn public school was presented by his pupils with a very handsomo S25 gold ring. Mr. Graham will take the head mastorship of the London West public selools shortly. During his stay at Arva he has made himself immensely popular. Miss K. M Marshall was also presented by the scholars in her room witha neat little autograph album.
The May number of the Canada School Journal is excellent in the tone and varicty of ats articles. The professional department is very full, and cannut fail to be ednfyng to all th se for whom such problens and hints are specially designed. -Bowmanville Observer.

Mr. C. F. MeGillivray, B.A., late assistant master in the Whitby Collegiate Institute, has entered on the duties of Head Master of Fergus Figh Schonl, salary $\$ 800$. Mr. J. McCollum, B. A. is his successor.
Another primary department under the chargo of Miss Mitchell, has been opened in the Model School, Whitby. There are now ten teachors cmplnyed in the Public Schools of the town. The average attendance during Anril was vory low, owing to the prevalence of various diseases in a nild form.
The school trustees of Bellevillo hatve decided to abolish the Model School in comnection with the Central Schoul. It is probable that a Model Schonl for the county may be ro-established in Trenton.

William Oliver, B.A., Buwmanvallo, has been appointed to the Principalshi, of the Brantford Collegiate Institute. There were thirteen apphcations for the position, embracing qualifications of a very high order. It would have been difficult for the Board to make a butter selection. Mr. Ohver received his proliminary education at the Wuodstuck High School. At a meeting of the Board of Education, Bowmanville, it was resolved that the chairman (Mr Couch), Col. Cubitt and Mr Higginbotham, be a committee to get uy $\Omega$ suitable document ur testimonial to present to Mr . Oliver, in wiference to the officient and faithful discharge of his official and public duties in commection with the school.
Mr. D. W. B. McKay, Eend Master of St. George's School, Lundon, is about to remove to Winnipeg. His lato pupils presented him with a piece of silverware.
Tho East Middlesex and some other teachers have engaged a local teacher to give them a course of lessons; with the view of enabling them to teach music by the Tonic Sol-fa method. The proliminary lesson was given last Saturdny. It is time the teachers were awakening to the importance of singing in their schools, and the fact that it ought to bo one of the regularly taught branches, and tanglat by the regular tenchers. Trustees who realize the advantages of vocal music in their schools could secure it by advertising for teachers competent to teach singing. It is said on good authority that if all the teachers understood music as presented by the Tonic Sol-fa notation, there would be only a very small percentage of them who could not teach singing in thei- achools.
The Stipling School Board and the Inspector have fallen out over the retention on the part of the former of a teacher without the proper qualifications. One of the menbers of the Board became so angry at what he chose to regard as undue officiousness that he mored a resolution asking the County Council to remove the offending official. The resolution had no seconder.-Toronto Mail.
The London (West) School Board, in accepting the resignation of their Head Master with regret, a nomber said it would be a lesson to the board in future, however, to give such remuneration to a first-chass teacher as would induce him to ren in with them. It would be well if school boards generally would laysuch a lessun to heurt.

A movement is on foot in Brantford, led by Dr. Harris, an indefatigable progressive worker on the School Board, to give the teachers of tho Public Schools tho benefit of a course of lessons in reading and elocution. This is a step in the right direction.

The Bowmanvillo Board of Education havo appointed a committeo to procure $\Omega$ bust of the late Dr. Ryerson for the High School.

Mr. A. Carruthors has resigned his position as Classical Mastor, Lindsay High School, as he intends giving up the profession of teaching.
The Hamilton Times, whilo reviewing tho state of education in the Collegnate Institute of that city, says:- It has come to our knowledgo that students of Hamilon Collegiate Institute, who could matriculate at the University, or pass the intermediate examination, could not writo a legiblo paye, cuuld not narate a sample incident without mistakes in spelling and syntax.

At tho rocont, meoting of the London Teachers' Association Miss Victoria Drury read an essay on "Regularity and Punctuality of Attendance," holdme forth the idea that the marks system failed from the fact that those who needed them lenst as a stimulus wero the very ones who generally obtained the most. Again, the note system did not meet the case, from the fact that many, very many, forged notes to suit themselves, and thus freed themselves from the censuro of the teacher.
Mr. R. M. Graham has been appointed head master of London (West) public school, in place of Mr. M. J. ulass who has ressgued.

Inspector Girardot, of Essex County, intends to present again this year tro silver medals to the candidates, one Fronch and one English, of the north riding who will obtain the highest numbers of marks at the next examination. The candidates must not be over twenty-four years of age, and the medals will be given at the convention of teachers to be held next Uetober.
In Orangeville high school the attendince is rapidly increasmg, and good general progress is reported. There aro over 100 pupils now attending.
The Corporation of Trinity College, Toronto, at a recent meeting resolved to modify the regulations respecting divinity degrees with a view to enabling graduates in arts to take the degree of B.D. on two special examinations, $t i$ a latter of which may be confined to one optional group of subjects out of five. The subjects are similarly arranged for the D.D. deg"ee which may be taken by a B.D. of five years'standing. It is huped m thas way to tram up a number of clergy who in addition to having a somad general knowledge will be thoroughly proticient in some ono branch of theological study.

## NOVA SCOTIA.

The meeting of the Teachers' Assuciation for Inspectoral District No. 4, (Counties oi Annapolis and Digby), hold at Annapolis Royal on the 27 th and 28 th of April, was a very interesting one. The Association was organized with the fullowing staff of officers: Pressdent, Inspector MIr ${ }^{2} \mathrm{se}$; Vice-President, S C. Shafner, A.M. ; SecTreas., J. M. Langley, A. M. ; Executive Comnittee, Messrs. A. D. Brown, N. E. Butler, R. W. Furd, Misses Latiches snd Bonyman. The following programme of subjects was provided by the Executive Committee: "Needed Reforms in our Public Schuols," Mr. J. A Balcom; "Best Methods of Teaching Geography," Mr. James P. Mowhan; "The Successful Teacher," Mr. A. E. Read; "Improved Methods of Teaching since 1848," Mr. P. Whitman; "The Teacher's Opportunitics," Mr. N. E. Butler; "Oral Lessons in Analysis," Mr. A. D. Brown; "Process of Subtraction," Miss S. Bonyman. The subjects above indicated were treated in a broad and thorough manner, and most of them gave riso to animated discussions. Prof. J. B. Hall, Ph. D. of the Provincial Normal School was present during the exercises of the tirst day and materially contributed to their interest. The public meeting held under the auspices of the Association though not largely attended was a spirited one. Addresses were delivered by the Superintendent of Education, Rev. Mr. Ritchie, Rector of the parish, Dr. Hall, and otloers.

