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Address-W. J. GAGE \& CO., Toronto. CANADA SCHOOL JOURNAL HAS RECEIVED
An Honorable Mention et Parts Exixhtition, 1878.
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The Publishers frequently receive letters from their friends compaining of the non-recelpt of the JOURNAL. In explanation they would state. as subscriptions are necessarily payable in advance, the, mailing clerks havelinstructions to discontinue the paper when a sub. goription expires. The clerks are, of course, unable to make any dis- 1 tinction in a list containing names from all parts of the United States and Canada.
-The name of John Greenleaf Whittier stands deservedly in the foremost place among the Poets of America and of the world. In a letter addressed by him to the Rev. C. P. Musvang, on the staff of this journal, and of whose poems, "Lyrics of History and Life," he speaks in high terms of approval, Mr, Whittier adds :--




We are pleased to inform our readers that our efforts to give them a first-class journal are appreciated abroad as well as at home. We clip the following from the Central School Journal as another specimen of the kindly things said about us:
"No ono of the monthlies is more welcome than the Canada School Journal. We recognize at a glance that it is non-American, but this is no barrier to its hearty endorsement. It is unsurpassed in its clearness and brevity of pedagogic definitions and rules, and many of its articles, exch as those from tho pen of Hon. James 'Hughes, have become a standard to the cducatiunal profession."
-Subscribers will please notice that the date of expiration of subscription is shown on the address, thus. "John Smith, Hamilton, April, 81," indicates that the subscription expires with April No. As we discontinue the mailing of the Journal. on the expiration of subscription, our friends will please renew promptly.

## THE JOURNAL AND ASSOCIATIONS.

We are glad to acknowledge during the past month the receipt of a letter from the Secretary of the Stormont Teachers' Association, reporting the adoption of the Journal by the Association. The Association in Mr. Switzer's district also decided that each member of the Association shall have a cony of the Journal. From all parts of the Province we are in receipt of reports which go to show that the most practical way of providing a good library for teachers is to present each member with the Canada School Journal on payment of a small fee. Inspector McKinnon, of Peel, informs us that the plan has produced good results. in his county, by causing teachers to take an increased interest in the Association. Inspector McIntosh, of North Hastings, says: "The Canada School Journal is making constant advancement."

As a means of increasing the interest in 'Teachers' Associatrons, and rendering the work done at them more useful to all who attend them, we hold thai nothing can accomplish so much good as placing a well-corducted professional journal in the hands of every teacher. The subjects introduced at the semiannual meetings should then be based on some of the articles which have appeared in the Jounval, and in this way every teacher will be able to understand and intelligently take part in the discussions. We will be glad to receive suggestions from our friends in the numerous counties in which the Joursal is sent to every member of the Association, as to subjects which they would like treated in its columns, with a view of making, it of the greatest amount of practical use.

## THE EDUCATION DEPOSITORY. !

For many years past the Government have maintained in the Departmental buildings, in the Normal School square, a

Depository with two distinct branohes, one for books and the other for maps and apparatus. Public opinion has been found so strongly arrayed against this institution, that the Minister of Education has wisoly resolved to abolish it, and a few weeks ago he publicly announced this intention on the floor of Parliament. It is necessary, however, for the Government to bear in mind that yopular dissatisfaction with the Depository has not been solely due to the fact that its oxistence was an undue interference with private busiuess entorprise. The chief cause of the molorious want of public confidence in the institution has been a suspicion that those in charge of it have been systematically making money out of their position over and above their legitimate salaries. In fact, it is not a mattor of suspicion at all, for the Public Accuunts for many years past show that large annual payments have been made to Dr. May, who has charge of the Depository, for map-making, mapcoloring, etc., while it is well known that there has not been in existence any check upon his receipts in the shape of competition by tender. From evidence given last session, before the Public Accounts Committee, by Dr. May and Mr. Carter, who has for years had a monopoly of map-mounting, without competition, for the Depository, it is quite clear that a state of affairs has heen in existence which calls for a searching investigation before the Depository is wound up. In the course of his testimony, Dr. May admitted that he was the chicf capitalist in the "Canadian School Apparatus Co.," of which his son was manager ; that Mr. Carter was at his instance taken in as a member of that Company without capital; that the Company manufactured chemical cabinets, blackboardbrushes, models, etc., which found their way into the Depository through the medium of Elliott \& Co., and othors, who acted as agents, and that some months ago the stock of the Company was sold out by Dr. May to Mr. Carter at twenty-five cents on the dollar, on the understanding that Mr. Carter was to sell it to the Depository and repay Dr. May out of the proceeds. Either Mr. Carter must have been a very nominal member of the "Canadian School Apparatus Co." or that Company must have been a myth, for ho stated in his evidence thet ho was not a member of it at all-flatly contradicting Dr. May on a point of considerable importance.

It is very much to be regretted that no more evidence was takeri by the Public Accounts Committee, for this was the only valuable glimpse the public have ever obtained of the way in which things have been managed in the Govornment estaklishment. It is quite clear that Dr. Mry should not be permitted to proceed with the winding up of the Depository, unless he can satisfactorily explain away some of the admissions he himself has made-admissions which go a long way towards confirming the worst suspicions the public ever entertained in connection with the Depository. Since the Legislature has been procogued, it has been currently stated in the daily press that the Minister of Education has wisely determired to issue a commission to investigate the " management of the Deposi tory;" and that the investigation would be undertaken at once. If this statement is correct, the public will be glad to have it confirmed by the immediate appointment of a thoroughly com. petent commissinner authorized to take evidence on oath.

Nothing short of this will now satisfy the public, and nothing less should satisfy Dr. May or the Govornment themsolves.

## MINOR MORALS AT SCHOOL.

The spirit of the age, on this coutinent at least, is before all things zealous for equality. There is an impatience of authority which expresses itself in Walt Wmiman's denunciation of all political syst ms which make the yuler of more account than tho citizen. But equality, if developed boyond its simplest condition, in a staten of savage life, must require a limitation of itself in every respect, which, as Buntham expressed it, trenches on the rights of others. Especially is this the case in the maintenance of that social recognition of the rights of others which we call politeness. If liberal institutions are the programme of our national happiness in the future, it must be by a process of "levelling up," not of "levelling down." All labor will be honorable when no laborer is a boor. In order to conduce to this, the school should be a training place for what are called "the minor morals," but which have far more than a minor relation to individual and national happiness. By a scrupulous attention to this, much friction will be avoided, and the position of the teacher strengthened.

- CHANGE OF BASE.

We are pleased to find that the condemnation expressed by us, and our numerous correspondents, concerning the unprofessional conduct of the Principal of the Hamilton Collegiate Institute, in issuing a magazine with the view of puffing his school, has led to a change, nominally at least, in the management of the paper referred to. It appears with the name of a new publisher, and a different business manager. We are glad to note the chenge, and are only sorry that we cannot assure the High School Masters of the Province that the change will free them from the ungenerous treatment they have received in the past We regret to see indications in the marazine which clearly point to the conclusion that its managemeiat and aim are in no sense really altered. The hero of "repudiated scholarship "fame is now recogaizable by his fellow-teachors even when his name does not appear.
-As we go to press we are in recaipt of a communication from Mr. Inspector Marling, relating to the article in the March number of the Jounsal respecting his report to the Education Department for 1880. It will appear in our next issue.
-A just condemnation of an attempt by penny-wise and pound-foolish economists at Swansea, to cut down the teachers.
salaries, is thus condensed by the School Guardian (England) : --"An attempt has been made at Swansea to reduco the salaries of tcachers. We cannot too much press upon managers that this is the last resource to which, in their struggle for economy, they should betake themselves. They who know anything of the offorts of those who worked for education, say thirty years ago, are awaite that the great exertion of the time was to raise the status of the teacher, and to make it worth the while of a better class of won and women to engage in the work of Education. This, too, was the object of the historical Minutes of August and November, 1846. From that time the aims of all our Committees, and Commissions, and Training Colleges, has been to raise the teacher. It is a necessary accompaniment of such a change for the better, that he should be better paid. We must have good teachers, and, if we are to have good teachers, we must pay fair salaries. In this, as in other things, the laborer is worthy of his hire."
-A Mr. James Bullock, Head-Master of the St. James-theLess Sohool, Westminster, adopted the following strange method of teaching the gospel:-
At the Westininster Police Court, on Wednesday last, Thomas Bullock, head-master of the St. James-the-Less (Westminster National Schools, appeared before Mr. Partridge on a summons charging him with assandting a boy named Fiederick Teasdale, eight years of age. The complainsat deposed that he was one of tho scholars at the school, and on the 27 th ult. the defendant violently boxed his ears, blackened his eye by the force of the blows, and bruised his face, because he was unable to answer some questions in his Scripture lesson. In cross-examination by Mr. Dutton the boy denied that he was playing or looking about hefore his ears were boxed. He was quite sure that he did not cause the injuries by knocking his face against a slate. The punishment of the school was caning on the hand and boxing of the ears. Two of the complainant's schoolfellows corroborated this evidence, one of the boys stating that the defendant gave complainant as many as ton knocks on the head and ears. Mr. Teasdale, the father of the complainant, stated that, finding that his son had been knockod about by the schoolmaster, he at once took the lad to Dr. Pearce, the divisional surgeon of the B division of police. Dr. Pearce gave the following certificate :-"Uctober 27. This is to certify that, having examined Frederick Teasdale, aged eight years, I find that the whole of the left ear and side of the face is very much bruised and discolored, and the boy is very unwell in consequence." A postocript was added to the cortificate, dated November 1: "The marks of contusion are still visible, and the boy has not properly recovored.-G. Pearce, M.D."
We are glad to be able to state that this man, who violated so grossly the rules of the Scriptures he was teaching, wa fined 40s. and costs.
-The following opinion of Dr. Boulton, in the Medical Record (London), will have interest for those who study the conditions of school hygiene:
In a communication on tho Physical Dovelopment of Children, Dr. Boulton, in the London Bredical Record, states his conclusions from observationsi, not on single individuals, but from repeated ones on the same, extending over ton years, that different healthy children grow at different rates, and that in average English children, brought up undor favoursble circumstances, the rate is two to threo inches per year-a growth of more or less than this should oxcite apprehonsion. The healthy child, that grows regularly two inches per year, becomes a short-statured. adult, whilst the rate of three inches per year indicates a tall adult. Whatover the rate of growth, he affirms that weight for height shotid bo in each caso
identically the same; and all hoalthy children should grow broad in proportion to their hoight. Betweon 3 and 4 foot; thn increaso in weight should bo 2 lb . por inch; and between 4 cond 5 foet, $2 \frac{1}{2}$ lb. per inch. And further, the avorage woight at 3 ft . is 2 st .8 lb .; at $4 \mathrm{ft}, 4$ st. 4 lb . ; and at $5 \mathrm{ft}, 6 \mathrm{~g} \mathrm{st}$. 6 lb . These weights may be uxceoded slightly within hoalthy limits, but the author gives 7 lb . below these avorages as thio margin of safoty; below that limit tho childron aro ill-developed, and readily succumb to constitutional diseases.
-The "iondon Fres.Press of March 3rd, has an able article criticising the attack on Mr. Crooks in tho Ontario Legislature. The Free Press considers that Mr. Crooks was weak in his defence of the University appointments, but strong in vindicating his management of the Public and High Schools of the Province. This was of course by far the most important point at issue, the University appointments question being what Carlyle calls, "an extinct Satan." We quote, with approval, our contemporary's remarks:-
"In fact, Mr. Lauder and those gentlemen who join with him here, laid themselves opon to the charge flung in their face by Ministerial supporters, that they are igorant of the questions which they undertake to discuss. They will find no man who understands the subject thoroughly, who will agree with them, that most of the changes introduced ere not improvements. The true facts are just the reverse. If thero has beed progress made since 1871, and we believe there are few intelligent men who will care to question it, then to the better system of inspection that now provails must much, yea most, of this improvement.be ascribed."
-The Chatham Tribune has a leader on State Support to all but primary Education, which, again, it would restrict to the three R's. It avows that "the project of disendowing Upper Canada College is only part of the larger project of disendowing all schools and colleges, except the primery schools." Precisely so ; and this movement is only a. Canadian wave of the tidal wave against public Education which h.ss. lately swept over the States, a movement which was essentially supported by the rich Philistinas who grudged paying for the education of the poor. It is directed against secondary education and the High Schools and Colleges, but its next object of attack will be the public schools of the country. This is a "poor man's question." Our contemporary lauds the Bobcaygeon Independent as "an outspoken journal, which cares not who it hits." And whom does it hit when it attacks High Schools? The poor man and his children.
-Tom Savioy was no work of creative genius, but it was amusing and fresh. It was calculated to remind us all, especially those engaged in teaching, of the large part of boy-life that lics outside School and even Home, and of the genuine "good" in the midst of "things evil," such as idle habits, slang, or irreverence. But the "bad tooj has been sadly overworked : his diary, his doings, his scrapes and his dialect: are all the very worst reading that could be put before the youth of a generation nol too remarkable for reverence, courtesy, sacred things and reputable ways. Besides, the "Bad Boy" is not only "bad" but stupid; let us have no,more records of the habits and toilet mysteries of tramps, in glorif. cation of the juyenile dunce and rough.
-Wo commend to the friends of Education throughout Canada the example of Mr. Alderman Hallam, of Toronto, in offering two medals for the best answering in Canadian History and Geography. Pericles, in the ono speech presorved to history, has said that every good citizen should form an intelligont opinion on everv great question which concerned his country. The best preparation for this is surely the fostering of a patriotic spirit in our schools, and the way to insure this is not to indoctrinate our youth with Canadian spread-eagleism, but to give a clear iden of the past history and present condition of the land of their inheritance. A few lessons in the elements of political cconomy and the philosophy of lav might be added, if not in a text-book, at least as chapters in our Public School readers.
-The moral hygiene of our schools needs a protest against two evils which affect the health and mental vigour of so many, not only among the scholars but the teachers, of both sexes: we allude to precocious tobacco-smoking, and late hours kept by girls at dancing parties, before the constitution is suficiently matured to stand the effort at turning day into night. Smoking may be an open question with adults; when used by younger persons it acts as a dangerons narcotic poison, arresting growth, and causing paralysis and other terrible nervous diseases. Not less injurious is the indulgence in dissipation, which is so often the cruse of the "sickness" which hinders young ladies from attending to their studies or their duties.
-The Duke of Argyll, in the March Contemporary, argues that the condition of certain savage tribes, far from being the lowest step in that evolution of human nature which constitutes progress, are really an evolution in a wrong direction, and lead to conditions lower than those of the brutes. In certain evil tendencies, the brute nature has certain limitations, thost of instinct, which retain the beast of prey within their control. But man's will is free, i. e., free from those limitations. Ferocity in savage races may develop itself into a destroying force, such as that which destroyed tae maze-growing civilization of prehistoric America, and within the last four centuries theagricultural civilization which Cartier found in Indian Hochelaga.
-A Conference, held at Manchestor, England, has called attention to the increasing practice of smoking among boys. It was urged, in the comments made by the Eiducational Iimes on the subject, that there is no force in the objection that it is useless for teachers whe smoked to put down smoking with boys. • The difference of age makes all the differenoe. A crusade against the use of tobacco by teachers would be Quixotic." And common sense will show that nature itself allows the indulgence of pleasures to the mature organism which are highy unfavorable to the health of the immature. Under the head of Practical Ethics for Schools, there is need of clear teaching as to the evils from use of tobacco by boys, arrest of growth, zervous disease and paralysis. With men smoking is a social
habit; with boys it is illicit, a vice, and one lakely to ho combined with drinking.
-One, of the great advantages of Mathematics as a means of education is the fact that in the study of that subjeot it is absolutely necessary for the pupil to do tho work in most part. by his own effort. A feeling of the importance of History and of Literature is growing amongst educationists. But in order to make them as invigorating as mathematical studies, it is surely necessary that they should be so taught as to make the student think and work for himsolf. Mere manuals of literature cannot begin to do this, neither can worn-out mothods of teaching History, which, as Carlyle lamented in his own school days, merely fill the mind "with dates and dead vocables."
-The Globe of March 1st does well in praising the father of an insubordinate boy at St. Mary's, who, on investigating a complaint urged against a teacher, found it without foundation, and punished his son for the deceit. Parents should consider, when they hear a complaint of a teacher from their child, how very difficult it is, even when no deceit is intended. for a child to take a just or accurate view of the relation between himself and the administrator of school discipline, how much that diffculty is increased by the comments and sympathies of other chidren, and how fatally it is sure to be perverted into falsehood if the parent shows a disposition to side against the teacher.

- The following letter, addressed to the London Timei, is a significant comment on the policy which refused educational facilities to the "Nonconformists" to tho State Church of Eng$\mathrm{l}_{\text {and }}:$.
On the subject of "Nonconformists and the Senior Wranglership," Mr. J. Carvell William3 writes to the Times as follows :-- Aiter the passing of the University Tests Abolition Act, a wellknown momber of the University of Oxford said to me: 'The best thing you can now do is to get Nonconformists to send up their most promising young men to the Universities; and, if I may judge from the results, Nonconformists appear to have been of the same opinion. For this year, as last year, the Senior Wrangler at Cambridge is a Nonconformist. The second in the Mathematical Tripos list is also, I am told, of Nonconformist origin, and the third is. the son of a . Nonconformist minister. Another Nonconformist stands tenth on tho list. This, sir, is the fourteenth time in twen-ty-one years that the Senior Wranglar has been a Ncnconformista surprising fact, considering that alarge majority of tho undergraduates at Cambridge are members of the ©hurch of England. It shows what Nonconformists lost by the eallesiastical restrictions of past times, and, inferentially, what the nation probably lost also.'"
-Some of our English Educational oxchanges are much exer. cised at the possible consequences of the high positions young lady students are taking at the Cambridge examinations. What will happen should the unspeakably awful event come to pass that a woman "shall beat the Senior Wrangler or Senior Classic, shall any such dignity survive"? Well! even for this, as for other developmente of progress, Nature and the condition of things will no doubt provide, the fittest, as usual, surviving.
-We quote the following from an address given by Mr. J. Taylor Kay, the Librarian of Owen's Collego, Manchester, England :-" For many years a remarkable fact has been before my notice, and continually confirmed by a long experience in the Mancbester Free Libraries, that school boys or students who took to novel reading to any great extent, never made much progross in after-lifo. They neglected real practical life for a sensually imaginativo one."
-The fallacy that the increase of Crime goes on pari passu with the advauce of Education, has been well replied to in Dri Allison's late articles in the School Journal. This fallacy is being revived in those nowspapers which are not ashamed, at this time of day, to abet the cry of seligh Wealth against Education. We are sorry to say that the Chatham Tribune, in an article of the most renctionary kind againgt State aid to Education, resurrects this falso doctrine. It says Lord Brougham's prophecy has failed as to Education lessening Crime.
-We are glad to seo that the important practical question of Superannuation has been well and thoroughly discussed at the last Diddlesex Teachers Association. We differ from some of the speakers in considering that in this, as in all schemes of Insurance for the industrial classes to which Government aid is givcn, the payment of an annual sum should be obligatory on ell.
-Lord Dunraven's proposal for throwing open public museums and gallerics on Sundays does not seem to be approved of by the Englisin school journals. It would no duubt lead to a considerable amourt of Sunday work, besides the interference with the religious interests and feelings of the people. There are other opportunitics for artistic culture without trencling on the Day of Rest.
-The Iondon School Board has at lasi closed the vexed question of " leeping in," by expressing disapproval of the practice as a rule, while leaving exceptional cases to the discretion of the teachers. This is probably as far as legislation can provide for the application of a fixed rule to widely differing circumstances.
-At Stubershem, near Clm, in Germany, a schuol has been established for girls of the peasant class to learn farm work, cooking and washing, also sewing, mending and knitting. The village doctor gives some instruction in hygiene and natural history. These classes are only held in winter.
-Mrs. Garrett Anderson, M.D., praises tho methods of training at the far-famed Girton College, because students are not admitted there till the age of eighteen. She objects to " haste, excitement, and over stimulation" in the education of girls.