## MANITOBA.

At a meoting of the Board of Protestint school trustees for the city of Wimnipeg held recentiy, tho following rules relating to salaries of teachers in the omployment of the hoard wese introduced by Mr. W F. Luxton, charnan of the schoul management and unanimously adopted, viz:-
Male Teachers.- Teachers of Standaris IX. and X.-First year of scrvice, $\$ 1,000$; second ycan, $\$ 1,160$; ammeal salary after second year, $\$ 1,200$. Teachers of Standard VIII.-First year of ser vice, $\$ 800$; sccond year, $\$ 300$; aunnal salary after second year, $\$ 1,030$. Tcachers of Standards V., VI. and ViI.-First year of service Sivo; second year, \$7Ju; anaual salary after second year, $\$ 800$. Teachors of Standards III. and IV.-First ycar of service, $\$ 650$; socond yoar, $\$ 700$; annual alary after second year, $\$ 750$.

Female Tbachers.- T'eachers of Standards IX. and X.-First year f service, S650; secoml year, $\$ 700$; amual salary after second year, S750. Teachers of Standard III. -First year of service, \$600; second year, 8050 ; annual salariy after socond year, $\$ 700$. Xeachersof Standards V., VI. and VII.-First year of service, $\$ 550$; second year, $\$ 000$; annual salary after eccond year, \$050. Teachers of Standard IV.--First year of service, S 150 ; second yoar, $\$ 500$; nmunl salary after second year, \$j50. Teachers of Staudards I., II. and III. -First ycar of ser ice, S400; second year, \$150; namul salary after sccond year, \$500. Tho number of years' sorvice, in cases of promotion, shall bo determined by the tume cach tereher has been in the employment of tho board. Tho teachers at present in the employment of the board shall receive the maximum salr,ries above indicated fom tho logiming of the present year and hercafter.
Certificates. - No teacher shall ho hereafter considered eligible for appointment to a position in the schools whose attainments are not equal to these indicated by a second-class provincial certificate. No male teacher shall be considered eligible for appointment or promotion to the clargo of any class from Standaral V. upward, who does not hold a firstclass provincial certificate.

Promotios.-Promotion shall hereafter be made ou the following conlitions: 1. That the emplidato's past enficinicy und present fituess for the position be favorably reported upon by the inspector ; 2. that the comditions regarling certificates bo fulfilled; and 3. that seuiority of servico shall be conaidered a prior claim, tho other two conditions being fulfilled.

The Local Legislature now in session has before it a Bill to give effect to the resolntions of the Protestant section of tho Board of Education relating to the establishment of a Normal School Department in connection with the city schools.

The Uuiversity Exmminers ato ongaged in the preparation of questions for the examinations which commence on the last Monday in May. There are n number of candidates.
The Board of school trustecs, Portage la Prairic, have called for tenders for the erection of their now central schoot, which promises to be one of the best buildings of the kind in the Province.

## DALHOUSIE COLLEGE, HALIFAX.-CLOSLIG FIXERCISES.

The closing exercises of the annual session of $D_{\text {alh }}$ ousio College were held in the Legislative Assembly Room, Halifax, on tho 27 th of April. The spacious hall was crowded with a brilhant audionco. The very Rov. Principal Ross, D.D., presided. The Principal delivered an introductory address in which he recounted the history of the session, which had beon an exceodingly satisfactory one. Ho alluded in terms of grateful appreciation to the bencfactions of Mr. Munro, which, handsome as they havo been, were not yet, ho believed, at an ond. Tho following is the list of Unversity prizes.
Classics-Fourth year-Trueman, J. s. Third year-Bell. Second year-McLeod, J. P. First year (1) Gammel, (2) Aton aud J. M. McLeorl.
Mathennatics-Second year-Murray. First year-Lillio Calkin.
Astronomy and Optics-Campbell, G. M.
Plysics-MacGregor.
Mrthematical Physics-Reid.
Ethics-Carson.
Metaphysics-Taylor, W. P.
Logic-McLeod, J. P.
Rletoric-McLeod, J. M.
Chemistry - (Inorganic) AicLeod, J. P. ; Orgasic (second year), Smith. Histary - Crowe.
Sirench-Fourth year-Mollish. Third year-Smith.
Geology-Cameron.
Botany-Snith.
Hebrew-Carson.
The following degrces were conferred :-
Bacheior of Arls vilh Honors.-Grorge Murras Campbell, Truo; James Starr Trueman, Carleton, N.B.
Ordinary Denree of Bachelor of Arls.-Georgo Stephen Carson, Sussex, N.B. ; Tinson Fulton Davidson, Halifax ; William Ritchio Fraser, dit. Thom, Piciou; Janes Harris Knowles, Milton; Robt. Landells, Halifax, James Walter McKenzie, Strathalyn.
P. E. I.-Humphrey Mollish, Halifax ; Georgo Gaildic Pattersou, New Ghasgow; Elgar James Thorey, Guysborough; Thomas Stewart, Whycocomagh.
Ordina;'y De:gree of Bachelor of Science.-Alex. Camoron, Newton, Guysborough.
Tho valedhetory uration was pronounced bs Mr. H. Mellish of the graluating class. Addresses in response to the call of the

Principal wero delivered by His Honor, Liout.-Govornor Archibald, Mr. W. J. Stairs, and Dr. Allisun, Superintendent of Education. The Herald gives the following abstract of the remarks of the last named gentleman :-
Aftor a humorous introluction ho disenssed tho proposition that "knowlodge is power," ill relation to collegiato ollucation, holiling that much of tho literary lumber stored away in tho garret of the inemory was powerless as anything well coull be. Ho clamed that th alone was true knowledgo by whose acquisition power goneratel-po of to do what otherwise could not be done. To this test all our school of learning and colleges must submit. In your graduntes exhibit excentivo capacity of intollect, power to use their mental facalties with a readiness and vigor which testify to the training which they lave received? He used the term power inno narrow physical or mechnnicnl sense. Thought is really the highest inind of action. The age, however, was past which was satisfied to concorvo of knowledge as simply a trcasure stored away, to be irawn forth from its receptaclu for onjoyment merely from time to time os a cow chews her end, or a clergyman with quiet conscience smokes his pipe. Our ago sets value chielly on that knowledge which is in relation to the activitics of man's naturo, inspiring, directing, and controlling them. He vinducated the universitics of tho Middle Ages from charges sometimes brought against them. The best of them in thoir brightest days were not mere sehools of philesophy and theology, but great scats of learning, in thorongh sympathy with thom age, and taching ambitious young men whatover thoy requred to leam to fit them for consvicuous stations. He considered at some lengtly the Arts of our colleges, deeming that they furnish an admirable seheme of studics for generic mental culture when naturally and logically pursued. He deplored the fact that 80 many young inon entered college in an unprepared state and therefore failed to derivo real benefit from tho studies pursued. Ho was glad that tho question of higher education was being discussed among us. It was not for him to predict tho issue. On so important a question it was desirablo that public opinion should be well developed bofore educational roform should bo practicallyattempted. Dissenting from the criticism of Mr. Blalse, he thought Mr. Gladstone was quite right in considering it jmportant to know whether a given question was or was not "within tho range of practical politics." The jeriod of discussion and formativa opinion naturally precedes that of act on. In conclusion, Dr. Allison exhorted the young men graduating to reniember that they now belonged to the republic of letters and to tisko Ne quid republica detrimenti caperet as thoir motto. Lot them look at the future with hope, faith, and courage.

## THE NEW ROYAL ACADEMY.

The Marquis of Lorne signalized the earlier part of his regime here by establishing a C.madian Academy of Arts and he has just made an attompt to signalize the latter part of it by establishing a Royal Academy of Literature and Scienco. It remains to be seen yet whether the Acadomy of Art will talio root in Canadian soil, fushioned, as it is, on the lines of an ancient institution in England; but it is safe to predict that the now Royal Academy will be a conspicuous failure. Such organizations cannot be called successfully into boing by tho fiat of any one. There must bo a field and a felt want for them or, they will die of inanition. We have in this country several learned associations of a voluntary character but they have each a raison d'etre and the now Acadeny has nono.
The first meeting took place at Ottiwn a few days ago when the various sections met separately for organization, reading papers, discussions, de. The sections are four in number as follows:-(1) French literaturo; (2) English literaturo; (3) Mathematical, Physical, and Chemical sicience; and (4) Biological Science. The proceedings of the goneral meeting commenced with an address from His Excellency which was followed by papers from Sheriff Chaveau of Montreal and Dr. Dawson of Mctill College. The following gentlemen were clected oficers of the Society for the current year:-
President, J. W. Dawson, C.M.G., LL.D., F.R.S.; Vicc-President, Hon. P. J. O. Chanveau, LL.D.; Hon. Secretary, J. G. Bourinot, F.R.S.; Hon. Treasurer, Dr. Grant of Uttawa.
The next mecting of the Roynal Society will bo hodd in May 1883.
In the Biological section tho following officers have been elected: President, Dr. Selwyn; Vicc-Preeident, Dr. Lawson; Secretary, J. F. Whiteaves.

In the Physicar Scienco section:-President, Dr. Sterry Hunt; Vice-President, Mr. Carpmael of Toronto Observatory; Secretary, Prof. Cherriman.
In the French section:-President J. M. Lemoine ; Vice-President, Mr. Faucher de St Maurice; Secretary, Benjamin Sulte.
In the English section:-President, Dr. Wilson of Toronto; Vice-President, Coldwin Smith, M.A.; Secretary, Geo. Stewart Jr.

## UNIVERSITY OF McGILL COLLEGE.

Since the last issue of the School Journal the procedings in connection with tho close of thio recent session of this institution havo taken place. Hon. Mr. Justice MroKay of Montreal, presided on theycension and thoro wasalarge attendanco of thealumai. Principal Dawson, LLL.D., C.M.G., in lis report of the session, referred to the number of degrees in the course granted at the close of this session, 75 in all, and to tho attendance of students, which had been 374, indopendently of students of affilinted colleges. Tho learned principal referced to the approaching completion of the Peter Redpath musoum, to be oponed on the occasion of the visit of the American Association for the Advancement of Science, in August. This would give the University for tho first time satisfactory accommodation ard means of study for its classes in natural scienre. It would also give the Thiversity the means of ading tho higher education of women more eflectually. A less agrecable matter was tho financial depression from which the University had been suffering owing to the diminution in the income from investments. This had been met by retrenchnonts. A public appeal for assistance had so far resulted in an addition to Mr. W. U. McDonnld's munificent gift for scholarships, in asum of about $\$ 20,000$ added to the ondowment fund, and annual subscriptions to the amount of about $\$ 0,000$. The University, howover, could not under present circumstances tako its proper position without an addition of at least $\$ 100,000$ to its endowments. He asked that this should be given within this, tho fiftieth year of the University, so that it might commence its second half century with renowed lifo and vigor: Ho closed with a few words of congratulation and advice to the new graduates and students.

## ONTARIO SOCIETY OF ARTISTS.

The amnual oxhibition of the Ontario Society of Artists, held during the month of May, was this year fully up to the average in all the departments. This Socicty has, sinco its inauguration scme sisteen o- seventeen years ago, done an excollent work in this country. In reality it embraces in its membership ominent artists all over the Dominion and ought to have been a Dominion society. Had it assumed to necupy the whole field in name as well as in reality the Canadian Academy of Arts would probably never havo been organized; and, on the other hand, had the Ontario Society not paved the way the other would not have been as yet a possibility.
All teacher who happen to be in a position to visit Toronto during the exhilition period would do well to call each year and see it. It is difficult to estimate the amount of art edugation which might in this way be diffused, for a growing acquaintance with works of art is in itself an important means of educating the observer. The School of Design, which has hitherio been carried on under the auspices of the Society is to be transferred to tho Department of Education. This institution has not yet been long enough in existence to produce any marked results, but good work has been done in it for some years past, and the training thus imparted cannot fail to have a decided effect on futuro exhibitions as woll as on the application of decorative art to manufactures.