## TEACHERS' SUPERANNUATION OR PROVIDENT FUND.

No subject has beon discussed so largely during the past two years by the teachers of Ontario as the suporannuation question Tho timo for action by the Legislature is near at hand, and wo hopo that every Association in tho Province will consider at an early day the points submitted in the following circular from the Legislative Committeo of the Provincial Association. We have already givon a large amount of attention to this subject ; but we propose during the next fow months to publish all the information wo can obtain concerning the working of Teachers' Provident Funds, or Pension Acts in othor countries :

## Circolar to Pubic Schuol Inspectons.

Dear Sir,-The Legislative Committoe of the Outario Teachors' Association respectinuly request you to bring this circular under the notico of your local Tuachers' Association. As the result of several interviers we have had with the Micister of Education on the subject of amendments to the present law respecting superanduation allowances to teachers, he has expressed his willingness to consider and submit for the sanction of the Legislature at its next session such amendments as would fairly represent the views of tha great majority of the teachers on the subject, and which the Legislature could reasonably bo expected to approve of. lf your Association has already held its first semi-annual convention for tho present year, please briug tho subject befure the teachers in your inspectoral division by means of a special meoting, or in any other way which you think best. It is very desirable, in order that the answers $w$ this circular may bo cartully. cunsidered by the Legislative Committee before the next meeting of the Provincial Association, that the opinions of your Association be sent to the Secretary of thas Cummittee on or before the first day of July next.
The hiuisier thinks the following propusitiuns are necessarily involved in the consideration of the basis of any now system, and that it is desirable that the opinions of the Teachers' Associations should be given specifically on each of such propositions:

1. In lieu of the present provisious of the law respecting the Superannuated Teachers' Fund, the "Teachers' Retiring Providont Fund," in this Act termed "the Fund," is hereby established, and such fund shall consist of all sums that may from time to time be appropriated by the Legislature out of the consolidated revenue of the Proviuce, and of all sums hereinafter provided to be paid by. all persons entitled to a retiring allowanee as hereinafter also provided.
2. The following are entitled to a retiring allowance, namely: every male teacher of a puiblic or separate schcol holding a first, second or third-class certificate of qualification under the regulations of the Education Department, or a valid county board certificate of the old standard; also every female teacher of a public or separate school holding any like certificate : also every legally qualified naster of assistaut inaster of a high schoul uf cullegiate institute, and every public or. high school inspector.
3. The conditions on which such person shall be entitled to the retirng alluwance are as fullows. each persun must have ontributed annually to this fund a sum equal to two per cent. of tha salary-limited to one thonsand dollars as the highest-payable to him during each year of tho period of his serrice.
4. Every male teacher of a public school is required to make such payments annually into the fund during the period or periods in which he is engaged in toaching:
5. It shall be optivnal with auy female teacher, separate school teacher, high school master or assistant master, or public or high school inspector, to make such annual payments into the fund ; but no such person shall be entitled to any of the benefits of the fund unless such annual payments are made by such person in each year during his perind of sorrico, within such periods as may be provided by the regulations of the Education Department.
6. Every teacher, master or inspector with whom it is optional to contribute to the fund shall, during each year of his or her service, and not otherwise contributive to the fund, pay the sum of two dollars for the purposes thereof, and snch payments shall bo considered and taken as payments made protanto to the fund, in case such teacher, niaster or inspector should at any timo during his or her period of sorvice become a contributor to tho fund undor the option aforesaid.
7. The said sum at the rate of two por cont. upon the salnry of each person, and the said sum of two dollars also to be anuually paid by non-contributors, as harcinbofore provided, shall bo made by way of abatement from the anmual apportionment of the Legislative Pablic School Grant, and the Ministor of Edncation shall in his certificate to the Provincial Treasurer of such apportionment also stato the amount to bo deductod from the salary of each person as his or her ammal payment to the sad rotiring fund, and all sums so deducted shall be paid into and form part of the "Teachors' Rotiring and Providonit Fund."
8. All monoys from time to timo payable to the said fund shall bo carried by the Provmeial Treasurer to a separato account for this fund distinct from the consolidated revenue fund and also any intorest accruing thereon.
9. Every person who complies with the foregoing conditions as to contributions to the fund may retire from the teaching service in his discretion after thirty years of actual teaching, and having reached the nge of sixty in the case of male teachers; and after twenty-five years, having reached the age of fifty-five, in the case of female teachers, and shall thereupon be entitled to receive a retiring allowance equal to cne-sixtieth of his average salary in respect of each year of his teaching, and if the service had not been continuons, then in respect of the number of years of actual service.
(2) The interest of any persun in the fund, or in any retiring allowance when granted, shall not be assignable by such person, or be subject to any execution, attachment or process of any court of law or equity, or judge's order under judgment in tho division court.
10. No retiring allowance shall bo wade for any period of service of less than ten years; and no teacher who retires befure he serves the full period of thirty years in the caso of males, and of twentsfive years in the case of fomales, will bo entitled to a retiring allowance, uuless it has been established by evidencesatisfactory to the Education Department that such teacher has become incapacttated by bodily or mental infirmity from performmog has duties as a teacher, master ut mspectur, as tho case may bo, ur unless such male tencher has reached the full age of sixty years, and such female teacher that of fifty years; but any such retiring allowance is liable to be withdrawn in any year, unless the incapacity conunues; and the recipent is annually to present himself to the public school inspector, in order that ho may repurt thereon to the Education Department, and any teacher whoso disability may cease, and who resumes the gerviw of teaching, will become entitled to the benefits of this fund.
(2) Any male teacher upon reacharg the full age, of sixty years, and any female teacher that of fifty-five years, shall be entitled to his or her retiring alluwance, nutwithstanding the periuds hereinbefore provided have not been fully sorved by such teachers.
11. No person shall be entitled to receive back any sum contributed to the fund; but in the case of the decease of any person wathuut having been placed un thes fund, has ur her wifu or husband, as the case may be, or other legal-representative, shall bo ontitled to receive back all sums paid by him into the fund in any year other than during the first ten years of his service, with interest at the rate of five per cent. per annum.
12. The periud "r periuds durng which any teacher, befuru tho passing of this Act, has been eagaged in teaching, shall be allowed for as if served under its provisions, and any payments made by him on account of the former "Superannoated Teachers' Fund" shall be considored and taken as payments made pro tanto to the fund heroby established, and any sum which is required to be paid to equal the amount annually payable to the fund under this Act may be made up by payments in five equal anvual instalments after the passing of this Act, or as otherwise provided by the regulations of the Education Department.
13. The alluwance to teachers who are nuw on the hast of thuse superannuated, under the provisiuns of the furmer lat-. will continue to be paid to them under and subject to the conditions titc.a.s.
By order of the Legislative Committee,

> ROBERT W. DOAN,

JAMES L. HUGHES,
Chairman.

## THE QUEREC TEACHERS' PPNSION ACT.

As the Act litely passed by the Quebec Government, entitled "An Act to cstablish a pension and benevolent fund in favour of officers of primary instruction" (A.ct 43, 44, Vict. cap. XXII), which received assent on July 24th, 1880, was the subject of a paper by Dr. Niles of Quebec, and was much discussed in tho

Provincial Convention of Protestant teachers held at Montreal in Octobor-tho following digest has been preparod.
(1) Officers of promary instruction.-This torm includes. "school inspectors, professors of normal schools, holding diplomas, and male and fomalo cortificated toachers, teaching in and institution under the control of school commissionors or trustees, or subsidizod by thom or by tho Government, but does not include mombers of tho clergy or religious communities." (c. 1.)
(2) The pension fund.-To provide for ponsions.
ist. A roduction or stoppage of two per cent. por annum to be made from all salaries. This to bo taken lalt yo.rly by the Superintendent of Public Instruction out of the grant. (c. 16.)

2nd. A stoppage of one per cent. to be made annually from the "Common Şchool" and from part of the "Superior Education" funds.

3rd. An ammual grant of one thousand dollars por unnum to bo made by the Government of the Province.
The amount thus raised to be converted into Provincial or Domimion bonds, and held in trust by the treasurer of tho Provinco, strictly for the purposes of the Act. If the interast be not sufficient to pay pensions, the stoppages from aslaries of officers to be increased. (c. 12.)

Note.-Salarics to be estimated by the School Inspectors of Divisiuns, and to be hel. 1 tw include ludging, board and fuel, when given as auch. (c. 17, 18.)
(3) Nature of pension.

Ist. Tho ponsion to be annunl, "based upon the average amount paid to officer during tho years he has passed in teaching, and for which ho has paid the stoppages." (c. 2.)

2 nd . Such pension not to exceed the following rates, viz. :
A. For full servico of ten years, one-fourth bf average salary.
B. One-fortieth of average salary to be added for every additional year.
C. For forty years' servace, full average salary to be paid: no addıtional grant for service over forty years. (c. 2.)
3 rd . Pensiuns shall nut be assigrable ur subject to seizure, (c. 14.)
(4) Officers entitled to pension.
lst. No person entitled to pension for years for which stoppage has not been paid.

2nd. Claim to name boing placed on the pension list to be based on five years previous service. (c. 4.)
3rd. All who have been employed as officers for a term of ton years or upwards, and who have reached the age of fifty-eight years, ars entitled to retiring pension. (c. 2.)

4th. Alsusuch as have been empluyed during thirty gears, whatever may bo their ago. (c. 3.)
5th. Alsu after ten year's service, z.ach as are unable to remain in tho service, owing to scrious injury or onfeobled health-incurred througli no fauit of their own. (c. 万.)

6th. Froin the age of eighteen, all years passed in teaching or as a nurnal scluvil pupil, shail bo ancluded in the years of service at the time of establishing the amount of pension. (c. 9.)
Tth. Former service counted befure the Act, provided the stoppases be paid for such period within five years after its sanction. ic. 10.)

8th. Fayments under jension fund of 1856 counted as payments under this Act. (c. 11.)
9th. Right to claim pension ns woll as to amounts paid to the pension fund to be forfeited by dismissal or resignation, oxcept for approved reasons, such as in the case of one temporarily accepting a position in an indepentent schuol and regularly paying the stoppage. (c. 15, 24.)
(5) Widous and Children of pensioners.

Ist. The widow of an officer-in receipt of, or ontitlod to claim, a pension, to be entitled to one-half his pension, (1) if married to hun sis years befuro has retirement or death in the service; (2) if still unmarried (c. 6, 7. )
2nd. Where no widow's pension is paid, children of officers are entitled to pension till the age of eighteen to the amount of widos's pension. Tha sum to be divided equally among all below the specified age-the share of those dying'or atlaining age to dovolve upen the others. (c. 8.)
(6) Dctails of working.

1st. Pensions to bo forfeited if unclaimed for three years and replacement on the pension list does not entitle pensioners to arrears. (c. 19.) ;

2nd. Full certificates required of officers, widows or cisildren claiming pensions or roversions of pensions. (c. 20, 21, 22, 23.)

3rd. This Act does not apply to tenchors already suporannuated. (0. 25.)

4th. No pension to be paid for five years after tho sanction of tho Act, and teachors dying within such poriod loso their right to ponsion, though their heirs may recovor the amounts pad tuin $i^{11}$ sion fund. (c. 26, 27.)

6th. Orders or regulations to onforce tho Act to be drawil up by tho suporintondont of public instruction. (c. 28).

## $\mathfrak{C}$ ontributions and $\mathfrak{C}$ orrespondence.

## algebrato factoring.

To the Editor of the Canada Schoul Jomrual:
Dear Sir, - Agreeably to the wishes of many teachors, I have ventured to fos pard to you for publication in the Canada Schoor Journal the following, so far as I know, original synopsis of the " Liave of Algobraic Factoring:"
I. An algebraic expression can be factored if it have some letter or letters, figure or figurcs, common to all or to some of its terms.
This, the mothod of "factoring by parta." or "taking nut the common factor," is troated at length in MoLollan's Algebra, pe. 70.82, and in Hamblin Smith's Algobra, pp. 48.44.
II. An expression can be factored providal it be, or can be, transformed into a trinomial-

1. Whose first term is a perfect squarc.
2. Whose third term contains factors, which
3. When added algebraically appear in the second term as the coefficient of the square root of the first term.
The typo of this trinomial is $x^{2}+x(a+h)+a b$.
Examplos of this, and of its oxtonsions, may bo found in McLollan's Algebra, pp. 67-78, and in H. Smith's Algobra, pp. 44-47.
IIT Provided an algebraic expression be or can hr, transformed into a complete $\boldsymbol{n}^{\text {th }}$ power of a polynomial (including bi and trinomials) it can be at once factored.
This includes nll squares, cubes, fourth powers, \&o.
IV. Provided an expression be, or can be, made the difference betuceen any two $n^{\text {th }}$ poucrs, it can be at once factured; or if it be, or can be, made the sum of any two odd powers.
This includes not morely $a^{2}-b^{2}, a^{3}-b^{3}, a^{6}+b^{5}$, so. ; but also the illasory forms $a^{4}+4 m^{4} ; x^{16}+8 y^{16} ; x^{4}+x^{3} y^{2}+y^{4}$. Oy anamples may be foumd in MuLellan's Algolra, p. 66 and pp. 74-7.e, and in H. Smith's Algebra, pp. 49-51.
$V$. If an expression be not reduced or reducible to either of the above, it may be factored -
4. By the application of the "Theory of Dixisors," vide MoLellan's Algebra, pp. 88-90.
?. By the methut of Triul Dicious, McLellau's Algebra, pp. 99100.

It may be added that many oxpreosions are mot with requiring the nse of more than one of these laws.

$$
\begin{aligned}
& \text { e.g., } x^{4}+6 x^{3}+27 x^{2}+162 x+729 \\
& \text { which }=\left(x^{4}+34 x^{2}+729\right)+6 x\left(x^{2}+\dot{2} y\right)-27 . x^{2} \\
& =\left(x^{2}+27\right)^{2}+6 x\left(x^{2}+27\right)-27 x^{2} \\
& =\left\{\left(x^{2}+27\right)-9 x\right\}\left\{\left(x^{2}+27\right)-8 x\right\} \\
& =\left(x^{2}-9 x+97\right)\left(x^{3}-3 x+27\right) \text {. }
\end{aligned}
$$

Again, also', such as

$$
x^{4}+12 x^{3}+50 x^{2}+84 x+38,
$$

which $=\left(x^{4}+12 x^{3}+36 x^{2}\right)+14\left(x^{2}+6 x\right)+83$
$=\left(x^{2}+6 x\right)^{2}+14\left(x^{2}+6 x\right)+83$
$=\left(x^{2}+6 x+11\right)\left(x^{2}+6 x+8\right)$.
Thankiag yua fur your kindaess in yublishiag this noto in your columns, I remain, yours siucorely,
D. F. H. Wilktns, B.A., Bac. App. Soj.,

Mathematical Master C. H. S.

## LOVELI'S GEOGRAPHY.

## To the Editor of the Canada School Journal:

Dear Sin,-Noticing the criticism of the maps in Lovell's geography by "Head Daster' (p. 39), I trok a look over the maps of South America in "Lovell's Advanced Geography," which ono would expect to bo a little in advance of some others. One
would naturally expect, at lonst, to find named upon the map all the places mentinned in the text, but I failed to find the names of 1 occan, 3 straits, 3 bays or gulfs, 4 peninsuias, 7 capes or points, 8 falls nud rapids, 12 lakos and In-oons, 17 towns or citios, 18 statos, districts or provinces, 18 islant $\mu$, sland groups or archipolagos, 25 table lands, plains, plateaux, llanos, and pampas, $26^{\circ}$ mountain peaks, 33 mountaln groups, cordilleras, sierras or ranges, and the amazing numbor of 63 rivers not vamed; in all 208 placos named in tho toxt but not namod in the map. Notwithstanding these facts, tho map contains the names of 1 capo, 1 lake, 1 fall, 4 rivers, 4 islands and 69 towns not deomed worth mentioning in the text at all. Then I looked at the map of Now York State in vain for the names of Mt. Marcy, Staten Island, Weat Point and Saratoga, the last throo of which places are perhaps as well known to the trayelling world as almost any three in any other State of the Union, and aro mentionod in the current literature of the day quite as often. Do you think that the books anthorizod are eritically examined by those supposed to do so? Comment is unnecessary -the defect is too plainly seon. Hoping this may bo of interest, I an yours truly,
W. S. Howfle,

Principal of Milford Public School.

## 娄ractical 꽁pattment.

## LANGUAGE LESSONS.

by aiss bertha sims.