## VICTORIA UNIVEISSITY-COMMENCEMENT WEEK.

During the third week of May the annual commencement excrcises of the University of Victoria Collese came off with oven more than the usual celat at Cobourg. Theso exercises are always of a varied character, Commencement being at Victoria much more of is "red-letter" season than it is in any other college in tho Dominion. The inauguration of the proceedings took place on the ovening of Sunday the 14th of May, when the Rev. Dr. Stevenson of Montreal preached an eloguen:c bacca laureate sermon on "The Ideal in Life," and President Nelles gave the farowell address and counsel to the graduating class. It is needless to say that both offorts were of a high order of merit both intellectually and morally. On Monday aftornoon Dr. Stevenson delivered a puhlic lecturer on "John Milton" to a crowded audience in "Alumni Hall" and in the ovening the Literary Society gave in ths same place a varied intellectual and musical cntertainment. On Tuesday afternoon there was also ameeting of the "Theological Tnion" at which an able paper on "The Certainties of aleligion" was read by the Rev. J. A. Williams. D.D. On Wednerday afternoon the annual meeting of the Science

Association 1 jok place in Faraday H.ll under the clairmanship of A. 21. Fhillips, IB.D. The anmal lectum undat the auspues of the
 his subject "The Functious of the Brans. In the evenurg the au1.nal business meeting of the Ahama dosonation was hold an then hall. Amengot uther trameatewis it was icsolied t." petition the
 clect six represent ives to the Board in adition to those who now compose that boily. In the comse of the evening it was announced that Mr. Dennis iloote of Hamilton had subseriled \$20, 0. ) towards the endowment of a charr $m$ "Chemstry and Physics" and that with subscriptions alveady recciver for the " Ryerson Chair" this made a total of $840,0^{\prime} 10$. "The oflicers of the Alumm Assuciation for the current year are as follows:-James Mills, M. A., Presudent , James Allen, B.A., 1s' Vice-Presdent, A. M. Plullips, B.D., 2nd Vice-President ; H. Hongh, secretary-Treasurer In the evemus the ammal dinner of the Assuecation camo ofl in Victoria Hall and was a complete success.

## convocation.

On Thursday tuoh phace the event of the week, Cinnmencoment
 rival of tho gratmates and members of the Sunate ans areoted with
 wearing their various academic costumes: President, Dr. Nelles; Professors Wilson, Burwash, Revnar, Bain, Hamel, and Bell; Rer. Drs Dewart, Sutherland, Nim Kerr M1, I MI iritton, M. A , Jurlge Dean, Dr. Ggden, Rev $D$ G Sutheland, L L. B., B. D, Rer. J Phitr, M.A. Rev T. W. Jeffecy, Rar. W. Hawsfurl Lajier, L. L. B., J. Mills, Mr. A., II. H. ugh, M.A., D. C. McHemr, MI. A., Dr. Pursh. ., H. M.Lic, M.A., J. C. Fich, M.I.I., J. Vauce Graveley, May ur, Mr. Demais if...te, Ru. Da. Storeass.a. ditur prayer had becn oflered by Rus. T. W. Jenthy, Mr. Johan shotuon delivered the valedictury ahdicss chinsiata as has subject Thumas Carlyle" and scomagy withit a complete saceess. The ceremonay of conferring derrees was then proceeded with and thas was followed by the distribution of well merited homurs and revards amongrst the successful students After a brief address from Dr Ogden to the retiring graduates Dr N, lles referve in euburgitic terms t. the late Dr. Brouse one of the carliest graduates of the $T^{*}$ biversity and to the late Rev. Dr. Ryersun whin was ats fist President. Dr. Nelles thus concluded his admiablo address: "Ho congratulated the sister universities of Canadit on theirgrowing strength and efficiency and heartily re-cchoed the sentiment expiessed tho uthes day by Dr. Young of Toronto Ciniversity, that the country is the better for a varicty of culleges, ame the smmar expression of the Mimster of Education for Ontario as contained in his last report, in which he speaks of the denommatural colleses as testify ung to the peretrat ing influence of religion in var edaciational system, and to that freedom of action which will preserve to nur diflerent institutions an individuality unknown in the uniformity pre:alent in Frime and nut absent if Germany. The example of Britan amil the 「'nited States was aramst the system rif consolidation, and it womh he as unmeasonable to work $t$,ward such an ule:a in Cubath, as it would to to atterapt the amalyamation if Oxford and Cambridre an Euchand. or of Harsard, Yale, and Princtun, wh the Emted States. But
 ficuency, he was alsu obliged to condele with theme oh thear comamon complamat of mablequate recources - A complant that cuaca eves
 year, and may therefore be sthll more reasomably expected from the less richly endowed denommational colleses. But thes thanactal distress will ere ling pass away, as it has in the colleges of New Eng!and. The Wesloyan Cniversity of Middletrown, wheh is only some 50 years old, and has had a hastory sury similar to that of Vic toria, has property to day of the value if $\$ 1,400,000$ and an incume of $\$ 900,000$. Thise fats shond encurare the firends of Victorat, more especially when we remember that these augherated resources have cume from the pratate lideridity of finends and the efforts of Christan churches, and net from the state. There would be sume further years of hard strughlinas before sho wuld be able to boast of an adequate endownent, Lut we shoud not be discourared on that account. Her hupe lay in the sunduess of the princifles on winch the Carversty is founded, in the mereasing number and wealth of our granuates, and in the strength and liberality of the great Methudist Church of this Dominurn-a Church that numbers more than half a millirn adherents. mereasi g , tro, at the rate of some thrty per cont. in ren y Gars, and tasug' $\$ 150,000$ a year for missions. Such a Church is abundantly able, and would ere long be
found willing to sustain hor universities and schools, and ho would beuture to say that thas culucitional work is the one enterpriso wheh just nuw most urgently domands the attention and onergetic supprort of the methodist Charch of Cianadi. (Luved cheors.)" Addresses wore also dehvered by Drs. Cochtane, Sutherland, and Duwart, loy Prucipal Muls of tho Agricultural College, and by Judge De:an. Tho proceedngs of the week wore slosed by a brilliant conversaiono in the ovenng.