We teach language lessons; we learn language lessons. Why? In order that our citizens, when called upon, may be able "to dofine accurately" tho terms-noun, pronoun, verb, adjoctive, ote.? Rattle off long lists of declensions, inflections, rules, and exceptions to rales? Conjugate verbs (regular or irregular) in all their moods and tenses; or analyse extracts from standard authors, "parsing syntactically the words in italios? No.
This is all very well in ito place, but let us be quite sare wo know what is its place. I am convinced that many of the inacourats grammatical constructions, most of the forms of expression which we call bad English,". (as if anything English were ever bad)-are owing to "a mistaken idea of our teachess as to the object of the science of grammar in forming a part of our pubis school course of study." In fact, "contributing, as it does, to the higher and reflective branches of the work, grammar, as generally studied in uar sohoulo, cuthld very profitably be deferred until the child acquires through langaage lessons a correct use of his mother tougue; since it is now concedod by our best philologists, that language'is seldom improved by the study of an ordinary text-book onigrammar. Languaga first-Grammar afterwards. Grammar through language; not language through grammar. Yes; what we must teach, and aim to toach better, day by day, is not the statistics, but the use of words. "Moro grammar is dry hask"今, but inords, swift, terse, burning words, let the children learn to store and use." We must teach speech, not the science of it merely.

Teach speech; free, lucid, exact. Let us have no more of the time-honored (?) expression, "I know, but'I can't make you understand." We ought to tell ; to be able, at least, to tell, for we have not, even in these days of froedom, reached that point of whioh Chas. Kiygsley speaks when he says an honorable member of parliament roundly declared-"That, in a free country, no one was bound either to understand himself or let others understand him."
Teach sp̈eech. Let the thought behind be given olearly, logioally, accurately. It may be a poor thought; it will be no poorer, no more meagre for boantifnl surroundings. A grand enduring thought it may be, stamped with the impress of Nature's own nobility. 'Twill be no less grand, no less endaring, enriched by the gracefal ministry of art.
Toach speech-poliqhed, ready, true, till in all the land, from
cottage to lordly hall, the laburer at his work, the munarch on his throne; whether it erme as the suft cailence of the humo lifo- the busy, stirring ham of market or exchange, the passionato outpourings of the heart, or the stern, resistless torrent of the forum,-our dear old Saxon tongue,-the sweetest, sublimest lauguage under heaven, shall rise, in one grand refrain-nuble, musionl, right. "So ghall the lips of the nation be filled with puwer."
How shall this be accomplished? What mothods must be used, and who must use them? \& auswer, to buth questions, many. Many mothode, many persuns to employ them. We oannot be responsible fur all mothods, we cannot control all persons, in the use of oven uno of them; but we can be responsible for our own, and we can see to it that we use them wisely and with defiuito aim. And first, "Thun must be true thyself, if thou the truth would teach," fur "Wo grow like what we contemplate." Then must the teacher himself, at all times and on all occasions, use currect languago. Parents and the publio shuuld, we must! I trust, however, that I blall not be misunderstood in my use of the words " correct language." Motakes have occurred. I had the privilege, while teaching fur ox months an western town, of the acquaintance of a lady who spuke what she called "correct language," "good English." You shall judge. She never "breathed," that is vulgar ; besides, any one cau do it ; she "nnbaled oxygen." Her friends "begaa," the "cummenced." I "lived" with my cousin, she "resided" with her mother, where she never " went to bed," but mysteriously " retured." While the rest of us "said grace" and modestly "ate " uur lunch, she "invoked the Divine blessing," and waguificently "partook of refreshment." Some day she will, no doubt, end ber days by "deceasing" with due pomp and solemnity. 'Tis a pity that all such "good English" could not be buried-I mean "interred" with her.

We will have many methods, but our mothod of mothods shall be to have each and every one adapted to ture especial wants of the child ; end to the stage of development of his intellectual faculties. How frequently energy is wasted here, and a child whose mind is but waking up to life and thought, only unfolding leaf by leaf towards fraition, is required and expected to evince in composition the fragrance and beauty of finished growth. Else he is "stupid," or "destitute of all imagination." So, to a great extent, he ought to be. In youth, it is not the diffusing, but the "assimilating and laying up processes that are still in oxcess." Let them lay up then and assimilate material, good, wholesome, sufficient material for present necessilies, and after life. 'Tis not the office of the bnd to fill the mission of the flower. Its all of life, is growth-growth, which a modern writer has defined to be "gradual increase by natựal processes." Natural processes! What are they?

Setting aside the consideration of minor details, the three great faculties of the mind, with the periods of the developments of which we, as teachers, come most in contact. are the Observant, Concep. tive, Imaginative and Reflective. Speaking broadly and generally, we may divide the ten grades of our city schools into three corresponding groups, viz. :-The firat comprising the three junior classen, the second the next four, and the third the remaining three. Of course I do not intend by this arrangement to imp'y that the children in the first group will be found to be prematurely observant, or in the third marvellously imaginative and salmly reflective. By no means. The boy of fifteen, who, being required to evelve from his inner consciousness sundry remarks on the sheep, stated that -"A sheep is an animal with four legs, one in each corner"-certainly was not either. It mast have been the samo boy, by-thebye, who, discoursing the other day on the sublime subject of pies, tonchingly remarked: "Piesis of three kinds, covered, crossbarred, and open; I guess I like the cross-Larred ones the best." But I must pass on rapidly, for there comes to my mind the effort of an-
other buy who, having wasted the hour allotted to composition in constructiug a series of "art studies" of the master, when time was called seized his pen, andenriched pusterity with the following couplot:-
" Time flying fast with rapid wings. Leaves one no time to do one's thinge."
By the observant, conceptivo and imarinative groups I simply mean that in the order named, and as a rule during the period of time that a ohild shoull pass through the grades of each, do hii mental faculties begin to awaken aud claim attention. Then (and I wuuld emphasize this atrougly, not only for the teaoling of language lessons, but of all other subjects) shall we do wisely, we whose duty it is to train the mind, the end of whose labor, " the attainment by each individual of all the porfection of which he in capalle;" we shall do wisely, I say, if we approach our work through the avenue Nature herself indicatos to ns. Portal after portal, gatewny alter gatoway, to the vast treasure house of the heart and brain, does this oldest of all teacters roll back before our gaze. Wisely (I can find no better word) shall we work, and moreover in certain hope of saccess, if avniling ourselves of each oppurtunity as it presents itself we bend it to our need, and cultivate throug : perseption, memory, conception, imagination, reflection and ge teralization, the whole round man.
A gentleman said to mea few woeks ago, "How delightíul it in to go out with children. Everything seems so fresh to chem." I think he mistook a little. It is not a question of seening bat of being. Everything is freph-everything. The ohild stands on the threshold of life filled with wonder and delight. Finite, yet with infinitude to apprehend. Nothing too small, nothing too great to be examined and accounted for. His punctuation marks are all exclamation and interrogation points, interspersed with periodsof sleep. "How prettyl" "What is it for ?" "Vhy?" Poor Mrs. Gargery evidently felt this keenly when she testily remarked of Pip, "Drat that boy! What a questioner he is. Answer him oue question, and bell ank you a dozen directly. Huita are prison ships, and people are put in the hulks because they mander, and rob, and forge, and do all sorts of bad things. And they alwaye begin by asking questions. Now you get along to bed."
It behoves us to "ask a question" jast here. How shall wo primary teachers best begin at the beginning, and through this earliest of all mental development, cultivate language in the mind of the child? The ans er comes in true logical sequence. "By extending his knowledge of object.. By carefully directing his attention to all that is within his power to grasp, and is worthy of consideration. By means of object lessons (not lectures) on form, color, size, number, qualities. By talks (not all on one side) about leaves and animale and birde." Nay more. Let us teach the littlo ones "never to lose an opportunity of seeing anything that is beautiful," for that "Beauty is God's own handwriting-s wayside sacrament." Teach them then, as citizens of the great commonwealth of nature, to look for this Divine impulse in subtle barmonios of wind and wave and wood. The "sunshine of the meadow," "the shadows of the forest," the rain shower, the snow storm, "winds wild with gambols."
A6k them sometimes to tell you of the pretty things they have seen on their way to or from school. At first you will find most of the objects come from store windows and kindred places. All products of art, man'a nature, yet surely they will urge towards the realm of nature," God's Art." Tell them stories, and make them re-tell yon, graphic in description, simple, wholesome, wonderfal. I heard a Prebbyterian minister once discoursing (that's what he called it) on the subject of children, in the course of which discourse he obnerved :- "It is deeply to be regretted, that even in these enlightened days so much of the valuable time of early
obildhood is frittered away, by mothers and others, in nonsensical nursery chymes and foolish fairy tales, such as 'Cinderella," "Jack and the Bean Stalk; and the rest, all of whioh are useless, and utterly frivolous, not to say positively sieful." He thanked God his young days had never been wasted "in the like." He looked like it. I "specs" he never had a mother, but "growed" like Topay, only he wasn't half so jolly, nor-poor man-" so wicked." I told my class "a positively sinful one" the next day, for fear that any of them should grow like him. Miss Martineau says that "children are clever in proportion to their state of happinese." The remark is worthy of earnest and deep consideration.

May I suggest bere two exercises in " compogition for primary olassen ?" They will be found applicable to either the first or second book clasees, and will add variety to the work. We select some object in the sohoolroom, say the stove;'; I write in large letters, the srove, on the board. Then I get from the class short, detached sentences describing it, placing each as it is formed; somewhat as fol-lows:-" It has fuur lege. It has a door. It is black. It is made of iron. It burns wood. It is oblong. It has a pot-hole." Now let some one draw the chalk through all the things that it has. Then what it dues or is; arrange each division in sentences by itself, thus:- "The stove has four legs, a door and a pot-hole. It is made of iron and is black. Its shape is oblong. It burns wood.' This can then be copiod down on slates. A picture may be made use of in a similar manner ; it having been placed before the olass, they may be required to write or print the names of all the objeots to be seen therein-an excelient test for apolling. Another day, this might be done from memory, or we may use it as we used the stove, analytically naming the different objects, then syntheti. oslly arranging in concise form in sentences. Again, let the teacher draw some object on the board, perhaps a house, and set the children to weave for it imaginary surroundings ; its eize, what it is built of, who live in it, what they do. Furming one of the best exercises for the development of language, this last plan will be found, at the came time, to add piquancy and variety to the fortile fancy, the woll-known " make bcheve" power of childhood and it is by the cure anil fosterng, of its toniler shoots that we pavo the way for a vigorous and full maturity in after life.
Try these, or better methods if you have them, but in all-by any and every means in our power let us encourage the children to. talk. Thus only can we discover the crrors of style, panctuation, or conitruction that negd correction. And this correction should be promipt, kind, unfailing; e.g., a child says "and he seen him do it." No need to branch of into the higher mathematics of the art of speech, just say quietly, with slight emphasis, "Yes he savo him do it well," and make him repeat the correct form.
If we can succeed in this manner in eradicating the more glaring grammatical errors in common use, and which certainly do not numbar more than twenty at the mont, we shall have done much to render our future work in language easy and pleasant. The child in the primary class baving been taught to exercise his power of perception in crery possible direction ; having largely exteuded his vocabulary, by hosts of words which are really as our testbookg have it, "signs of ideas," has yet apent his time (and rightly spent it too) chicily amid things real and tangibie; and he has seen sa much that is wonderful, so much that is itcomprehensible even in these tangible realities, that, with growing years, paseing from the known to the unknown, there dawns on his mind the conviction that there may be, that in frot there are-peoplesrealms of wovder, in short, "many things in heaven and earth not dreamed of in his philosophy." And so conception, the second of the intellectual facultier, awakens and turns towards the light.
We have now to deal with our II. group, and with the ohildren, giling I ghonld judge from the senior second to the junior fourth
inolusivg. Still keeping up the calture of the observation on the Ines already indicated, we may extend our work with the extending power of our papils. These can now easily be taught the principal parts of a sentence; can learn to form sentences in whole or in part, by supplyiug omitted subjects, objects or predioates. They can acquire by practice, simple rules for capitals and panctuation marks. Having been told short aneedotes of a miscellaneons character, they can reproduce them in writing. Give them the substanco of an ' imaginary newspaper paragraph, and see who will arrange it in the best style. And you can have enjoyable exercises in letter writing. Imagine you are anything or anybody, and conduct your correapondence accordingly. Having, selected a subject, firs some time after lettor writing has been commenced, to teucher should just write the letters on the board herself, under the direction of the class. The proper construction of a letter, i.e. the date, address, forms of opening and closing, can be given incidentally. I gaw a shost time ago a rather startling suggestion in an American school jourasal, to the effect that children might be required to write letterg'to animals. There oan be no harm in trying the experiment. Another good iden was to let them keep a written list of all the angrammatical expressions made use of by themselves, or common among the public generally.
All these exercises can be varied to almost any extent either with regard to matter or method; and it is hardly necessary for me to say, are best conducted in school, under the eye and sympathy of the teacher. Before passing to the III. group, let us pause to consider for a moment what our work thus far has been.

We bave sought--none know better than I, with what.f etuation of parpose, remitting energy, often Larried and in! arfect execntion-stiil we havo sought and will seek to develop power to observe and express; to conceive and express. We have used and guarded and strengthened tho early dawning, the playfal iofancy of that mightiest of all the powers of the mind-the imagi-nation-" the faonlty which aione invents and creates," whether in the child world, the domain of thnught, art, or human indastry:
We may now stand asite and leave to the higher classes of our schools, our colleges and universities; to our masters and proiessors, the pature work of the maturing mind.

It would be presumption for me, a junior class teacher, to offer to the high digntaris I have namod any suggestions of my own for the proper fulfilment of their task; yet, in tribute to the memory of one of the best teachers it has been my privilege to know, I should hike if they will permit me to describe the method pursued by our English master at school. I am sure he taught us well. How we learnt I know not, ouly we liked the process. We had. four lessons a week, each of an hour in length, and though he "made haste slowly," he found tume to accomplish mach. He taught us analysis and the rules of what is generally known as grammar, etymology, deligliting us the whinle with Archbishop Trench's "Queen's English" "anal "Stud: of Words." We committed to memory poems, extracts, verss. simile, metaphor, from the writings of our standard authors,-transposed poetry into proseand prose into verse. With him we made acquaintance of much of the pure and good and noble in the English world of letters. He told us of Chaucer, "Great Father of Euglish Poetry"-sketched the plan of the Canterbury Tales, giving to us, as I have never forgotten it, the story of "Patient Griselda."
We heard of Shakespeare and Macbeth, Dante and his Inferno, Addison, Milton, Wordsworth. We had passages from Dickens. Goethe, Ruskin, Thomas Carlyle ; pathos, humor, satire ; what not? Filled with it himself, he tuned our ears to catch " the lordily masio flowing from the allimitable years;" while together we wandered o'er the classic fields of ancient days, and dreamed again the dreame of the heroes and the gods. Homer-the Iliad-Troy.

Orpheus and Eurydico, Ulysses and Polyphemus, he told us all, with a rapt, dreamy, vivid description, that made tho whole life-liko and real-and whatever he told, whother it was life of unthor or Lis work, he required us to reproduce it in our own words and style, giviug us plenty of time for reflection and work. He taught much more besides-ofeography, histury, aithmutio-and always bore with all our shortcomings aud perverseness with such a tender, manly gentlences, that come what might, wo gave him that which I think is worth more than all elso between puril aud teacher-our respect.

And now I have done, and you ask mo "What will result from all this-this cultivation through every faculty of the whole round man ?" You know what Yougfellow says:-"Feeling is drop and still, and the word that floats on the surface is as the tossing buoy that shows where the anchor is hidden."
Those "tossing buoys"-paint them with every conceivable form of art, gild them with all the showy blaze of elocution and rhetoric. Then what? For thomselves nothing. A gleam, a flash in the sunlight-anchor indicators, that is all. These changing "anchors" hidden-where? We trust, where we havo labored and toiled and prajed that thoy might be hiddon, firm and fast 'mid all that is pare and good and lovely; in a strong unshaten faith in God and nature and the oue brotherhood of humanity ; in freshness and simplicity of heart ; hidden, firm and fast, in that affection which hopes and ondures and is patient ; in mauhood and womanhood; in strength and tenderness and that sublime pity which makes the world soft to the weak and noble to the strong, the eloquent pathos of the here and hereafter; in prayer and coarage and patient toil. So from these brown-handed children shall grow mighty rulers of state.

The pen of the author and statesman,
The noble and wise of the land,
The sword and the chisel and palette,
Shall be held by the little brown hand.

## OCCUPATION FOR YOUNG CHILDREN IN SCHOOL.

## BY A PKIMAKY TEACBER.

How shall we keep the little ones happy, busy, and ordorly? Happy, because childhood should be the embodiment of happiness; bayy, because little fingers were made to be busy ; orderly, because order is essential to all progress.
It is the part of wisdom to direct, not to suppress the forces of nature. Children, if well and strong, are full of animal lifo. How ahallt te use this activity to adrance education? When left to themselves, they aro continually secking occupation; their rivid imaginations give life to everything.
People have come to acknowledge that the method nature adopts muat be the best. A Being of infinite wisdom and lore certainly cannot err in His plans ! In tesching language, what is termed the natural or conversational method is being adopted with maried success. The kindergarten acknowledges this principle, and very beautifally provides for it. But it is an elaborate system, requires special training, is expersire, and demande an increased force of teachers ; and is, therefore, impracticable in ungraded schonls or in largo classes, which is the case in most of our schools. But cannot an approximation to the kindergarten be attained in said achools?
Sticks, blocks, beans, papers, wires, etc., are inexpeusive and are readily obtained; may wo not put them to good use in our schools by using them in a systematic, ibstructive and orderly way 1 As an aid to toschera in this direction the following lessons are presented hoping they may prove of some slight assistance:

## I.-stick exercise.

Provideench child with ton ahort sticks (about thesize of matches). These may be hept either in a small box for each child or in a large box, from which they may be distributed. It is well to hare a familiar conversation cuncerning the different objects uaed by the
children in school, so they may understand of what they are made, the uses if the materials, and how and Fhere obtsined. Begin with a talk abuit yood. Ask of what the sticks are uade, where they camo from, what kind of substance.
Develop the idea of natural by comparing with things that man makes, aspp:per, cloth, glass, ote. Let them find in the room all The naturil sulhstances or things that God made; then the things that man made. Refer to articles of food and whatever other things may suggeat themselves, until the children thoroughly comprehend the term natural. If the children are old enough, the term manufactured may be given ; if not use the simple definitions. The idea and rut the tern must be the prominent point.

Let the children name the various things made of wood ; firat, those in the room, and then any they may think of. The easy words may be writton on the board as a speling lesson. In school work every possible thing should be utilized; reading, spelling, writing and arithuetic may be brought in indefinitely.
Have two glasses of water; in one place a stick or a large piece of wood, in the other a marble, a small piece of lead, iron or stone. Let the children observe the result, and tell why. The terms finat and sink may be given, also light and heavy. Little or much may bo given in one lesson, as the time or ability of the pupils admit, always stopping before the interest flags. The teacher may now take a stick and hold it in a vertical position, ask the children to each take a stick and do the same. Ask some one to draw a line which looks like the stick as he is holding it. Let them find something in the room in the same position. Tell them we call this position vertical. Ask soma one to stand in a vertical position, hold slate or book in same position. Have the cleas repeat-I hold my atick in a vertical position-I hold my slate, etc. When this is learned, the teacher may hold the stick in a horizontal poai. tion, asking the children to do the same; then slanting and parallel, proceeding in the same manner as with vertical. One or more positions may be given in a lesson, as the teacher sees the children comprehend them. Each lesson should be preceded by 5 thorough reviem of the old.
In giving the lcsson on parat. lines, lesd the children to see that the lines will never meet. After each oral lewson have the children arrange the sticks by themselves, and copy the poitions on their alates.-New York School Journal.

## PENMANSEIP.

## BY PROFESSOR SHUTTUCK.

When I go into a school room the teacher shows me the beot copy books; I then ask for the porrest one. The teacher is to be judged by the pourest work he does. All teaching should aim at tho lowest, should come within reach of the poorest.
When in Pittoburg, I visited a school in company with one of its officers. He axid: "If it's in a boy to write, he will. If it's not, he won't." He pointed to a boy and said, "Teach that boy, and I'll believe any one can be taught."
This boy wal writing in a bouk having two rulings. His lettera alantod erery way, and touched neither top or bottom line; ho said he could do it no better. I told him I ranted him to do me a favor by writing a single word aud have the letters touch the top and bottom ruling. Inatead of one word I had found he had writ ten four lines. I said: "I told you to write but one." "You," said he, "I did, but I didn't like it, and wanted to make it betier." I told him to write one more and then bring it to the teacher. He did. She acked in astonishment, "Did you write that ?" He Wra proud of it. I merely pointed out a little thing for him to do, and he did it. Put your instruction within reach of the loweot.
A teacher noeds to impress on every pupil that the eye of the tescher is on him, the mame an if he was alone. Ho cannot actually seo overy child, but he can wee their work, and mark his ectimato of it, and corroct his errors. To accompliah this lot us take up the practical work of the ciastroom. A common fanlt of beginnert is to bear down hard on the pen. When in paraing along I soo this, I put on the top of the page 2 light mark $\mid$, meaning "writo lightor.'. If they do not touch the top or bottom line, I put two parallei linea. If the slope of the letters is not corroct, I put a alanting mark thus $\%$. If the letters are too near together, or too far apart, or if they are irregularly groupha, I put a crowe $X$. Itako their books at the ond of a rocital and note the charactoriatich. On the next day I akk of all who had a cortain mark (those alanting
wrong, for example) to stand up and look at their books. I aak them for their opinion as to whether the mark is right or not, as I admit my liability to err. Thoy are sensitive to this criticism. But mind, it won't do to bs too critical or find too much fault. I seek an opportunity to praise. When I see improvement in tho copy I make a mark at the botton. The same mark at the bottom at at the top means improved in that respect. Thoy.are qualified to find such marks.
The first thing is to hold the pon right. Tracing books are made for this. Their proper use is not to teach the formation of lettors, but how to hold the pen and hand, in going over the traciug. If you tell them how to do this, aud then tell then to write, they at once knuckle down to it with crauped fangers and hauds, trying to make a good letter. But first lot them use a dry pen until they can hold it easily, and briug his book into a position to euit the slant he wants to give. That is, train to hold the pen before writing with ink.

## ECONOMIC METHODS OF TEACHING.

a papze read before the college of frecertohs, lonvon, BY MR. D. NASMITH, IL.B.

When aldressing an audience mainly compssed of members of this College, and, consequently, of persons who have made the subjects of Education and Instruction as atndy, it is probable, and but reaconable, that I should be expected to state at the outset the real object of my paper. It is this:-I venture to think, that the vast ircreane in the number of the subjects of study, the most gtriking and charactoristic feature of this age, necessarily involves one of tro consequences. The schonlmaster who wishes to get and keep hir pupils up to the modern standard, must become a mere teacher, if not a pure conch, or new syatems of imparting information must be found, which, while enabling master and pupil to satisfy present conditions, do not involve the ascrifice of the benefits that naturally attached to the ayatem of what we may now call the Old School-a aystom which wan essentially educational, as distinguiahed from instructional.
Defoctive and objectionable as was that system, in that it not meroly confinod scholastic adrantages to the fow, but denied to that favoured fer knowledge of anything beyond the classics and mathematics, it is by no means clear that the system by which the old han been repleced is an unqualified blessiug either to the state or to the individaal pupil. The present system might, with no amall propriety, be styled the system of wholesale instruction.
Happily, most enlightened persons now adinit that a proper education and proper inatruction are the birihrights of every sub. ject, and that a state that doee not secure and enforce these rights, peglecta, if it may be so expressed, a primary duty to itself and to each of ita subjectr.
The question, however, still remains-What is proper education? What is proper instruction?
It cannot bo doubted that the answers to these quostions are most discordant; that, in fact, but few outside the profession of schoolmaster, and not a few within it, regard the two words as practically synonymous, and that the great mane, by the term "proper education" or "proper instruction," intend adequato instruction in the subjects commonly taught in the schools of the cluen and period to which they refer. The term, consequently, hau no positive, but a mere relative signification.
When need by one class reapecting themselres or their children, it means something widely different from that which they intend Then ased by them respecting parwns in anothor clase ; bonce the hament, not now unfrequent, thit the children of the poor are recoiving, at the cont of the state, an education equal to that enjoyed by the more wealthy, at their parente' charge.
I venturo to think that it in in the interent of the state, and therefore of the ratepayer, that the childron of the poor ahould recoive as good an education as the children of the most wealthy; but that it is unrowoonable, if not absurd, to givo them the anme instruction. The better the oducation, the bettor muat thoy be fitted for the battle of life, and the better able to do justice to themselves and othera, in whatover sphere of lifo thoy may happen to be. If by good, belter, best, when appliod to instruction, is noeant much, , norte, moot, it is poocible, it is ervon highly probable, that the comparative
pernicious. If, however, by good, better, best, when applied to instruction, is meant degrees of quality and not of quantity, then I vonture to say of instruction, as of education, the better it is, the better it must be alike for all.
It is the duty of the educator to develop native forces. It is the duty of the instructor to instil foreign elements. It is the duty of the schoulmaster to do both scientifically. To educate hus pupil, the schoolmaster must throw the burden of the labor upon the pupii. To instruct his pupil he should take, as far as possible, the burden of the labor upon himself. When the primary object of instruction is mental education, the burden of the labor should be adjusted according to the nature oi the particular subject dealt with as a means of educating.
Permit me to illustrate. It is desired to educate the pupil physically and muscularly. The machines employed are the parallel bars. The educator stands by, directs and watches. His knowledge enables him to dictate what the pupil should and what he should not do ; what will develop the muscles and what will strain them; what amount of labor can be endured with benefit, and the point at which the exercise, to be profitable, should cease. It is true that, by going through the exercise himself, the educator might show what he could not otherwise explain, but it is clear that no amount of physical labor on his part could develop a single muscle of the pupil.
Again, it is desired to instruct for the purpose pure and simple of instruction, i.e., to impart to the pupil information on a given subject,-c. g., the leadiug incidents in.the life of Nelson. In this instance, the pupil becomes the practically passive recipient, the labor is taken upon himself by the instructor. By skilful arrangemont oi his matter, aud by a happy mauner of handling his subject, he laya stress upon the more important features of his narrative, and passes lightliy over the less impertant though necessary links; and by just modulation of voice, and occasional change of position, he $k$ jeps tho pupil's mind from सandering, absorbs his attention, and leaves upon his memory a lasting impremsion of the great hero.
It is true that he might have given the pupil a life of Neloon, and told him to read it, but it is clear that that would not have been instruction. Is it not equally clear that the same amount of information and depth of impreasion could not have been acquired and made in the same time by any other process?
If these illustrations are apt, it is ebvious that, for the purpose of educating, the labor must bo thrown upon the pupil; for the purpose of instructing it should be taken apon himself by the tutor. That being so, it becomes necossary to determine the true province of education, and to diatinguish it, as accurately as possible, from that of instruction. In other worde, it is necessary to determine where tho schoolmaster should be active, where essentially passive.
I assumeit to be admitted that no aystem of training can be good which ignores or discards the doctrine of equilibrium-that is to say, which overlooks the fact that each papil has a phynical, a mental, and a moral nature (I use the word moral for the want of a botter term), or which attempts to improve or develop eitber of the three at the expense of, or to the neglect of, another or others.
Further, I take it to be admitted that the notion of toaching drawing, because the pupil happens to have a good ese, or music, because thero happens to be a good ear, is a thing of the patt,a dull and stupid confusion of the province of the school, which is to develop those senses and faculties that are defective, and the question of the selection of the proper profeasion or business to Which the child shunld be ansignod, which, if intelligently done, must necessarily bo determined by regard to the natural abilitios and tendencies of the youth
The drilling master, the music master, the drawing master, the lang ange manter, the mathematical mater, the orderly, may each be perfect of his kind ; but neither of these, nor all combined, constitute the schoolmaetor. It is his duty to uee each and all of theeso as instruments, each in its proper aphere, and good only as oach zorves to work out the schoolmastor's peculiar problem, the equal dovelopmont of each pupin.
As the harpor tunes his harp before ho begins to play, or as the tuner tunes the piano before ho leares it to be played upon, and an each gaugen tho atrongth and quality $\mathfrak{F f}$ the instrument, and tight. ons or loosens, as neod may be, in order that equilibrium may exint consistent rith the capacity of the particular instrument ; $n$, I take it, is the aim and high art of che echoolmaster, whose duty it in, not to stuff a given amount of information into his pupil, but as far as posaiblo to bring iato equilibrium, not merely the phyaical, the montal, and the moral elements, but the various sonses of each pupil.

For tho purposo of my argument, I will assume that duo regard is paid to the physicul, to the mental, to the moral training of each pupil, and to the due development of each of his senses. I thorefore necessarily nssume that nut of each working school day two adequato purtions of time are allotted respectively to the physical and moral training, and that the working hours remaining for tho mental york aro propurtiunately curtailed.
The dotails of physical and moral develepment I pass over as fureign to the imuediate ubjects of this paper, - with, hewever, two observations, viz. -1. So far as I know, nuthing approaching a rativnal, much less a scientific, system of moral traiuing oxists in our schools. Murality and religiuus creed or dogma are commonly confuunded. Religivus instructivu is cursidered sufficient to satisfy the requirements both of religion and morality. 2. Mental work appears to be fast driving the physical out of school hours, oven in schools where its impurtance as a branch of school work was formerly recognized,-a fact sufficientin itself to rendor it at least donbtful whether the present teudeucy is wise.
If when, sume tweuty years ago, an admirable idea was started, -I refer to the creation of volunteer cadet corns, -an Act of Parliament had been passed making it compuisory to devoto a certain number of hours per week out of the ordinary school hours of every buy, schuol to military drill, superintended by a competent drill sergeant, schuolmasters wuild have been pleased. the boys would have been delighted and greatly benefited, and the state would at this moment have had a large army of at least half-made suldiers, in addition to the regular forces, the volunteers, and militia. The mistahe then made, as I thon ventured to point out, was fatal to the success of the scheme. It was to take thedrill time ontside of the ordinary drill huurs. Boys are boys, and should be boys; they want their play, and ught to hare it. Nothing could be worse for the future interests of this country than to make then effeminate, or mere intellectual machines.
If we admit, as we necessarily must-firet, that no man can knuw every thiug, and, secundly, that there are many subjects, no ono of which can over be thurunghly mastered by any one, be his life ever so long, his energy ever so great-it appoars to me that we'cannot avoid certain consequences. They are theso:-If per fect bnowledge of one subject cannot bo acquired when the whole time and energy is devored to it, in proportion as the number of subjects is increased, the gussiblo kuumiledgo of each must decrease, and the cunsequent talue "of the knouledyo acquired must corres pondungls decrease till ultimately it becomes practically worthless as a matter of huviledge, thuugh the universal smattering may
hare been the resultuf long and laboriuns labor. "Jack of all trades and master of none" is an old saying murthy oi modern consideration. It was believed in, in tho days when Englishmen preferred guality to quantity-in the days, now gone, when the British brand alwass fetched the lung price abrond.

What more otjectionable individual can be met with than the would-be omniscient-the man of reriews, short essays, newspaper cuttings, who, thus crammed. feels himself master of the Land question, or the Eastera questiun, or more than able to settle the lrisk gr any other difficulty . Is it not mell to take heed lest mo breed and multiply this hateful brood?
If we ndmit that the primary object of the educational cestablishment, be it schoul or college, is not to complete education and instruction, but to begin it, not to exhaust powers, but to derelop and strengthen them; not to satisfy wants, but to create thoso of a wholesome chancter ;-we necessarily admit that tho education given, and the instruction imparted, aro given and imparted as means to two distinct ends: the lirst being the fitting of tho pupil to counmence life ; the secoad, and far more important. being the fitting of him to do justice to himself in life.
To fit him to coummence life-that is, to pass ont of the educational establishment into the world in the particular sphore of life then open to him-it in cbvious that ho must be made, if I may so express it, fashionable accurding to the fashion of that sphere ; for hocannot be at his ease in that sphere, nor can he benefit by the adrantages peculi.ar to it, unless, at the start, he is more or less like others in it.
If, therefore, it is tho fashion of his class to know a little Greek and Latin, ho ahould be taughta littlo Greek and Latin. If it is tho fashion of his class to know a litlle Fronch and German, he should bo taught a litile French and German. If it is tho fashion of his class to content themscives with the three R's, he should at lesst bo taught tho three R's. Thero is, of course, no objection to his being fashionablo among tho fnshionable, prorided alwasa that in this, as in ozlaer respects, excess of iasbion does not render him
ridiculous. We all know how little wo know. Wo all know how to excuse oursolves and others, when the expected standard is not reached ; but wo despiso those who, aping greater things, show like shortcomings.

Upon the principle, and upon that alone that it is the fashion to do so, can the fact of teaching seven, eight or more difierent subjects concurrontly bo justitied. At least, such is my opinion. It is now the fashion to pass examinations. I venture to say that is a good fashion. It is the fashion at present to include in those axaminations a vast number of subjects I vonture to think that a bad fashion. Be that, however, as it may, so long as the examinations and the subjects of examinations are in fashion, they must bo passod, or the pupil and schoolmaster must lose caste.
Am I, or am I not, justifed in saying, that to fit the pupil to do justico to himself in life, he should bo taught, whilo at school and at college, and while preparing to pass his oxaminations, that the information ho acquires, or cian possibly acquire, at either, is a thing of but little value-a matter of ninor importance ; and that the great object of his training is, not that he may acquire knowledso of a particular subject or subjects, not that he may pass this, that or the other examination, but that he mav learn how to learn and hors to work that he may become able to learn or to mork intelligently at any subject?
If this suggestion is sound, the course to be pursued with him, so far as practicable, regard being had to the satisfying of the first demand in point of time, appears obvious. It is to dovelop observatioh, memory, reason, industry, mnderation, and, above all, thoroughness. These are the latent forces which, if develuped, give strongth and the consciousness of power suticient to induce and warrant effort in any direction. But how can thoroughness be mado possiblo when a number of different subjects is demandod? The problem is this:-How can we educate and instruct so as, at one and the same time, to satisfy the demands of the immediate and of the more distant future?
It appears to me that the first thing to be done is to examine, and if possible classify, all the suhjects of study. Thoy appear to bo capable of divis:on into three classes, viz. - -

1. Subjects that aro essentially educational ; e.g., ronding, writing, arithmetic, including the higher branches of mathematics, drawing, and the like.
2. Subjerts essentially instructional; eg, history, geography, philosoply, literature, and gencral iuformation.
3. Subjects that may fairly bo styled semi-educational and somiinstructional ; e g., languages, chenistry, music
It is imp nssible to louk at the first class without at once seeing that the burden of the labor in that division must be undertaken by the pupil. Readiug, writing, and arithmetic cannot be done for him, though his tutor may materially lighten his labor by suggestion, example, and especially by marshalling his work, and placing it before him in the order in which it shuuld bo undertaken.
It is equally clear that, in the ciss of the subjects of the second class, the burden of the labor can, and I sugges' should, be taken upon himself by the tutor. My proposition is, that all subjects properly belonging to this class shonld bo taught orally, and, where possibln, illustrated by maps, charts, models, and diagrams. My Chronometrical Chart of the'fistory'of England will be my illustration of my viow as to the proper method of teaching subjects, of this class. Whero thoy are not taught oralle, they might be mado the subjects of reading lessous. To stuff their leading facts and propositions into small bouks, and compel the pupil to learn them, is to fill him with husks, not plensing to the tiste, that aro difficult of digestion, and profitless in nassiniilation. Such books contain the dry bones without the comels flesh or vital spark of history. What is truo ní books of thiskind upon history is no less truo of books of like kind upran the other subjects. I must not, howerer, bo understood to suggest that books of this kind are bad; on tho contrary, they aro, in my opinion, most useful. It is not thoir use, but their abuse, against which mp obsermation is directed. That abuso is the treating them, or allowing them to be troated, ns the source, tho beginning, and the ond of historical or scientific instruction, instoad of regarding them so mere indices.
In the caso of snbjects of tho third class, it appears to mo that tho labor can and should bo dirided, and that by such a division tho respective duties of educating and instructing may bo discharged with equal pleasure and proft both to teacher and pupil.
With your permission, I will illustrato my meaning by stating, in distinct and separato propositions, the basos of my practical Linguist scrics. Where it appoars necossary, I will commont upon
the proposition ; othorwise, it will be allowed to speak for itself. Thoy are theso.:-
I. The vocabulary of every languago contains a vast number of wurds that aro practically ueeless
(a) To any particular individual.
(b) To the community in gencral.