## THE WILBERFORCE EDUCATIONAL INSTITUTE.

One of the peculiar educational institutions of Ontario is the selool which is known by the above title in the town of Chatham. It is, in its present form, the resultant of the amalgamation of the " 13ritish and American Institute" and the "Nazroy Institute," the former of which was founded in 1841 through the instrumentality of Thomas Butler, Rev. Josiah Uenson, J. C. Brown and othors, while the latter oripinated in 1869 through the exertions of tho Right Rev. Willis Nazrey, tho Rev. R. R. Dinsey, tho Rev. Walter ILawhus and others. In 1872 the "Britsh and American Institute" was meorpurated undor its present name and in 1873 the $\because$ Nazrey Instatute was meorpurated with it, Acts being passed for that purpose ty the Legrslature of Ontario. The property is at present vested in a board of trustees who .ave the power to appoint new.members whenever vacanci is occur. The endowment is sufficient to enable them to pay a fair salary to tio Principal; tho present head of the schoul A. MI. Lafterty sit.A., seceives $\$ 1300$. The prugramme of the schoul, which sorves the purpose of a "high schoul" for culuared prupils, is the uns used in the Prosincial high schools. A considerable proportion of the pupils are in the preparatory department wheh is to be regretted as the overgres of the staff maght be more usefully expended on high school work proper. The buldung is somewhat antiquated but the tution $1 s$ periectly free. Mr. Laffertys mambency is expected to termanto in a few monthes and it is to be hoped that he will be suceeded by some wno who is at least equal to him in scholarship experience. It would bo well worth while to make a special effort to put the Jnstitute ma thorough and equpped condition. To found sach a school would at the present time be no casy task and it womh bo a serious luss to the lucality should it be allowed to fall into a state of ineficiency.

## ©archers' Associations.

The publishers of the JOURNAL Will bo obliged to Inspectorg and Secretarlos of Toachera' Associatlons if they will send for publlcation program nes of moetings to be held, and brief accounts of meetinss hold.

Cilimast Diswrict. Cocisty of Kent. - The half-yearly convention of the Chatham District Teachors' Association, which has for its coustituency West Kent and the town of Chitham, was held at the latter place on Thurslay and Friday the fourth and fifth of May. The vartwas sttings took place in the Central School except the Thurshlay eventhy prupular lecture which was delavered m the Temperanco Hall. The lectarer on this occaston was Thomas Krblanl, M. A., Science Master in the Toronto Normal School. He took for thes subject "The Succession ,f Life upon the Farth " and by the aid of the stercopticun and the wy hyilrogen light made it highly interestin's as well as instructive. To the regret of the teachers the audience was not by any means as large as the reputation of the lecturer and the nature of the occasion justifice them in expecting. The proccedngs of the convention proper commenced on Thursday morning with the usual routmo business after wheh Mr. C. P. Kellogg gave an admirable allustration of has method of teaching reading as an elocutionary exercise. Mr. Kellogg took for his lesson several passages in the second reader contaming dialogue and mate the pupls read them with correct emphasis and bufection, omittung the whole of the narrative words. He did not burden ther memordes or confuse therr understandings with rules of any sort but gave them suoul models to imitate and succeeded vonderfully in getting them well imitated ani m keeping both pupils and spectators fully minterested. The next divison was devoted to "Canadian Series of Readers" and in the absence of WW. M. Nichnls B.A.. Whose bame wis coupled with the subject on the programme, it was bricfly discussed by W. Houston M.A. representing the firm of W. J. Gago \& Co., and Mr. David Boyle of the Canada Publishing Co. No action was taken by the Association except to declare a new series of readers a necessity. In the afternoon a number of questions were collected on slips of paper to be onewered by a committee afterwards through the press. Mr. Thomas ('Eagan, principal of the Chatham Roman Catholic Separate School then read a anggest-
ivo papor on "The use of Words" in the course of which lie impressed Mailwavs, for oxample, ) may be inserted; but also in order to afford an some nseful and practical lessons. He rest of tho session was dovoted opportunity for tho correction of numerous errors to be found in tho to an able paper on "Domestic Health" by G. T. McKeough M.D. map and lotter-press. We are also of opinion that our present readors whose remarlis wore calenlated not merely to supply he hearers with a should le superseded by a new series at as carly a dato as possible. number of siginficant facts but algo to show them the genoral direction in which their further prosecution of the subject ahould te d. On Fridny morning Mr. J. Donovan criticised the high sehool entranco examination, objecting to history and literatuross unsuited to the capacities of ruma schools from which the high schools draw their pupils. Mr. Kirkland gavo during tho day threo valuable prelections, ono on mensuration to show how much can be accomplished in that branch of mathomatics without the assistance of Enclid; one on geometrical deductions; and one on "combustion," illustrated by clicmical experiments. Mr. G. R. Cruickshank discussed the topic "Physical Geography" protesting against the present mathots of teaching and examining in comnection with that scionco, aud dwulling on tho necessity of paying moro attention to what is of permancut and universal valuo and less to mere topography. D. S. Paterson B. A. dolivered n brief but practical ad. ircss on "Dovelopment of character in the School Room" anil the dis. cussion of the points he raised was continued byseveral of tho members. The division allotted to G. W. Russ M. P. was, in his absence, taken up by W. Hunston who illustrated in a prastical way the use which might be made of tho "newspaper" as a means of education both at home and in the school room. After the election of officers for the onsuing half year tho Association adjourned to meet again at the call of the excentive committe.