A single catalogue of a library, a museum, or even of a florist. will not fail to satisfy the most incredulous that there are many words which are of no practical utilhty to him. Half-an-huur spent in turning over the pages of a good dictionary wall suffice to remuso doubt, if any exists, as to the fact that many nords are practically useless to the community in general.
II. The vocabulary of opery language is divisible into two dietinct classes of words ; viz.:-
(a) Words without which it is impossible to speak or write upon any subject whatever.
(b) Words which are ouly used upon given occasions, or under particular circumstances.
The former may be termed the permanent vocabulary, the latter the auxiliary vocabulary; or, to be mure precise, the lattor are the auxiliary vocabularies, for words of this class are divisible into a series of distinct socabularies.
The auxilhary vocabularies are all composed mainly, though nut entirely, of substantives. The permanent pocabulary embraces all words other than those that belong to the auxiliary vocabularies.
This propostion indicates the superior importance of the words of the permanentover those of the auxumary vycabularies, or either of them.
III. All words have a numerical value. The numerical value of the words of the permanent rocabulary is individual, that of the words of the auxaliary rocabulary is generic.
For example, the words "and," "the," "some," "I," "shall," "will," " you," " she," "has," are words belonging to the permanent vocabulary, and are obviously of hugher numerical value,-i.e., are used more frequently, whether," in speech or mriting, than "come," "call," "stop," "wait," "therefore," "afterwards," "long," "find," "agree," which in their, turn are obviov sy of higher numericul ralue than ""offensivo,"" defend," "entail," "connect," "avert," "nttract," "cultivate," "suburdinate," "appreciste," also words of the permanent vocabulary. It is also obvous that the numerical value of each of these wurds is individual ; that is to say, if the value of the word "and" is represented by the number 40, that of "come" may be represented by 20 , that of "offensive" by 1 ; or, in other words, for everg use of the word "offonsive," the word "come" 1 s used 20 times, tho word "and" 40 times. Theso figures are, of course, given solely by way of illustration.
In the case of the words of the auxiliary vocabularies, the numerical value, on tho other hand, is not malvidual, but generic; e.g., "bread," "meat"" "coffe," "tea," "plate,""kimfe," are words of the auxilary vocabulary of the meal table ; and "rlubarb," "castor oil," "pllf,"" "plasters," "leeches," "blasters," are words of the auxiliary vocabulary of tho chemist and druggist.
One word pecular to the meal tablo is practically used as frequently as another, and may bo sad to be of equal numerical value. The samo may be sand of the words yeculiar to the chen ist aud druggist. But any one, the druggist hunself excepted, must be sn unhappy mortral who uses the one vocabulary as frequently as he does tho other.
IV. The numerical value of words may bo ascertnined, if not oxactly, at least approzinatels.
Thus, we may take a book, and, beginning at the beginning, writo down oach word upon its first appearance, and for every sub. seguent appoarance place a tick neainst it. It is clear that the Ford with the groatest number of ticks is the word of highest nunuerical value in that book, and the words without a tick the nords of lowest numerical value. A second, a third, or any number of books may bo treated in the samo manner. If they are dissımilar in character, the relative value will necessarily differ to some extent; but, by adding the total numerical ralue of nny given Ford common to all, and diriding it by the number of the books used, the numorical value of that word in thoso books, taken collectively as well as individually, may bo ascortained.
V. Tho learning of tho individual words of any language, Fhether to speak, read, os mite them, is a puro effurt of the momory, sonatimes, though comparatively rarely, aided by comparison.

This proposition needs no present comment beyond this, that it muat be in the inteest of the learner to learn tho words he has to learn in the order of their valuo to him.
VI. Every language has a methed of combining mords pecular to itself, though more or less common to other hanguages of the same stock. Ita pecular method of combination may be styled its mould.
The next proposition, and the examples given undor it, will illustrate this.

VIL. The mould of any fureign languago may be learned, withuut knowledge of the words or granmar of that language, and is learned must rapidly, by conpparison with that of tho native or some other fureign lauguage. The peculiarities of the nause language cannot be learned, wathout comparison of its monld with that of a foreign language.
Thus tho Euglishman says, "We are thirsty;" the German says, "We are thirsty ; "the Frenchman says, "We have thirst." The Engliehnan says, "I do not know ; " the German says, "I know it not ; the Frenchman says, "I not know." The Englishman sags, "How 18 your father ? He is not very well;" the German says, "Hove finds hmmself, your Sir Father! Ho finds hmmelf not very well;" the Frenchman says, "How himself carres $\lambda_{\text {aster your }}$ father ? He not humself carries not very well."
VIII. A thorough practical knowledge of a langunge does not necessarly involve any theoretical grammatical knowledge of it .
We learn to speab,. read, and write, as we learn to walk, run, or jump; and as by practice we may walk, run, or jump well, without knowing why, wheu we jump and thus leave terra firma, we do not go straight to heaven, so may we speak without being able to explam the grammatical structure of a sugle sentence.
I will not say it pusitively, but I have a nution, that if all the best speakers and writers that we have, unless they happened to be somerslat young, were examined in English grammar by a sharp Buard School boy, most of them would be plucked. How could it well be otherwise, when in the school-days of persons now of middle age, Enghish grammar was left to the vulgar, by those who considered Latin gramuar the proper thing for gentlemen, and French for ladies.
IX. The accidence of a language can be tabulated. Each form has a numerical value.
To chop the accidence up into small pieces, and to distribate those pleces chroughout the numervos payes of a buok, is to treat accidence as gecaraphy is treated by thy makers of dissected maps, with this difference. The grammarian has all the disad santages of dissection, without any of ats advantiges. He takes his litule block, looks at it, exammes $1 t$, even learns all that is upon it. What then 1 it 18 part of a great whole, but he knows not, he sees not that whole. The geographer is better treated ; he has his picture of the wholo country. Ho sees where each little piece tits in. Uught nut the accidence of each language to be tabulated. printed in bold and distugushang type, and suspended on the wall, that the whole may bo visible at a glince? 1 think it should.
X. The nyutax of a language cannot be tabulated. It must be stated in rules, with therexexeptions. These rules, humerer, are capable of contrast or comparison with the correspundiog rules of the syntax of any other language.
From these ten proposunous I make the following dednctions:-
First-If the numerical value of ndividual words can be nscertaned, it is obvious that words should bo learnt in tho order of their numerical value; it is nis, obviuus that they should be cominned, or formed ints plirases nad sentences, in the order of therr numerical value; it is further obvious that, if so combined, the mould of the hyghest numerical salue must first conse to the surface, and others follow in its wake in the order of their respectwe numerienal salue, and that the particular form of the necudence of the language and the particniar rules of its syntax must be developed and presented in tho samic order.
Secondly-If words, moulds, accidence, and ayntax are respectuvely. whether reparately or collectivels, learned and explained in the order of their numerical value, the language must to learucd more rapidly than is possible by nny other modu of $\varphi$ rucedure. If wurds, moulds, necidenco, and syntax are dealt with in their acual ac lity, no labor is speut in venn, and time and strongth are saved for other work.
It need hardly bo said that the pupil caunot do this work of marshalling and classiffugg for humself, or that ench-individual toachor cannot do it for him. It must therefore, if at all, be dono
for buth by sumu third person. In my "Practical Linguist" sorieb, I have undeavured to work buth fur pupl and tuachor, and by taking labur upon myself, have onduavored to reduce the labur of each to the minimma. 'L'u secure this und the fullowing mothod has been adopted, viz. .-
I. The words of the pernanent rucabulary have been arranged in the order of their numerical value, as ascertained by actual counting.
II. The various forms or monlds of expression have been ovolved in the samo order.
III. The various forms of the aceidence and rules of syntax havo also been brought forward and dealt with in the same order.
IV. By accidence moro perfectly than is usual in grammars, and by recourse to various types, the wall map of which I have spoken has been approximated as closely as was possible.
V. By contrasting each rule of syntax with the corresponding rule of English syntax, it has been sought to render cach rule easy of appreciation and retention.
My aim, in the case of languages, has been to draw a broad line between instruction and education, by making the instruction as simple as possible, and at the same time placiug in the hands of pupil and teacher an efficient edncational instrument.
By this system the eyo is educated by cluse observation of individual vords, and by contrast and comparison of accidenco and rules. The memory has its fixed and assurted work; the essence of the system is that constanc repetition which secures the making fast of each step as it is taken. Reason is appealed to in the contrasted rules. The ear should be educated by close observation of the teacher's "prounnciation, which, I venture to say, should never be attempted by any one other than an educated native of the country the language of which is in question. It is ridiculous to attempt to teach pronunciation thruugh the eyo. It is next to impossible to meet with any one whu can speak a foreign language with the accent of a nativo.
In conclusion, as to languages, permit me to say that I rejoice to hear that it is proposed to introduce the study of French and German into our Board Schools. Independently of tho social and commercial value of these languages, which is daily and rapidly increasing-which alone appears to me a sufficient reason for the teaching of one at least in every Board School, as a means of enabling the poorer classes to take situations in our commercial nffices, now but too frequently filled by Germans-the study of foreign languages can undoubtedly be made an important instrument, if not the most periect instrument of education.
As instruments of education, and as satisfying the fashion oi certain sections of the ermminit. Latin and Greek are loubtless of value. Speaking. hewerer, for imy self, I will say that I wish it had been the fashinn in my schonl-days t" nakir. French and German the instruments of my edncatinn, and to have given me instruction in subjects that must necessarily have pr ved usoful throughout life.

As we cannot learn all thinge, it seems hut common sense to learn subjects as well as wrds in the nrder of their actual utility. Being able tn"speak, real, write, and connt, nr while becoming able to do so, and having snme notion of the size nif the world and our whereabouts upon it, nue wruld suppese that, as our bodies are to be always with is in this llesh, and we hope our purses also, that our instructors would teach us something about animal plysiolony, hyericar, disease, and pnlitical econon:y. Being governed by and sulject $+n$ the laws of the land, it would not be unreasomable in give 18 , when young, some notions of rights, dutics, and obligatirns, rif crimes, and breaches of obligations. But it is not se considered. In the wisdom of our rulers and masters, they say-For those things enquire of the doctor and lawyer; to us you may come for classics, English language and literature, French, German, Italian, Spanish, Hebrew, and Oriental lauguages; history, Fhether scriptural, ancient, or English; geography, mathematics, and natural philosophy; statics, dynamics, hydrostatics, astronomy, and optics; physics, chemistry, natural history, book-keeping, moral and political philosophy, drasing and music What moredo gou want?

## VERE PERTLNENT QCESTIUNS.

Th. Eedrec Teaches asths. ' Whe are the crammers, the ' rounue teachers, thu 'fussils, the 'parrub trabuers, the 'hambugs,' the 'sham3,' the 'cheats,' the 'fratuls?' Thoy alrags re-
ceive their roward at educational gathorings ; thoy are frequontly mentionod in oducational journals, yot we have nover met one, male or fomale, who was wiling to admat that ho was meant when one of the abovo-named classes was mentioned. It is always undorstood that thoy are the toachers of somo noighboring county, caty or atate-' they are none of us.' Why do not scme of those speakers and writers say, 'Thoy aro 'routine" teachers in Buston,' "they are a set of "fossils" in Chicago,' "they are "shams" in Louisville,' then we should send our reportor into their quarters for invostigation. Quit croaking, or locate tho disease."
The editor of the Teacher is answored in his own journal by his correspondent D. H., who says "that over sixty per cent. of the public school teachers of the whole country are moro rucitation hoarors, and ono half this number are failures even in that effort. What do thoy do ? Thoy simply hear (?) the spelling, reading, arithmetic and geography classes recito. What do the children recite? In spelling thoy spell orally or otherrise-it makes no difference-words, words, words, a large percentage of which they cannot define and never will have occasion to use. In reading they pronounce the words at sight (or aftuc making a few blunders), being wholly unable to understand what they havo read, to say nothing of the manner of delivery. In arithmetic they commit definitions to memory without being able to make any application of the terms defined; solve (?)-Work the examples by rule, having no power to make even a remote practical apphcation; got the table by heart, and, in addition, devote no little part of the time to the solving of wonderful puzzles presented by the ' master.' In geography they can tell you where IIts. Hecla and Vesuvius are, but cannot tell you whether thoy aro land or water, a city or country; they can name and locite risers and lakes without number, but can tell you nothing of their valuo to man. And on Friday afternoon, possibly daily, can march to a designated place on the floor, fuld their arms and toe the mark, and at the aame time present muddy clothes, dirty faces and unkempt hair, and "the half has never been told."
If what D. H. says is true, it is not difficult to locate the disease affecting our public school teachers. Are there no "crammers" in Louisvillo? Blessed city ! very near the educational hesven if thero are uone. That they are found in Boston, the very hub around which all "culture" and progress revolves, we know. They are numerous in Now Yord City and Brooklyn, and it is said that they abound in Philadelphia. We could, on a pinch, find one or two good specimens in the State Normal Schools of Now York. We conld pick up some beautiful old fossils, well preserved, in the carboniferous formation of Ponnsylvania, and from the broad prairies of the Contral States wo could collect quite a respectable cabinet. It is one peculiarity of a "fussil," a "cram," a "parrot," and a "cheat," that he never believes ho is one. His personal identity is lost, and he insists he is somebody else. Locate him, and he isn't there. Pin him, and presto, you don't seo him. You couldn't expect a thief to confess he is one. When placed on the witness stand, ho will swear on a hundred Bibles he never stole a pin or anything else, althuagh ho was canght in the very act. Catch an old "crammar," an old "alphabet teacher," an old "grammatical grind," in the very act of uttering his counterfeit coin, and he will swear by all the stars that he always taught in accordance with Col. Parker's most approved Quincy methods. This educational disease is very curious, very. Our Association declaimers will fairly rave over the prevalence of. "cramming," and then go home and cram, crain, cram, from September until July, ns hard as they can, and then go to the Summor meetinge and deciare upon their word and honur that thoy are educational saints. From all educational bypocrisy, deliver us :Barmes' Educational Monthly.

## HOW TO.SAY IT.

Say "I would rather walk," and not "I had rather walk." Say "I doubt not but I shall," and not "I don't doubt but I shall."

Sas " for you and me," and not "for you and I."
Say " whether I be present or not," and not "present or no."
Say " not that I know," and not " that I know of."
Say "return it to me:" and nut "raturn it back to me."
Say "I soldum see him," and nut "that I seldom or ever soe

Say "fover frionds," and not "less friends."
Say "if I mistake not," and not "if I am nut mistaken."
Say "game is plentiful," and uot "gamo is plenty."
Say "I am weak in cumparisun with you," and nut "to you."
Say "it rains very fast," and not "vory hard."
Say "It is pritaitive senso," and nut "primary senso."
Say "ho was noted for his violence," and not that "he was a man notorious for violence."

Say "thus much is true," and not "this much is true."
Say "I lifted it," and not "I lifted it up."

## HOW HE'D DO IT.

Several mou were gathered at the door of a blacksmith shop on Cass Avenue, Detroit, the other morning, when a school boy not over nine years of age came along with tears in his oyes, and one of the mon asked-"What's the matter, boy-fall down?"
"N-no, but I'vo got a hard 'rithmetic lesson, and I oxpect to get 1-licked!" was the auswer.
"Let me see; I used to be a king.bee on fractions."
The man took the book, and turned to the page and read:
"Rune l.-Find the least common multiple of the denominators of the fractions for the least common devominator. Divido tinis least common denominator by each denominator, and multiply both terms of the fractions by the quotient obtained by each denominator."

He read the rule aloud and asked if any one could understand it. All shook their heads, and he then continued:
"Well now, I think I should go to work to discover the least uncommon agitator. I wonld thon evolvo a parallel according to tho intrinsic deviator and punctuate the thermometer."
"So would I!" answyered overy man in chorus, and one of them added: "I've worked 'em out that wny a thousand timos."

Not one of the men, all of whom were in business and had made monoy, could even understand the working of the rule, much less work examples.by it, and yet it is expected that a nine-jear-old boy should go to the blackboard and do every sum off-hand.-Detroit Free Press.

## CALCULATING BOYS.

When Bidder was ten years old he answered in two minutes the following question: What 13 the interest of $£ 4,444$ for 4,444 days at $4 \frac{1}{2}$ per cont. per annum? The answer is $£ 2,43416 s$. 5 idd. A ferw months later, when he was not yet eloven years old, he was asked, How long would a cistern ono mile cube be filling if receiving from a river 120 gallons per minute without intermassion? In two minutes he gave the correct auswer-14,300 years, 285 days, 12 hours, and 46 minutes. A jear later he divided correctly in less than a minute, $468,592,413,504$ by 9,076 . I have tried how long this takes mo with pen and paper, and after an incorrect result in one and a quarter minute, went through the sum again, with correct result ( $51,629,838$ and 5,875 ovar), in about the same time. At twelve years of age he answered in less than a minute the question, If a distance of $9{ }^{3}$ inches is passed over in a second of time, how many inches will be passed over in 364 days, $\dot{5}$ hours, 48 minutes, 55 seconds? Much znre surprising, howaver, was his success, when thirtcen sears old, in dealing with the question, What 18 the cube root of $897,339,283,974, \cup \cup 2,1531$ He obtained the answer in 21 minutes, riz., 364,037 . I do not beliove one arithmetician in a thousand would got out this answer correctly in less than a quarter of an hour. But I confess I have not tricd-the experimont, feeling, indeed perfectiv ratisfied that I should not get the answer correctly in half a dozen crials. No date is given to the following caso :-"The question was put, by Sir William Herschel, at Slough, near Windsor, to Master Bidder, and answored in one minuto. Light travels from the sun to the oarth in eight minutes, and the sun being $98,000,000$ miles off (of course, this is quito wrong, but 60 years ago it was near enough to the accopted value), if light would take six years and four months travolling at tho same rate from the nearest fised star, how far is that star from tho earth, reckoning 365 days and six hours to each year, and 28 days to each month ?' The correct answer was yuickly given to this plessing question, viz, $40,633,740,000,000$ milos. On one occasion, wo learn, the proposor of a question was not astisficd with

Bidder's answor. The boy said the answer was correct, and roquested the proposer to work his sum over again. During tho oporation Bidder caid ho folt certain ho wes right, for he had worked the ".jestion in another way, and bofore the proposer found that bs was wrong and Bidder right, the boy told the company that ne had calculated the question by a third method.-Belgravia.