Nortiodberland. - A very successful inceting of the Northumberland 'leachers' Associntion was hell in Proctors' Hall, Brightoln, on Thursdny aud Frilay 4th and 5th of May. Durmg tho short forenoon session general topics were discussed and the following gentlemen were appointelin committco on resolutions:-Messrs. Sykes, Black, Dixon, Boyd and Inspector Scarlett. At $\stackrel{2}{\sim}$ p.m., the subject of "Geography" was introduced in an able essay by Mfr. S. E. Dixun, followed Ly Mr. E. Hayward. R. K. Orr, B.A., next discussed the " Railways of Ontario." He referred to the significance of recent amalgamation and discusseni somewhat minutely thi lceation and projectal routes of several now lines of railway, in aldition to tracing the older lines. Messrs. R. K Orr, G. Dowler, E. Scarlett. I.L.S. and D. C. McHenry, M.A., wero appointed a committeo on text books, und instructed to iraft a resolution on the andject. The subject of "Discipline" was next presented in $n$ most instructive address by the President, Mr. Geo. Dowler. He ras ably supnorted by Geo. Kirk, H. M. Model School, Cobourg, whodwelt mainly on the effect of suspensions and expulsions at the Provincial Model Schools as compared with other modes of punislment adopted throughout the province. The Rev. T. Cullen, of Brighton, nextoffered an excellent address on the "Life and work of Egerton Ryerson D.D., LL. D." He was tendered tho thanks of the association and requested to allow his address to be published. The following resolution of condolence, moved by Inspector Scarlett, seconded by Rev. 1. Cullen, was passed by the association: "In viow of the decp and wide spread gloom cast over this land by the demise of the Veteran Edlucator-Rev. Doctor Ryerson, who for nearly half $n$ century stood at the helm of eduentional affairs of this province, be it resolved, that with carnest and affectiounto sympathy we tenderly condole with those who wora bound by the nearest and dearest ties to the deceased foher of our Educational System, and sincerely commend them to the keeping of Him, who looks with s pitying eye upon a household deprived of its carthly head." Resolved. "that in our sorrow for the loss of him of happy and of honored memot $v$, we find consolation in the belief that it is well with him wo mourn". Resolved "that as a token of respect and veneration for the Ch istian character of a great and good man gone to his rest, a copy of thi heartfelt testimonial of our sympathy and sorrow be forwarded to the widow and family of our departed chieftain." "Home Work" was presented in an arlmirable address by D. C. MeHenry' M.A., who was tendered a voto of thanks and requested to furnish a copy of his address for publication. Mr. E. Cochrane, Deputy-Reeve of Cramahe referred to the multiplicity of authorized text buoks, encouraged more of sympathy between paronts and teachers, and spoke in praise of the present methoil of tearhing as compared with the old mothol Mr. W.J. Gage next addressed the teachers and submitted his excellent series of readers for the ap. proval of tho association. A public lecture was delivered in Proctor's Hall at 8 p.m., by Rev. R. H. Harris of Brighton: Subject-"'Relation of P S. "'eachers to the State," Ho claimed that the future of this country depends largely on tho character of its teachers, and advocated a more general and more thorough education of the people on the broad basis of christianity as the best means of building up and strengthening the state. Second Day's Proceedings:-Oa motion of Mr. E. Hayward seconded by Mr. D. I. Johnston a resolation fras passed requesting the Inspector to take such steps as the law will allow and may seom to himself advisable, to compel the attendance of teachers of this county at the association meetings. Tho committee on toxt books reported as follows :-"In our opinion, our authorizel geographies should be,'rerised in qrder, not only that much which they do not contain, (our Canadian Having carefully examined thoso published by Messrs. Gago \& Co., wo would heartily recommend their authorization, and their general introduction into the schools of our county-belioving that this oxcellent series fully meets our requitements. This report was adopted. "Practical Arithnetic" was introduced in an excellent paper by Mrr, D. I. Jo'mston. The "Question Drawer" was opened by W. S. Jille, B.A., B. Sc. Hediscouraged the practico of handing in questions of hitto genetal interest, imvolving lengthy mathematical solntions. Mr. Geo. Kirk lisposed of thequestions on gramumar. Dr. McLellan was requested to continuo the sulbject of Arithmetic. Ho spoke for a short time on the importance of neithmetic as a means of intellectual dovolopment. Mr. J. WV. Black gavo notice of $n$ motion to deny the privilego of membership in this association to any person convicted of supplanting another teacher or aiding, ahetfing, or in any way countenancing the sanc. At this stage in cho procecelings a delegation from the linghton Boart of Education was received who presented the association with an "Aililress of Welenne." This act of courtesy on the part of the Brighton Boarl, on belalf of the lsrighton people, was highly apprecinted and duly recognized by the associntion. Dr. Mcl.ellan again took up arithmetic and advocated greater thoroughmess in tho elementary teaching of the subject. Teachers were laboring at a great llisadvantage in the lack of school apparatus. The speaker deplored the miscrable penuriousness of the people of this country in tho matter of providing suitablo objects etc., for the benefit of the children. He also illustrated a system of teaching elementary arithmetic which has recently heen adopted in many parts of the United States. This system cannot fail to meet the approval of the practical teacher. He strongly advocated the unitary metiod. A cordial vote of thanks was tendered the Doctor for his elegant aldress. "Business Papers" was presented by Mr. J. W. Johnson, Presilent of Ontario Commercial College Belleville. Mr. Johnson displayed a genuine teacher's tact in presenting his subject. This free discussion of Business Papers was one of the interesting features of the associaion. The speaker was tendered a cordial vote of thanks for his excollent address. Dr. Ale' ellan next addressed a mixed audience of teachers and citizens on National Elucation. It was a characteristic address of thrilling power and eloquence demanding, as the greatest boon to the country, the higher education of the people. He was tendered a hearty vote of thanks. The next meeting of the association will take place in October noxt.

Prince Euward. -The semi-annual convention of the Prince Edward Teacher's Association was held, on Friday and Saturday, 12tiand 13th May. The chair was occupied by the President, S. B. Nethery, who opened the proceedings with prayer. Under the head of routino business, the names of (G. D. Flatt and R. Dobson were added to the executive committee. R. B. Mastin was clected secretary of the associatio: in the place of T. F. Spafford, who was absent. The subject of Promotion Examinations was next considered and a number of suggestions made for theirimprovement. The attention of the convention was also called to the small number of school librarios in the county, and a resolution was adoptal urging teachers to uso their influenco with trustees to have new oncs established. J. Kinnoy next explained his system of marking the attendnnce, recitations aud conduct of pupils, aud was succeeded by Mrs. R. IV. Murray, who read an interesting description of the Institute for the Blind, at Brantford, and the systemof instruction adopted therein. Specimens of some of the appliances used in teaching, weroalso exhibited. A cordial vote of thanks was given Mrs. Murray by the convention. R. Dobson, B.A., then liscussed Moods in Grammar, at consiterable length, after which Miss Fanny Gillespic read in a fino style a poem by Will Carleton, and the convention adjourned. In the evening G. W. Ross, M.P. delivered his lecture on Intellectual Forces, to a fair audience notwithstanding the very unfavorable weather. Thu lecture was one of great value to teachers and was highly appreciated by those who were privileged to hear it. A hearty vote of thanks to the lecturer was moved by R. Dobson, B. A., seconded by Rev. J. F. German, M. A., and unanimonsly adopted. On Saturday. How to teacl History was first explained hy W. R. Brown after which Mr Ross disenssed at considerahle length, and in a telling and popular manner the subject of School Management. The clection of a delegate to the Previncial Convention was next proceeded with, when the president, Mr. S B. Nethery, was unanimously elected. Reading was next discusscd by G. W. Ross. M.P., at soin leggth, when some useful and practical hints were thrown out which should be profitable ts the teashers present. The following resolutions were then read and unanimously adopted by the convention:-moved by W. R. Brown seconded by J. H. Forshea, and:-Resolved that in the opiainn of this convention Gage's series of school readers are very much superior to our present series, and that tho teachers of this county would approve of the introduction of them in their various schools. - On anotion the convention then adjourned.-President, S. B. Nexherr Secretary, R. B. Mastin.

Wentwortr.-The regular half-yearly meeting of the Wentworth Teachers' Association took place in the Court House, Hamilton, on the 12th and 13th of May. Owing to the severity of the storm which raged on the first of these days over the whole of the district the attendance was at no time very large and on the first day it was very slim indeed. In consequence of this untoward incident the proceedings were not as interesting as they usually are with this association. On the evening of Friday, the 12th, Prof. Meeke of Chicago gave a varied and quite successful literary entertainment at the Court House which was fairly attended by the public. Friday morning waz devoted to rontine business, the subject of "Corporal Punisi,ment" being dropped from the programme on account of the absence of the person who was expected to take it up. The election of officers was the chief business of the afternoon, Mr. Maclean of Dundas taking the place of W. H. Ballard, M. A., as president for the ensuing year. On Saturday morning Mr. J. H. Smith, inspector for the county, explained his method of teaching primary arithmetic with the aid of the numerical frame. C. Robertson,M.A., gave a brief address on "Parsing" in which he criticised the indictment brought by Richard Grant White against formal granmar. Mr. Robertson himself advocated the relegation of formal grammar to a late period in the pupil's course but would not deprive it altogether of a plaee in school. Geo. A. Chase, M.A., then read a very interesting and practical paper on "English Literature in the Public Sulhool." He advocated a complete revolution in the present methods of teaching English and the use, for this purpose, of complete literary productions instead of mere fragments. Mr. Chase received a hearty vote of thanks for his valuable paper but did not feel disposed to comply with the request of the association to allow it to be published. In the course of the brief discussion which followed W. Houston, M.A., expressed his cordial concurrence in the views of Messrs. Robert ion and Chase about the expediency of having less of formal grummar taught in schools, and more of English literature.

Dupfrrin.- The meeting of the Dufferin Tearhers' Association which took place in Shelburne on Thursday and Friday May 25th and 20th, was the most successful one ever held in the county. All the teachers with a few exceptions were present. A number of trustees from various parts of the county and many friends of education, conspicuous among whom were two ministers and several members of the County Council including the warden, Mr. Colwell Graham, honored the meeting with their presence. In the absence of the president, A. S. Steele, B. A., the Vice-President, Mr. R. L. Mortimer occupied the chair. The following is the programme:-Agriculture in Schools, by D. Stewart; Grammar in Schools, by Thomas Allan ; a class in Geography taught by Wm. Gray ; Music by R. H. McMaster ; Phonic Lesson on Meiklejohn wordbuilder to a first class, by Geo. Suttie; Uniform Promotion Examinations, by Inspector Gordon; Object Lessons, by S. S. McCormack; a Third Class Reading lesson, "The Miser Punished," by W. Lyon Mackenzie ; Writing, by W. A. McLim; Education in General, by Jas. Ferrie. All these subjects elicited lively but friendly discussions. On Thursday afternoon Mr. David Boyle and Mr W. J. Gage, gave half-hour addresses, the former advocating the Royal Canadian Series of Readers now in course of preparation and the latter advocating the Meiklejohn Readers. A committee was named to consider a change in our series of Readers and the following is their report which was voted on by the convention and carried, about four to one:- 'We consider the Meiklejohn Readers the best series of reading books yet published in Canada and would recommend them to the Minister of Education with a view to their authorization in order that they may be used in our schools as we consider them much superior to the reading books now in use.' Committee : N. Gordon, P. S. I., D. Stewart, A. L. McIntyre, Wm. A. MoLim. On Thursday evening Miss Lewis, of the Toronto School of Elocution, gave an entertainmentof readings in the M. E.Church, the readings being interspersed by music under the able management of Mr . Sleightiolm. Miss. Lewis also addressed the convention on the subject of Elocution and in the course of her remarks paid a high tribute of praise to the Meiklejohn Readers as being the best ad pted for teaching she had ever seen. The convention passed a unanimous, resolution giving the subject of Uniform Promotion Examinations, a six months' hoist. On the last day of the convention, the Town Council of Shelburne gave a free dinner to the teachers at the Mansion House, after which speeches were delivered by Messrs. Wm. Jelly, M. P. P., N. Gordon, P. S. I., F. G. Dunbar, J. P., D. Stewart, J. P. and A. L. McIntyre.

## REVIEWS.

Ter Public Schoor-New England Publishing Co., Boston, Mass. It might have been thought that with such publications as "Education" "The Journal of Education," and "The Primary Teacher," issued by this enterprising company, that there was scarcely room for another bearing upon the same topics. However we find from the paper before us, which is the first number of a monthly journal devoted to the elucidation of the principles and mothods of the "New Education," that there was still much scope not embraced by the other periodicals, and a fresh development that may be secured and utilized for the teacher's
benefit. The articles, which are well written, are from practical educationists, and the odor which pervades them savors more of the schoolroom or institute than of the editor's sanctum. Teachers discuss with teachers the live matters that come before them in their work, and in this way much more practical, genuine gocd may be done than by the theorizing that too often fills up the teacher's magazine. The paper is edited by the Hon. T. W. Bicknell, whose world-wide reputation as a scholar is in itself sufficient to guarantee its excellence. The dollar per annum for which the journal is sold could not be spent to better advantage by a teacher, especially a young teacher, as the beneficial effects resulting from its study would be of incalculable service to him in his daily work.