## R JLES FOR TEACHING THE USE OF LANGUAGE.

Primary language lessons, if taught in the true spirit, will develup thought, the power of corruct expression and observation, and prepare the way for a very successful and profitable study of the analysis und grammatical forms of our language.

The following rulos should be carefully followed:-
I. Proceed slowly. A little well taught is far better than much half understood.
II. After each lesson, require pupils to oxpress their thoughts in their own langnage.
III. Be certain that the meaning of each word used is understood and its spolling learned.
IV. Read freguently an interesting story. Require it to be repeated in the pupil's own words, and then written. This exercise will call out tho power of expression, impart self-confidence, discipline the memory, and give the teacher an excellent opportunity to make corrections.
V. Punctuation and the use of capital letters may be easily taught by example, aided by a few simple rules. Children learn that many things are right before they can tell why.
VI. The correct meaning of words is best taught by leading children to properly uso those they understand. Many more can be added from time to time to the stock as thoy need to use them.
If these rules are followed, teachers cannot fail to be successful in teaching the use of language.

## THINGS TO LEMEMBER.

Remomber, 1st, that in teaching, as well as in any other business, you must have a good deal of capital invested to obtain large proceeds.

2nd. Remember that your capital is your health, your education, your library, your determination to brighten and improve yourself, and your power to teach others.

8d. Remember that every good basiness man seeks to enlarge his business ouch year, by constantly investing more capital.
4th. Remember thiat good business men watch the market; they mark what others are dong, note how they do it, and take papers aud journals that give specific anformation. You will be very shartsighted if you do not imitate their example.
5 th. Business mon often meet and consult-they haveenciaceres, boards of trade, hoid farrs, etc. Teachers who do not pursue a similar line of conduct have themseives to blamo when they fail.

6 th. Remember that your work is a business in many respects, and must bo conducted on basiness principles; that it does not consist in keoping jour papils still, and gotting replies to questions, many of wheh you conld not answer yourself.

7th. Remember that your work, if done aright, will make you a competent man or woman; it will, like any business, give you a better judgment, more information, and a wider range of thought. 8th. Remember that you ought to bo more deoply interested in it overy day, as overy business man is in his business.-Ex.

## THE LORD'S PRAYER.

When the eldor Booth was residing in Baltimoro, a pious, urbane old gentloman of that oity, hearing of hiswonderfal 1 ower of elooution, one day invited him to dinner, although always deprecating ihe stage and all thentrical performances. A large company sat down at the tahle, and, on roturning to the drawing-room, one of thom asked Booth, as a special favor to them all, to ropeat the Lord's Projer. He signified his willinguess to gratify thom, and all eyes wore fixed upon him. Ho slowly and rnverently arose from his chair, trembliLg with the burden of two great concoptions. Ho had to realize the character, attribates, and presence of the

Almighty Beivg lie was to address. He was to transform himself into a poor, sinniug, stumbling, benighted, noedy supplicant, offoring homake, asking bread, pardon, light, and guidance. Says one of the company who was present, "It was wonderful to watel the play of emotions that convolsed bis countonance. He became deathly pale, and his eyes turned trembling upward, were wot with tears. As yet he had nol spoken. The silonce could be felt; it had bocomo absolutely paintul, uutil at last the spell was broken as if by an eleotric shock, as his rich-toned voice syllabled forth, 'Our Father which art in Henven,' \&c., with a pathos and fervid solemuity which thrilled all hearts. Ho fimished; the silence continued; not a voice war heard, nor a muecle moved in this rapt audience, until, from a remote corner of the room, a subdued sob was heard, and the eld gentleman (tho host) stepped forward with streaming oyes and tottoring frame, and seized Eooik by the hand. - Sir,' said he, in broken accents, 'you have afforded mo a pleasure for which my whole luture life will feol grateful. I am an old man, and every day, from boyloood to the present time, I have repeated the Lord's Prayer ; but I never heard it before, never !' ' You are right,' replied Booth ; 'to read that prayer as it should be read, caused me the soverest study and labor for thirty years, and I am far from saticfied with my rendoring of that wouderful production. Hardly one person in ten thousand comprehends how much beanty, tenderness, and arandeur can be condensed in a space so simple. Thatjprayer sufficiently iilustrates the truth of the Biblo, and stamps upor it the seal of divinity.'"

## THE DISTRICT SCHOOLMASTER.

Josh Billings speaks of this much-abused personage as follows: There iz one man in the world to whome I always take off mi hat, and remane uncovered until he gits safely by, and that iz the distrikt schoolmaster. When I meet him I look on him as a marter just returned from the stake or on his way to be cooked. Ho leads a more lonesum and single lifo than an old bachelor. He iz romombered just about as long afecshmatela as a gide-board az by a ravelin pack pedlur. If he undertakes to make his scholarz luv him the chances are he will neglect their lurnin, and if ho dont lick 'ern now and then prely often, they will soon lick him. The distrikt schoolnaster ain't got a friend on the flat side of the globe. The bors sunwball him durin' recess, the gir s pur water in his hair-die, and the school cummitty makes him work for haf the money a bartender gets, and buard him round the n:burhood, where they give hin rye coffy sweetened with molasses tew drink, and coatish.bolls three times a day for vitlies. Talk tew me about the pashunce of the ancient Job; Jub had prety plenty ur bles all over him; no dumbt they were all uv oue breed. Every young one in a distrikt skule 18 a bile ur a different breed, and each young one needs a different kind of puouitins so get a good head on him. Erery man who has kept distrikt school for ten years, and has borded arcuund the naborhood ought to be majer general, and have a penshun for the rest uv hiz natural days, $a$ hoss and wagon tu du his goin round in.

## SOME POINTS FOR YOUNG TEACEERS.

1. Speak to the pupil seven times, privately, before you puniah him.
2. Punish him privately soven times beforo you make a public cuilprit of Lim.
3. By this time your patience and fairness will be established, and the sympathy of the pupils will be strongly with you.
4. Reprimand publicly seven times beforn you punish publicly.
5. Punish publicly seven times before you suspend a pupil.
6. Between these times consult with parents and familiarize sourself with the home conditions.
7. This may modify your judgment and awaken your sympathier.
8. Suspend a prpil seven times before you expel him.
9. Admit him alsays on hia promise to you to do better.
10. When pou do expel, mako it an impressivo matter hy having the school trustees present, and by giving a full account of your continued efforts in his behalf, his persistent incorrigsbility, your hesitation and sadness at being compelled to deprive hum of the most precious privilege he enjoys. the achool ; finally, promounce
judgmont in serious, sublued tones, commanding the boy to take his books, loave the room and not return during this term, giving him to understand that all is done with the knowledge and sanction of the trustecs.
11. Such a scene should not occur more than once in one term. It should not occur once.-Normal Teucher.

## QDESTIONS IN LOCAL GEOGRAPEY.

1. What manufactories have you visited ?
2. What is most extensively manufuctured ?
3. Where are the things made sold $?$
4. What is a grist mill?
5. What is mado out of wheat?
6. What is wheat worch now?
7. How many bushels mako a barrel!
8. What is a barrel of good flour worth ?
9. What kinds of fish have you caught?
10. Beef, mutton, pork, ham, veal-from what animal does each come?
11. What woud is most used here?
12. Where does it come from?
13. What substance is most used in building houses here?
14. How does your father earn a living?
15. What officers that you know are elected?
16. When are they elected?
17. What kinds of fruit do you buy?
18. Where are they raised ?
19. How could you earn any money?

Dors it Pay to Hree Caeap School Teaceers 1-A man tries to be a farmer and fails; tries to be a lawyer, fails; tries to be a minister and is not even good enough for that ; but one thing he can do-le can be a schoolmaster. And as you will find throughout the country schonlmasters are selected becanse thoy are cheap. You can get him for $\$ 10$ a morth found. Shame on the parsimony that would take a cent from the pay of the men or women employed as teachers. If there is any profession which should be made absolutely independent of all caro as to the means of living it is that. I do nut undervalne my orn, but I think that the schoolmaster atands nearer God than a minister can. For myself, I hated the school, I hated it in my mind, 1 hated it in my body, I hated it in my affections. I had no religious nature, so I could not hate it in that. I hated echool, and yet there came a summer in old Litchtield when in spite of tears and protestations I was sent out of the house and to school, and I found a schnol ma'am comely though with a vory pale face, and young-not over eighteen -who met me at the door and patted me on the head and played with my curly hair, and she sat me down at her feet and made me happy. She was taken sick and died, but while sho taught was the only pleasant time $I$ ever had in schuol. There is no ecunomy so penurious, no wrong so iutulerable as that which onts down the pay of the teacher, and simply because they with whom they havo to do are only children. Only children! Whose children? Your children, my children, Gud's crildren, the sweetest blossnms in the garden of tho world, fur whom angels may bo proud to do service. If they are neglected you are to blame, for if you cared enough about it, it would ngver happen.-Henry Ward Seecher.
-The following is a Teacher's Lesson on Participles and Infinitives, taken from the Wisconsin Journal of Educution:

1. The bell having rung, we started.
2. To go prepared, is well.
3. It is to be deplored.
4. I grieve to hear you say so.
f. It is good enough to tell.
5. Ho learns to read.
6. Ho knows better than to veniure.
7. He knows when to putchase.
8. He reads to learn.
9. By carefully reading a book, we gain ita thought.
10. It is freszing cold.
11. This is surprising.
12. The ship is about to sail.
13. For yon to deceive no so is unvise.
14. Writing Greek is hard.
15. I wish to come to stay.
16. His being an enumy makes no differonco.
17. He loft the horse tied to a tree.
18. His name, wisullied by any stain, is honored.
19. Business promptly attended to here.
20. When to assault, and how to defend, must be learned by every leader.
21. It is too hard to learn.
22. It is difficult to make a cat tako to suimming.
23. The sun is so warm as to dissolve the snow.
24. To be, or not to be, that is the question.
25. The boy came runaing home.

## COUNTY OF LINCOLN PROMOTION EXAMINATIONS.

## March 24 thand 25 ta 1881.

## ARITHME IIC.

from 2nd to 8Rd class.

1. Add four hundred and ono, sixty-seven, three thousand and ninoteen, sixty-four thousand six hundrod and eigit, seven handred, six thousand and eloven.
2. A man owing 1500 dollars, paid at one time 829 dollars, and at another 798 dollars: how much does he still owe?
3. If a man paye 6540 dollars for building 1 mile of railroad, how much should ho pay for building 307 miles?
4. A farmer sold 89 cows at 45 dollars each, and receives in payment 1179 dollars: how much is yet to be paid him?
5. From 605706 take 19077, and multiply the remainder by 400 ,
6. I lought a houso for 10249 dollars, and sold it for 12150 dollars: how muol did I gain?
Values-10 each, and 10 additional for a neat paper; full work required.
junior 8rd to sentor 8rd class.
Values.
7. A man bought 95 cows at $\$ 87.25$ each, and sold them at $\$ 40$ each; how muoh did ho gain?
8. A person earns $\$ 8.25$ a day, and pays 75 cents for board; in how many days will he save $\$ 912.50$ ?
10
9. If I buy 17 lbs . of sugar at 10 cents a pound, how much change will I receive back out of a 85 bill, and how many oranges at 8 cents each might I receive for my change?
16
10. A merchant sold 27 yards calico at is cents a yard, 45 yards muslin at 18 cents, 16 yards linen at 45 cents; he took in exchange 12 hushels potatoos at 65 cts.; 3 barrels of apples at 82.25 , and the balance in cash; hnw much cash did he receive?
ס. A man has $\$ 10,000$; he buys a house worth $\$ 4,829.86$, and with the remsinder buys 4 lots; how much does he pay for each lot?
, $\delta$ 6. Divide the product of 810 and 705 by 81.
Ten marks additional for neatness.

## FROM 9mD to 4TE Chass.

Valuee.

1. If from 2 lbs . of silver enough is taken to make a dozen spoons, weighag 1 oz .10 dwt .2 gr. each, how m:chis will be left?
10 2. If 1 acro will prodnce 28 bush., 8 pks., 8 qts. of wheat, what will a field of 24 acres produce? pound?
2. Hon much land will bo left out of a fipld of 12 ac .8 rds. 26 sq . rods, if a lot is fonced off it measuring $2 \mathrm{ac}, 87 \mathrm{sq} . \mathrm{rds}, 27 \mathrm{sq} . \mathrm{sds}$. ?
15
3. If a man travel 14 miles, 8 fur. 22 rds. 8 yds. 2 ft. in one day, how far will he travol in 7 days?
4. How many bnslifls of grain in $1,800 \mathrm{lbs}$. of wheat, 680 lbs. of outs, 960 lbs . of barley, 600 lbs . of peas, and $1,120 \mathrm{lbs}$ of corn?
Ten marks additional for neatness.

## rrom 4 TII to btir olass.

1. Simplify $\frac{1 \cdot \dot{6} \text { of } 2 \cdot 75-8.8}{1 \cdot \dot{6} \div 2.75 \text { of } 3.8}$
2. A tree 140 foet in length was broken in two pieces by falling, and $z^{2}$ of the louger piece was equal to 4 of the shorter; find tho length of each picce.
3. Reduce $\frac{2}{3}$ of $7 \frac{1}{2}$ of 86 of 1 ff of 8 miles, 1 fur., 5 per.; to incles.
4. If six articles cost $\$ 14.80$, how much will 18 cost at the same rate?,
5. A man buys 25 sheep at $\$ 144$, and 80 more for 8184 ; what will ho gain or lose by selling them at $\$ 0.10$ a pieco?
6. Find the expense of papering a room 80 ft .6 in . long, 24 ft .8 in. broad, and 11 ft . high, the paper being 2 ft .8 in . wide, at 31 cents a square yard $?$
7. There are 4 village lots; the first contains $\$$ of $\frac{5}{5}$ of an acre, the second $40 \frac{2}{3}$ rods, the third $\frac{t}{7}$ of an acre, and the fourth 7 of $f$ of an acre; find how much land in the four lots. Express the answer in acres, roods, etc.
Ten marks additional for neatness.

## GRAMMAR.

zUNIOR 8RD TO SENIOR 3RD OKAES.
Values.

1. Give lists of the nouns and adjectives on page 82 of the reading book, from the beginning of the les. son to the bottom of the page.
N.B.-The adjectives a and the not to bo connted.
2. Divide the following sentences into subject and predicate :
The dazzling splendor of the sun was refleoted from tho water.
The whule country was covered with snow.
You can show me the place.
In a distant country be died.
8
3. Supply prodicates for the following sabjects : The boy.
Our lesson for to-day.
The wild animals of America.
The Atlantio Ocean.
8
4. Supply subjects for the following predicates: - jumped over the fence.
—— is very cold.
—— sailed around the world.
—— died.
HROM 3RD TO 4TE CLASS.
Values.
8 1. Compare the following adjectives, making a separate list of those that cannot be compared: Beautiful, creat, awful, perf ct, little, nniversal, bad, angry.
5. Analyze the following sentences:

Poverty, wealth, and squalid misery flourished togethar.
I saw him no more until the next day.
The clonds around the setting sun assamed a new appearance scon after the rain. o a list of the adverbs in the abovo sentences, and the words they modify.
Give the prepositions also, and state what words they join.
4. Classify the parts of speech in the first two verses on page 192 of the third reader, leaving out the adjectives a and the.

FROM 4TI TO 6TH OLASS.
Page 222 of the Fourth Reader, from "As the baggage horses" to
"Movemont in the contre." Values.

20

85

15
號
8. Correct the following, whero necessary, giving your reason:
(a) Wo do not want no strangers here.
(b) Was you at tho lecture lnst night?
(c) I never seen such a crowd as there was colleoted.
(d) Ask leave for you and I to go home nt noon.
(c) I do not know how it was done or who dove it.

10
4. Describe the different kinds of nominativo case, and give an oxamplo of ench.

## ENGLISH HISTORY.

## fRON ATH TO 5TH CLASS.

1. What were the changes in the manners and customs of the Britons made by the Romans?
2. In whose reign did these eminent men live, and for what is each of them distinguished? Cardinal Wolsey, Sir Francis Drako, John Hampden. Duke of Wellington.
3. What was the cause of the civil war in the reign of CLarles I.? What was the result of it?
4. Name the sovereigns of England from Willinm the Conqueror to Henry VII.

## SPELLING.

from 2nd to 8rd class.
(Not to be seen by pupils.)

1. Robin Redbreast and Jeuny Wron.
2. Three jars of steaming soup.
3. The shrill, piercing tones of Tiny's voice.
4. Moses was the leader of the children of Ibrael in their wandorings.
5. Your uncles and cousins and aunts.
6. Clothed in complete armor.
7. Presence of raind and courage.
8. Finished painting a portion of the ceiling.
9. In a crack near the cnpboard with dainties provided.
10. He coukd scarcely swallow them.
11. After wringing the water from his hair he rosumed his coat.
12. The guardsman foraged in his pocket.
13. First, second, third, fourth.
14. She was pleasantly surprised.
15. I don't know, eaid Rohert, hesitating for an exense.
16. Suppose the glistoning dew-drop.
17. A little mischicf-making elfin.
18. 'Gaining knowledge by asking questions.
19. He perceived his master swimming toward him.
20. He lived in a far-off country.
21. His friend perceived his danger.
22. Dick made $a$ liberal and proper uso of his wealth.
23. A rustling in the leaves aud a crashing of branches.
24. Kicked up his hind legs and galloped away.
25. Little enemies are sometimes very troublesome.

Value of paper, 50 -two marks off for cach mistake.
Reading-value, 40. Writing-value, 30 .

## junior 3rd to senior 3rd ciass.

(Not to be secn by punils.)

1. Notwithstanding his vigorous efforts.
2. For I can weather tho roughest gale.
3. Her rattling shrouds all sheathed in ice.
4. I passed the day in meditation aud prayer.
5. A strange assertion, said the merchant, bat where are the jewels?
6. Her grandmother looked calmly and smilingly ou her.
7. How little they appreciate their privileges.
8. John Adame, the second President of the United States.
9. Tom continued his description in a honiso whisper.
10. She went in a hoavy sen to rescuo the distressod passongors.
11. Saved many little creatures from boing tortured to death.
12. The ingonious boy trained somo partridges.
13. Engaged in gathering $n$ species of mushrooms.
14. Many persuns pursuo with ongerness.
15. Thu intelligenco of ther furr-footed friond.
i6. Exhbiting his wrath.
16. Displayed their long trinngular teeth.
17. And n most Christian vongennce it was.
18. Ho vuluntecred the answer immedintely afterwaris.
19. Tho excitement becamo intonse.
20. Ho quietly sneaked into the house.
21. Enterprising individnals havo tried the experimont.

Value, 50 -two marks off for each mistake.
Reading-40. Spelling-40.
from 3nd to 4 Te class.
(Not to be seen by pupils.)

1. Asoiduous attoution.
2. The original lumberman and the first hydroulic enginoers.
3. Efficiently and economically.
4. No slackening of the paco occurrod.
5. The smuke encircled his head liken wreath.
6. They aro dreadfully superstitious.

7 A tablet commemorates bis heroism.
8. They were provilentially despatehed in search of me.
9. The war-whoop of his fierce enemies.
10. A big, coarse-looking, disagreenblo man.
11. Some hauled, might and main, at the boats.
12. An extraordinnry state of excitement.
18. Pemican is found extensively throughout Rupert's Lend.
14. Desperate encounters with grizaly bears.
15. Efforts to remody this deficiency.
16. He became the executioner of his comrades.
17. The slow operations of the siege.
18. Skilfully fortified and defonded by a suffioient garrison.
19. They throw themselves over the precipice.
20. A triumphant yet dignified expression.
21. Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday.
22. January, February, April, September, Ootober, December. Value, 50- two marks off for each mistake.
Reading-40. Writing-40.

## from 4 th to 5 th class. DICTATION.

Page 280 of the Fourth Reader, from "atter the banquet" to " mingled confusedly together."
Value 50-four marks off for each mistako.

## COMPOSITION.

Page 150 of the Fourth Reader. After having the lesson read to them once, let the pupils relate the incident in their own words. Value- 50 marke.
Reading-50. Writing-50.

## GEOGRADEX.

Values. Junior 3rd to senior Brd class.
20 1-Name ton islands near the continent of Europe and name the water surrounding each one; also ton islands near America, with their sarronnding waters.
10 - 2-Give the direction the following rivers flow, and the Whiters they flow into : Niagara, St. Lawrenco, Mississippi, Amazon, Parana, Volga, Indus, Euphrates, Gauges, Nile.
20 8-Name ten channels or straits in Errope and the differont waters they connect; three in America; twe in Asia.
10 4-Name two isthmuses, stating what bodies of land they join and what waters they separate.
Ton marks additional for a neat paper.
Values.
from 3rd to 4tr clabs.
10

1-Namo the cities in Ontario and the Onited States standing on the shores of the great lakes.

8 2-Namo tho large cities on the Atlantio and Pacifio coasts of North Amoxica.
8-Name the tributaries of the St. Laxrennr, Nississippi and Amazon rivers.
8 4-Name tho waters a ship must pass through in sailing from the Blaok Soa to New York.
10 5-Namo tho islands and island groups off the east coast of Asia.
6-How can a ship pass from the Indian Ocean into tho Mediterranean Sea?
Tou marks additional for neatnoss.
Values.

## prom 4 ta to 5 tal class.

1-Name the counties and principal towns through Which the Great Western Railway passes from Suspension Bridge to Toronto ; and those traversed by the Grand Trunk Railway from Toronto to Montreal.
2-Name ten of the largest cities in Europe and give their exact situation.
3-Name all the British settlementsin Africa and descri- e the pesitions of the Transvaal.
4-What is the population of China, of Hindostan ; and What are the religious beliefs of the people, their color, and their staple article of food?
5-- What is the boundary line betweon Manitoba and the United States?
6-Wbat and where are Oporto, Glasgow, Havre, New Orleans, Sacramento, Naples, Sumatra, Tasmania, Cormorin and Malta?
Ton marks additional for neatncss.

## PUPIL TEAOHERS' EXAMINATION PAPERS,

 JANUARY, 1881:
## Cahdidates.

Threm-andoa-malf hours allowed. ARITHMETIC.

Males.

1. Find the value of 694 owt. 1 gr. 14d lbs. at $£ 819 \mathrm{~s} .4 \mathrm{~d}$. per owt.
2. If the tax on $£ 3357 \mathrm{~s} .6 \mathrm{~d}$. amonnts to $£ 58$ 16s. 9 did., what is that in the pound?
3. A besieged town containing 22,400 inhabitants has provisions to last for three weeks; how many mast be sent away in order that the city may hold out for seven weeks?
4. A ceremony attended by a number of persons from a distance extends over 2 days. The first day the railway conveys 285 firstclass and 8,085 third-olass passengers, charging 2 s . 8 d . for each of the former, and 18. 7dd. for each of the latter. The second day, in hopes of larger receipts, the railway issuestickets at the uniform price of 18. , and convays 6,009 passengers. Find the difference in the sums taken on the first and on the second day.

## Feyales.

1. Find by practice the value of righty dozen pair of boots at 19s. 7hd. per pair.
2. Find the value of $\bar{i}, 527$ owt. 2 qrs. 16 lbs . of sagar at 81 guineas a vwt.
3. Make ont a bill for the following:-
$62 \frac{2}{3}$ tons of hay at $\approx 015 \mathrm{se}$. per ton.
$41 \%$ qre. of beans at $£ 2 \%$. per qr .
584 qrs. of onis at $£ 168$. per qr.
25 sacks of flour at $£ 17 \mathrm{Fs}$. 6 d . por sack.
B7 $\frac{1}{2}$ tons of potatoss at $£ 42 \mathrm{~s}$. $6 d$. per ton.
4. Find the rent for 61 months 1 week 4 days at f8 0s. Gd. per month of 4 weeks.

## gramimar.

1. Parse all the verbs and adjectives in the following:-
"It is sad to see an infant fade Bencath our very gaze,
As a lily in some poisonous shade, Droops, withers, and docays;
It is sad to see the eyo's pure light Grow fainter day by day."
2. Plurals aro sometimes formed from the singular by a ohango in the body of the word. Give oxamples of this.
3. Adjectives of number are eomotimos used as adjectives, somolimes as nquns. Givo examples of oach. gEOGRAPHY.
4. Montion the different names given to oponings in the land and to narrow passages of water on the consts of Great Britain and Ireland; and give examples of the use of each term, describing oxactly where each of them is.
5. Irace minutely the lino of vater-parting which soparatos the basins of the Thames and Sovern from those of rivers flowing into the Englisia OLannel, and mention these rivers in order.
6. Say what you know abont the Orkneys and Shetlands, the Hebrides, the Isle of Man, Anglesea, the Isle of Wight, and tho Clannol islands.
Draw a map; if you can, in illustration of any one of your answers.

## COMPOSITION.

Write, from dictation, the passage given out by the Inspector:The eagles were at rest | on their rocky ledgo |a thousand feet | above the waters. | The horons had left | the several promontorios, and the flapping of their wings ovorhead | was no more heard. | The raven was gone home; | the cattle were all | far aryay on tho mountain pasture ; | the goats hidden in the woods | which gielded the tender shoots $\mid$ on which they subsisted. I The round ejes of a White owl I stared out upon him | here and there, I from under the eaves | of a farm-hou e, $\mid$ and these seemed to be | the only eyes besides his own | that were open. | The inhabiants were cill asleep, I oven with sumshine | lying across thoir very faces.

PENAANSHIP.
Write in large hand, as a specimen of copy-setting, the worl Versatility.
Write, in small hand, as a specimen of copy-setting, "Stirred up by Dnrset, Buckingham, and MLartons, he comes."

POPIL TEACHERS AT END OF FIRST YEAR.
Three-and-a.half hours allowed.
ARITHMETIC.
Males.

1. Reduce 18 furlongs 8 poles $8 \frac{1}{2}$ yards to the decimal of one mile ; and 4 ft .6 in . to the decimal of 3 yds .2 ft .
2. If 1,191 tons 10 cwt. 1 qr . 141 bs , cost $£ 505$ 15s. 24 d ., what is the cost of half a million tons? Work this by fractions.
3. A farmer has 295 more sheep than cows, and this difference is 瀵 of the number of sheep he possesses; how many cows has he?
4. In exchange for 1 cyl. of coffee at Is. $6 d$. per lb:, how much monef would you expect to receise along with 18. lbs. of tea at - 42857 i of a grines por lb .?
5. Find the greatest common measure of 805 and 1,811 ; and the least common multiple uf 16,863 nnd 21,489 .

## Females.

1. How many yaris of lace can I buy for $£ 685$ 278. 9d., at the rate of five guineas for 123 yards?
2. If, after paying incomo tas at 1s. 2d. in the pound, a gentleman has $£ 701$ 103. 10d. remaining, what is his annual custom?
3. If $£ 690 \mathrm{~s}$. 11 fill. pays the carriage of 47 tons 8 cwt . 83 lbs . of goods for 764 miles, what wigight wonld be carried $\mathbf{0} 73$ miles for the same sum?
4. If 72 oxen require 18 acres of turnips to supply thom for 80 weeks, how many acres would supply 18 score of sheep for 45 weeks, on the supposition that 9 oxen eat as much as 30 sheep? GRAMMAR.
5. What are the two kinds of participles? Describe them, and give oxamplos of each.
6. Parse the pronouns in the following:-
"Which pillage they with merry march bring Lsme
To the tent royal of their Emperor."
7. The words each and other are used both as adjectives and as pronouns; give examples of them in both uses.
8. Give notes of a simple lesson on Advcibs, suited to Standard IV.

GEOGRAPEY.
Answer cither Q. 1 or Q. 8, not both.

1. Trace minutely the line of water-parting which separates the basins of tho Thames and Severn from those of rivers flo-ing into the English Channel, and desoribe those rivers in order.
2. Draw a full map of the coast Irom Cupe Spartivento to Capo Mitapan.
3. Doscribe, as. fully "as' yout cau, tho playsical features, chicf divisions, towns, and manufactures of tho Alnstrime empiro. What titlo does the Sovereign bear at Vienua, and what at Buda-Pesth? Way are they different?

IIISTORY.

1. Give the dates of Henry, I., Richard II., Richard III., and Elizalzeth, aud name their immediato successors.
2. Write out at list of our Sovereygs from Charles I. to Anno, with dates.
3. Why is this called the nineteonth century? When did it begin and when will it ond?

## PENMANSHIP.

Same exercise as that set for candidates. COMPOSITION.
Write from memory the substance of the pasaage read to you, by the Inspector.
In general, a word from tho koeper is sufficient to encurage that intelligent aranturn, the elaphant, to prefurm the task assigned to it. In Indin, where elephants wero once employed in launching ships, one of them was directed to force a largo, vessel into the water, which task proving superior to his strength, tho inaster, in an angry tone, cried out: "Take away that lazy benst, and bring another in its place!" The poor animal instantly reloubled its effurts, fractured its skull, and died upon the spot.
POPIL TEACEERS AT END OF SECOND YEAR (if appren-
ticed on, or.after, 1st May, $1 S{ }^{\prime} S_{1}$, AND PUPIL TEACHERS
AT END OF THIRD IEAR (if apprenticed before that date).
Threz-and-a-half hours allowed.

## ARITHMETIC.

Males.

1. I sell 185 bushels of wheat for $\mathfrak{L} 533$ 3. 9d., thus gaining 15 per cent. At what price per bushel did I buy the wheat?
2. Having £82.; I lend it at $3 \frac{1}{2}$ per cent. simple interest. In how many years will it amount to $£ 1,00 n$, and what amount shall I have to receive at the end of thirty years, nothing having beon paid in tho meantime ?
3. $£ 91 \cdot \dot{6}$ amounts in $3 \cdot 5$ yoars to $£ 105 \cdot 30208 \dot{3}$, what is the rate per cent. per anumm simplo interest?
4. How must nutmegs which cost $18.7 \overline{\mathrm{j}}$. a lb . be sold so as to gain 16 per cent. ?
5. A phumber sold 96 cwt. of lead for $£ 109$ 2s. Gd., and gained at the rate of $12 \frac{1}{2}$ per cent. What did tho lead cost him per cwt.?

## Females.

1. Find the least common denommator of

$$
-\frac{5}{27}, \frac{11}{24}, \frac{5}{6}, \frac{4}{15}, \text { and } \frac{8}{5} .
$$

2. What number added to $\frac{7}{3}+i^{5}$ s. will gave $2 \frac{2}{8}$.
3. Simplify-

$$
\left(2 \frac{3}{2}+\frac{3}{2} \text { of } \frac{7}{3 \frac{1}{5}}-\frac{13}{21}\right) 1_{2} \frac{3}{2} 3
$$

4. If a person travelling 13 hours a day perform a journoy in $27 \frac{1}{8}$ days, in what time will he perfurm tav same if he travel $10 \%$ hours a day?

## GRAMMAR.

1. And oh! when passion rules-how rare

The hours that fall to virtue's share!
Analyse the above, supplying what is needed in the principal sentence, and taking care in your analysis to point out the character of each senterice.
2. Give exanples of cubjanctivas of nme, and frame passages

8. Parse each word in the following-
"The evil that men du hives after them."
4. Give notes of a lessim on transitive and intransitivo verbs suited to Standard IV. or V.

## GEOGRAPHY.

Answer two quest:ons only.

1. Describe, as fully as you can, the physical features, chief divigious, towas, and manafactures of tho Ausirian empire. What title does the Sovereign bear at Vienna, and what at Buda-Pesth? Why are they different?
2. Draw a full map of the Basin of the Ganges, marking its tributarios and clief towns, and noting the point at which tho course of tho Jumna is nearest t':nt of the Sutlej.
3. Give notos of a losson on this soutonce:-"All Europeans who live in Cale:lta or Mfadras escape to the hills, if they cain, for the hot season."

Arrange your notes under these heads:-
(a) Who are meant "by Europeans"? And why aro they in India?
(b) Where aro Calcutts and Madras? Why aro theg unhealthy in the loot season?
(c) What is "the hot season"? And what are the causes of it?
(d) What hills can they go to? Mention any places in the hills.

## One hnur allowed for females.

Two-and-a-malf hours allowed for males. IUSTORY.
1 What was the extent in time and territory of the Roman nccuputinn ef Britain? Cumpare the conditoon of the Romans and tise Britons nineteen centurios ago.
2. Mention circumstances in the interval condition of England which facilitatod the Norman Conquest.
3. Describe the ond of Richard II., and tell how the Crown was settled'aftor that evont.

## PENARANSHIP.

Same exercise as that set for Candidates.
COMPOSITION.
Write full notes of a lesson on A descrt. EUCLID.
[All generally understood abbreviations for woids may be used, but not symbols of operatibhs, such as,,$-+ x$.]
Il solving a rider, only the proposition to which it is appended, and preceding propositions, may bo roferred to.

1. If two triangles have two sides of the one equal to two sides of the other, each to each, and have likewiso the angles contained by those sides equal to each other; they shall likewise have their bases or third sides equal, and the two triangles shall be cqual, and their other angles shall be èqual, each to each, viz., those to which the equal sides are opposite.

ABDE, BFGC aru squares on two sides of the trianglo ABC, and $A F, C D$ are joined. Show that $A F, C D$ are equal.
2. The greater sich of overy trinaglo is opposite the greater angle. Point out where the demonstration begias.
POPIL TEACEERS AT END OF THIRD YEAR (if apprenticed on, or after, Mfay 1st, 1878), AND POPIL TEACHERS AT END OF FOURTH YEAR (if apprenticed before that date).

## Teree-and-a-balf hours allowed. ARITHMETIC. Males.

1. A. gives B. $£ 6317 \mathrm{f} .6 \mathrm{~d}$. as payment of a loan and interest, at the rate of 17 per cent. Tho money was lent 87 ycars before. What was the aniount of the loan?
2. A porson has $\frac{7}{}$ of a ship worth $£ 6,000$, and insured for $91 \cdot 25$ per cent. of its real valuo. What amount of damage would he sustain in case of the ship being lost?
3. $£ 825$ for 825 of a year at $8 \cdot 25$ per cont. Find simple interest and amount.
4. At what prico per yard must cloth be sold to gain 17 per cent. if by selling 109 ysids of it for $£ 46$ 6s. 6d., 8 per cent. bo gained 8
5. Divile $£ 10,000$ among A., B., C. so that $\Lambda$. may have halfas much again as B., and B. a third as much again as C .

## Females.

1. Find the sum, differonce, priduct, and quotient-tho greater heing divided by the less-of 1.015 and $\cdot 01015$.
2. Find the difference between $6 \underline{d}$ balf guineas and $£ 8,525$; and reduce the result to the decimal of a crown.
3. Add $5 \frac{1}{2} \mathrm{cwts}$. to $8 \cdot 125 \mathrm{qrs}$; and reduce the suma to the decimal of a ton.

## Gramyar.

1. Words or phrases attached to the nouns of a sentence aro callod enlargements, aitached to tho verbs they are called extensions. Give two examples of each.
2. "Dost thou so hunger for my ompty ohair

That thou wilt needs invest theo with my honours? Stay but a little; for my cloud of dignity Is hold from falling with so weak a wind That it will quickly drop."-Siraiespeane-Henry IV.
(a) Analyso the last thrie lines.
(b) Parse the words in italics.
(c) Give the moaning of the above passage in your own words, oxplaining so far as you can the figures and metaphors.
8. What aro the Latin prepositions that mean out of, from, under? Give exnmples of words in whioh they ocenr, pointing out the fore of the preposition in each case. GEOGRAPHY.
Answer two quostions only; but Nos. 1 and 2 if you can.

1. Give notes of a lesson on this sejtonce:--" All Europerans who live in Calcutta or Madras escape to the hills, if they can, for the hot season."

Arrango your notes under these heads:-
(a) Who are menat by "Europeans," and why are they in India?
(b) Where are Calcutta and Madras? Describe exactly the situalion of each.
(c) What is the hot soason, and what are the causes of it?
(d) What hills cen they go to? Name any places in the hills.
2. Draw a map, slowing the course of the Senegal and the Quorra or Nigor, and the coast line between their mouths.
8. Desoribe tho East Coast of Afriea, and the islands opposite to it.

## One hour allowed for females.

Two-and-a-malp hours allowed for males. HISTORY.

1. Explain the relations of Mary Stuart to the thrones of Scotland, England, aud France.
2. How did Charles I. regard Parliamont? What ware the consequences?
3. Show the descent of Queen Victoria from James $I_{\text {; }}$; and compare the extent of dominion of the two monarche.

PENMANSHIP.
Same exercise as that set for Candidates.