The Original Chatrirbox-Estes and Lauriat, Boston, Mass. We have at various times urged the advisability of supplying children who are learning to read with su pplementary reading books. The young mind, as the beanties of language are unfolded to it, seems to grasp at everything that comes in its way to satisfy the newly acquired appetite, and the temptation to becone morally and intellectially poisoned by vicious, trashy stories is often very strong. We therefore commend very highly such publications as Chatterbox, as from the nature of the reading matter and illustrations, instruction in the most pleasing form is conveyed and a desire for healthy literature formed. "The magazine is issued monthly, price $\$ 1.00$ a year. .

The Crntury-Scribner's Monthly-June.-To those few teachers who have not seen and read The Century, we cordially say: "Before the holidays subscribe for at least six months. The 24th volume began with May, and you will thus have three numbers in July to read as you are resting. Rest gives be: efit in proportion to the joyousness of our spirits while we free from work. Go to some healthful quiet place for your reas, and take The Century to make you joyous, and the end of the vacation will find you strong and happy." The June number contains five illustrated articles: 'Around Cape Horn,' 'Opera in New York' (No. iv.), 'The Bee Rastures of California,' 'The Century Prizes for Wood Engraving,' and 'Marble Mining in Carrara.' The portrait of Cardinal Newman forms the frontispiece, and is one of the finest engravings ever issued. . None of the nnmerous articles are of special interest, but they are all interesting. The editorial departments are full of information and practical suggestions. In 'Home, and Society' there is a very valuable article on 'House Construction.', It is probably the most useful article if the Magaxine. 'Bric-a-Brac,' is better than usual.

NEW BOOKS.
An Etymological Dictionary of the English Language. By Rev. Waiter W. Skeat. New Yort, MacMillan \& Co. ; Toronto, Willing \& Williamson.
The sources of English Words and, Phases classified and arranged so as to facilitate the expression of ideas and assist in literary composition. By Peter Mark Roget, M.D., F.R.S. New York and Chicago, John R. Anderson de Co. ; Toronto, Willing \& Williamson.
A Compendious Dictionary of the French Language; adapted from the Dictionary of Alfred Elwall. By Gustave Masson. New York, MacMillan \& Co. ; Toronto, Willing \& Williamson.
These volumes, each admirable of its kind, have been handed us as we go to press. A fuller notice of all of them, and espeoially of Skeat's Etymological Dictionary, which is one of the most valuable works on the English language, will appear next month.

## MAGAZINES.

Ths North Ausrican REVisw. -The No. of this ably conducted monthly for May contains sixarticles, vigorously written by contributors most of whom are well known in the world of letters on interesting and important subjects. "Party Schisms and Future Problems" by Card Schurs, opens with describing the faction quarrels which exist within the two great political parties of thi United States and which are gaid to representation of the presents situation them, and proceeds to give an analytical form for it. "Days with Longfellow" by Samuel Ward, will be read with an absorbing interest by thousands in America and over all the world where the nane of the great poet, one of the greatest of modern days, is known and whose "Psalm of Life," and that litite gem "The Arrow and the Song" are, of themselves, sufficient to render his name inmortal. "What does Revalation Reveal';' by Elizabeth' 'Stuart Phelps, shows an notive and inquiring mind, but one that hag not rested upon the Bible with simple and hearty faith. "The Navy" by Lieut-Commander Henry $\boldsymbol{A}$. Gorringe undratakes to prove that an efficient naval force ieepential to the welfare of the United States, that the veasels now on the navy list are uselas for the operations of modern warfara, that the blame of this rests, not on Congrass, but the system of naval administration and that the creation of an eficient nasif forme would be greatly to the advantage of the carry. ing trade of the States, and ound be efected at a com aratively small ontiay. W. If. Mallock furnishes Part I of "Convergations with Bolitary." And Gail Hamilton writes clearly and forcibly on "the spens builet," showing that neither surgical science, theology nor law has gathered any laurols from the assassination of Prosident Carfield, and that the only one who did 80 was the victim himsolf-the President, the politioian and the atatesman.
The June number of The Atrantic Monthly contains a ine steel portrait of the late Henry Wadsworth Lougfoliow, apem, "Decoration Day," by him, a poem in memory of him by that wonderful aptueganarian, Oliver Wendell Holmee, and an account of his life by O. B. Frothingham. Mr. Bardy contributes five additional chapters of "Two on a Tower;" Elizabeth Stuart Phelpe, two of "Doctor Zay;" Williaw Henry Bishop, three of "The House of a Merchant Prince; "and M. H. Catherwood, a complete short story, called "Serens." The fourth of the very interesting series of "Studies in the South "makes its appearance. The remaining contents are "Mrs. Centlivre," "The Rapid Progreus di Comnurisme" "Charles Darwin," "Alphonge Deudet," "The Contributors' Club," and "Boolss of the Moath."


[^0]:    (a) The Grand Trunk from Montrcal to Belleville, Port Hopo, Whitby, or Toronto.
    (b) Tho Mlldand from Bellovillo dec. to Gravenhurat.

[^1]:    - In the Doninton syatom of ianil aurvesn.

[^2]:    - The boundaries of these districte can be sraced on the ordinary school maps of the Dominion with suficient accuracy for all practical purposes, Beginning at the 49th parallel, at a point miduay between the two points where it is crosicd by the Soutis Liver, draw a line dup north o a polut in the latitude of Fort a la Cornc, and frcin this latter point draw a lino due cast across Lake Winnipe ; these lines ivill bo tho new western and northorn boundarics of Manitoba. From the point where tho northern boundary of Janitoba strikes the westerr shore of Lake Winnipeg drans a line north-
    ward along the Lako and down Niclson Hiver to a point slightly wouth of tho 5Sti wardilel. and from this latter point, drawallno due poest to tho l20th meridian and north along that meridian to a point near the coth parallel of jatitude. Beginning noraln at the 40 th parallel slightly weet of the 110 th meridian. Iraw a line dua norti
     west shoro of Athabaska Lake and Slave River to a polnt just south of tho ooth paralicl: West from this point drow a line dito vest to the ono previously indicated on tho 120th meridlan. Finally through a point slightly north of fort Yells dran a linedue weat from the Manitoba boundary to the line juat west of the 210th meridian.