## COMPOSITION.

Write from memory the substance of the passage read to you by the Inspector:-
After Romulus had reigned over Rome nearly forty jears, he one day oalled his people together in the field of Mars, near the Goat's Pool, when, all on a sudden, there arose a dreadful storm, with darkness, and thunder, and lightuing, so that all the people fled in terror from the field and yan to their several homes. At last the storm was over, and they came back to the field of Mars; but Romulus was nowhere to be found, for Mars, his father, had carried him up to heaven in his chariot. The people knew not at first what was become of him; but when it was night, as a certain man was coming from the country to the city, Romulus appeared to him in more than mortal beauty, and grown to more than mortal stature, and said to him: "Go and tell my people that they weep not forme any more; bat bid them to be brave and warlike, and so shall thoy make my city thu greatest in the earth."

## EUCLID.

[All generally understood abbreviations for toords may be used, but not symbols of operations, such as $-\ldots,+, X$.]

1. If a side of a trianglo be produced, the exterior angle is equal to the two intexior and opposite angles: and the three interior angles of every triangle are together equal to two right angles. The differenco of the angles at the base of any triangle is donble the angle contained by two lines drawn from the ver.ax, one bisecting the vertical angle, the other perpendioular to the base.
2. Equal triangles upon the same base and upon the same side of it are betweon the same parallels.

Point ont where the demonstration begins.
ALGEBRA.

1. Simplify $a-(b-c)-\{b-(a-c)\}-[a-\{2 b-(a-c)\}]$; and shew ihat

$$
\frac{a+b}{(a-b)(x-a)}-\frac{b+c}{(a-b)(x-b)}=\frac{x+c}{(x-a)(x-b)} .
$$

2. Find the G.C.M. of $a^{3}\left(b^{6}-b^{2} c^{2}\right)$ and $b^{2}(a b+a c)^{2}$.
3. Solve the equations:-
(1) $\frac{7 \cdot 1-8 x}{5}-8 x=5 \cdot 44$.
(2) $\frac{12}{x}+\frac{1}{12 x}=\frac{29}{24}$.

PUPIL TEACHERS Al' END OF FOURTH YEAR (if apprenticed on, or after, 1st May, 1878) AND PUPIL TEAOHERS AT END OF FIFTH YEAR (if apprenticed before that date). Tharfr-and-a-half iours allovedt.

## ARITHMETIC.

Males.

1. Three persons rent a piece of land for $£ 6010 \mathrm{~s}$., the first puts in 5 sheep for 41 months, the second 8 sheep for 5 months, the third 9 sheep for $6 \frac{1}{2}$ months; what share should each pay of the ront ?
2. Compare the incomes to be dorived from investing $£ 8,500$ in the $8 \frac{1}{2}$ por conts at 98 , and $£ 3,995$ in the same stook at $9: 27$.
3. If teas at 2 s . 9 d ., \&s. 8 d ., 2 s .4 d . respectively be mixed n equal quantities, and the mixture be sold ab 10 guineas per ewt., whal will be the gain or loss per cent.?
4. What por-contage on $\overline{1,000}, \overline{000,000}$ is $\vee \overline{112} \times v \overline{175}$ ?
5. Find two deoimal fractions together equal to $\frac{1}{r}$, and such that one shall be $\frac{1}{s}$ s of che other.

## Femalrs.

1. What sum of monoy will amount to $£ 25610 \mathrm{~s}$. in four years at $3 \frac{1}{2}$ por cent. simple intorest ?
2. If a man travel 198 miles by railway for $\mathfrak{£ 2} 9 \mathrm{~s}$. 0 d ., how far at the same rate of charge ought he to be carried for $£ 80 \mathrm{~s} .10 \frac{1}{2}$. ?
3. The price of a work which comes out in parts is £2 16s. 8d.; but if the prioe of each part was $18 d$. more than it is, the price of the work would bs $£ 87 \mathrm{~s}$. 7d. How many parts are there?
4. Divide $£ 11,000$ among four persons-A., B., C., D.-in the proportions of $\frac{1}{3}, \frac{4}{3}$, $\frac{1}{4}$, and $\frac{1}{5}$.

## gRAMMAR.

1. "And to a pleasant grove I 'gan to pass Long ere the brightë̈ sun uprisen was; In which were oakës great, straight as a line, Under the which the grass, so fresh of hue, Was newly sprung; and an eight foot or nine Every tree well from his fellow grew, With branchës broad, laden with leavës new, That sprangen out against thes unnë sheen; Some very red; and eome a glad light green; Which, as me thought, was a right pleasant sight." Chaucer, "The Flower and the Leaf."
(a) Notice any points in which the English of the above passage differs from modern English.
(b) How many sentences are there in it, and by what means are they connected.?
(c) Name the particular kind of senteuce to which pach belongs.
(d) Parse the words in italics.
2. Give the origin (old English derivation) of the following words: ought, must, durst, and of better, worst, least, cunning.

GEOGRAPHY.

1. Give notes of a lesson on "Central America," and illustrate it by a map.
2. Describe fully the Indian Unean, with the seas, gulfs, and bays connected with it, its chief currents and periodical winds.

One hour allowed for fentales.
Two-AND-A-HALE hours allowed for males. HISTORY.

1. What families have occapied the throne of England since 1066, and from what coantries did they severally spring?
2. Montion the ohief foreign possessions of the British Crown, and tell when they were severally acquired.
3. Give some account of the chief manufactures of England. Tell in what parts of the kingdom they are now carried on, and point out auy changes which have taken place in this respect.

PENMANSHIP.
Same exercise as that set fc: Candidatos.
COMPOSITION.
Write an essay on The difference between Trades and Professions. EUOLID.
[The only abbreviation allowed for" the square on AB " is " sq . on $A B$, " and for " the rectangle contained by $A B$ and $C D$ " "rect. $A B, O D .1$

1. Opon the same baso, and on the same side of it, there eannot be fwo trianglos that hare their sides which are torminated in one extremity of the baso, equel to ono nnother, and likowise those whioh are terminated in the other extremity.
2 If a straight lino be lividod into two edpeat parts, and also into two unequal parts, the rectangle contained by the unequal parts, together with the square on the line between the points of section, is equal to the square on half the line.
2. If from the right augle of a right-angled triangle lines bo drawn to the opposite angles of the square described on the hypotonuse, the difference of the squares on these lines is equal to the differonces of the squares on th two sides of the tringhle.
[Use II. 12.]

## ALGEBRA.

1. Reduce to lowest terms $\frac{19 x^{3}+6 x^{2}-2 x-4}{12 x^{3}-6 x^{2}-4 x-4}$.
2. An express train leaves Loudon for Manchester ( 188 miles) at 9 a.m., travelling 40 miles por hour; a slow train leaves Manchestor for London at 11 a.m., travolling 20 miles an hour. When will they meet?
3. Solve tho equations :-
(1) $\left\{\begin{array}{l}7 x-16 y=12 \\ 5 x+17 y=80\end{array}\right.$

$$
\begin{align*}
& \frac{1}{1-x^{2}}-\frac{7}{8}=1-x-\frac{1}{1+x}  \tag{2}\\
& \text { MENSURATION. }
\end{align*}
$$

1. Find the length of a circular are whose radias is 20 ft .9 in ., and which contains an angle of $15^{\circ} 9$.
2. The sides of a triangle aro 18 ft ., 15 ft ., 18 ft . Find the two parts into which the greatest side is divided by the perpendicular from the opposite angle.

## 

## ONTARIO.

The High School Boards of Chatham and Lindsay are applying to the Education Department to be recognised as Eigh School3.

Owen Sound High Schoul has an average attendance of $20 \overline{5}$.
The second lecture in the Ontario Ladies' College was delivered on Friday evening, March 2ōth, by Prof. Macout, of Albert University ; subject, "The Nurth-West."

Brigdon S. S., Lambton, is in need of a new school building.
The St. Thomas Collegiate Institute has an average attendanco of 206 for February.

Change of Base.-Mr. Andren Hay, formerly principal of the Stratford public school, but lattrrly of Kingston, has been appointed mathematical master of the Eigh School at Ingersoll. As the change is presumably for the better, we congratulate Mr. Hay on having made it-Stralford Bracon.

The Bowmanville Statesman of March 11th contains the following: "The Minister of Education has promused to make Lindsay High School a Collegiate Institute."

Dr. Nelles lectured at the Ontario Ladies' College at Whitby on March 11th ; subject, "Mistakes in Teaching."

At a meeting of the St. Thomas Board of Education on Monday evening, it was decided to proceed immediately with the erection of two Ward schon-houses, and the Building Committee was instructed to purchase the necessary ground for the purpose. The Third Ward building will be located upon the south side of Spring street, whilo the Fifth Ward structure will adorn the east side of Ross street, between Myrtle and Furest avenue.-Lomdon frec Press.

Mr. Whitney, H. M. uf Iroquois High sichool, in a lecture on Walter Scott, before the Dundas Teachers' Association lately, oxpressed the opinion that the English "Literature" of the High School programme was the most usoful as well as the most entertaining subject therein.

We learn from the Quren's College Jommal that undergraduates, as well as graduates, will in future be allowed to vote at the election of a Chancellor of that Institution.
The Guelph Mfercury, March 3rd, contains a leader criticising the New School Bill. Exception is taken to the additions made to the compulsory part of the School Bill, while that already in the statute book is practically a dead letter, and to the withdrawal from the teacher of all cholce in the matter of text-books.

Wo are glad to notice from tho romarks made by Mr. Crooks in the Houso on Thursday, that all books in tho Dopository at Toronto that wonld bo usoful to the library of the Agricultural Collogo would be sorted out and cont there.-Guciph Mercury.
The Journal ale l'Instruction Publique, of Montreal, contains a wollchosen cullection of news and editorinl commont with regard to educational mattors anong our Catholic friends of the lowor provinces. Of enpecial interest is an account in tho Fobruary number of the Congress of Catholic Toachers at Montreal.
The proprieturs of this Jouppal have received with ploasure a letter from W. Mackintosh, Enblic School Inspector, of Madoc, which concludes thus: "The March Jounnal is a capital number; The Gavada Sehool, Jourade is making constant advancement."

## NOVA SCOTIA.

The following is the text of a bill, relating to highor education, introduced into tho Togislature by the Hon. Provincial Secretary on tho 16t! inst:

## 

## lhe it entefod, fác.

1. Chapters 27 and 28 of the Acts of this Legislature passed in the year 1876 are hereby repealed, but this repeal shall not affect the validity or continannce of nay degrees which have been conferred by tho Halifgx University under the provisions of said cap. 28.
2. The undermentioned sums shall hereafter be annually paid in aid of the Colleges hereinafter enumerated in lien of all other grants and allowances, that is to say, to Dalhousic Collego, $\$ 1,400$; to Saint Mary's College, Vinlifax, 91,400 ; to King's College, Windsor, $\$ 1,400$; tn Acad:a College, Wolville, 81,400 ; to Mount Allison Wesleyan College, Sackville, S1,400; Saint Francis Xavier College, Antigonisi, $\$ 1,400$.
3. The Superintendent of Elucation shall at least onco in every quas:ter visit each of the said Colleges, and examine into the mode in which higher education is therein, impartel, and make such enquiries as wi'1 emble lim fully to reprort, and he shall quarterly report to the Counci) of rublic Instruction upon the efliciency of cach of the sadd Colleges, givang details of the equipment and progress of each, and giving such other in. formation and details as may be required of him by any regulations of the Council of Pullic Instruction made from time to time.
4. The Council of Public Instruction may order to be withheld the grant to any of the Colleges hereinbefore mentioned in which the right of visitation as provided in tho last preceding section may bo denied, or in which the information referred to in said section is denied or erroneous. by given, and may withhold or suspend the grant from any College which they may pronounce inenicient, and the gramt shall thereupon be withheld until the further order of the Council of Public Instruction.
Our next month's notes will contain a reforonce to the discussion and fato of this bill. It is thought that Section 3 will be modified in Committee as to the number of inspectoral visitations of the Superintendent of Education. The introduction of the bill in advance of parliamentary discussion has induced a lively newspaper controversy. The principlo on which the grouts are apportroned, and the repeal of the Halifax University Act are vigorously challenged by the Aforming Chronicle and warmly defended by the Murning Merald.
The report of the Superintendent of Education was presented a fow days after the opening of the Iegisinture. The number of pupils at school during the year onded 31st October, 1880, was $93,700-\mathrm{a}$ diminution of 5,394 in comparison with tho previous year's attendance. In reference to this decrease the Superintendont observes :
"A careful examination of the returns proves the fact, to which $I$ have alluded in mother connection, that the decrease in attendanco is chiefly due to the closing of a certain number of schools, presumably from special and temporary causes. It will b, remembered that the winter season of 1879.80 was iclt in many parts of the Province to be one of pecular hardship and depression. Now, notwithstandug the gencral good sencs of the people, and the operative character of the legal provisions for sustaining schools, we should nut be surprised to find that in the casting about for measures of economic relief, education has been sometimes selectel as a fitting subject of retrenchment.
"In some countics, notably in Cumberland and Hants, where the reluction in the number of schuoly has been relatively large, the terrible ravages of diphtheria discouraged many Trustees from attempting to maintain what, under the circumstances, ould have been little more than the shadows of schools. I may also observe that the determincd efforts of the Council of Public Instruction to improve the character of the schools, to do justice to those who hold its own license to teach, and to elevate the profcssior of teaching generally, by limiting to cases of absolute educational necessity the issue of local permassive licenses, has cooperated to a slight extent with the foregoing causes. It will be inicrred that I regard the figures under consideration as indıcating but a temporary and special arrest of growth.


#### Abstract

"In suburitting for candid consideration the facts embodied in this report, I desire to record my conviction that no light peril now thrgatens our system of Publio Instriction from the prevalence of false notions of economy. I would refor my intelligent and patriotic fellow-countrymon, when thoy complain of tho buridens of public education, to the table (III.) which supplies details reapecting the salaries of teachers. These figures are obtained at first hand, aro in harmony with other financial returns, and are in the main entirely relinblo. They disclose a state of things which I make bold to say cannot continuo long without gerious detriment to the best interests of tho province. My hope that the previous year had seen the pendulum at its lowest point has not been fultilled. Throughout almost the entire range of the service there has beenti further, and in most cases, quito a marked, falling off in the avemgo salaries inaid to the men and women who are training the youth of Nova Scotia for the duties and responsibilitics of the future. I an happy to believe that many teachers are not laboring for bread alone, and, inspired by a high sense of duty, are prepared to render service without regand to rato of remuneration. But surely I need not point out the folly of trying to discount tho evil results sure to necrue from present tendencies by such a consideration. Value for valuo is the inexomble principle which regulates exchanges of all kinds. If the people, in their respective localities throughout tho Provinco, expect to have honcst, valuable work dono in their schools, they must be prepared to pay for it ; they must be prepared to respond to the action of our legistators, through whose patriotic preferonce of education to more material interests that part of the teachers' salaries depending on the Provincial 'I'reasury has suffered no abntement."


The proportion of the population attonding schonl during the yoar was 1 in 41 . The highest general average made by counties was me lo by Annapolis and Digby.

The total Government expenditure for the year was $\$ 196,217.80$, a reduction from the provious year of $\$ 9,3 \overline{0} 6,82$.
During the yoar there recoived licenses, one candidate for academic class (grado A), 47 for first class (grado B), $12 \overline{5}$ for second class (grade C), and 217 for third class (grade D).

## MANITOBA.

The regular meeting of the Council of the University of Manitobs was held on the 3rd of March.
The appointmont of Registrar, which should have occupied the attention of the meeting, did not take place. The Council decided that a special meuting should be called for the purpose, and appointed the Rev. W. C. Pinkham, B.D., Superintendent of Education, to act in the meantime.
It was moved by the Venerable Archdeacon Cowley, seconded by the Rov. George Dugart and unanimously resolved, that this Council cannot allow the resignation of Mr. E. W. Jareis to bo accepted without expressing to him their hearty thanks for the very ableand efficient manner in which he has discharged the duties of the office, and also their regret that he cannot longer give his excellent services in that behalf.

The statute relating to the Registrar provides that he shall be conversant with both the English and Fronch languages.
The Rev. W. C. Pinkham, seconded by Hon. S.C. Bigge, in Professor Hart's absence, moved the resoletion, of which he had given notice at tho last meeting, viz. : "To appoint a special committee to consider the questio: of the higher education of women, with a view to bringing it within the scopeand aim of our University work," and named the following : committeo His Grace the Archbishop of St. Boniface, convener; Rer Canon Grisdale, B.D., Rector of St. John's College Ladieg' Scheol ; Rev. J. Robertson, Rev. Professor Forget.Despalis, Rov. S. P. Matheson, B.D.; Rev. Professor Hart, M.A., B.D., and the mover, and the resolution was carried.
There is a greater activity than ever displayed in the organization of school districts and the cstablishment of public school. The St. James' School District has just decided to erect a very fine brick vencer school-house, and stops are being taken to enlarge the city schools to treble their present seating capacity. New schools are to be orected immediately at Sturgeon Creek, Pilot Mound, Ostrender, Lrouise, Perry, Calf Mountain, Prairio, Ferndale, and in several other distrists:

At a recent meeting of the Board of Education it mas decided that, " with a viow to the oncouragement of Teachers' Associations throughout the Provinco, the Protestant section of the Board of Education hereby authorizes the employment of the second Friday in March and the second Friday in October for this purpose, but these two days shall not be taken from the authorized number of teaching days (at present 200) in the school yoar."
During the past week a committee has been canvassing the city for subscriptions in aid of the site and new buildings for Manitobs College. Upwards of $\$ 6,000$ have been subscribed already.

## 

THE TEACHER.
Brother, does thy patience waver ?
Is thy heart oppressd with care?
Falter not ! thou art a graver,
Graving on*a tablet fairl
Weary not! thou art a writer,
Writing on a deathless scroll!
Painter, too! in colors brighter, Sketching truth, is sensons roll.

Murmur not thy great vocation
Calls for love, and zenl, and prayer;
Worthy knowledge, to a nation,
Pillar is, both firm and fair.
Firmly seek to do thy duty,
Opon daily wisdom's plan ;
Strive to train in moral beauty
Minds, tho noblest gift to man!
Grave upon each youthful spirit, Only truth can make it free!
'Feach that man can not inherit Greater good that liberty!
Write in bold and hiving letters, Knowledge is a priccless gem!
Plainly show tho galling fetters
Ignorance will bind on them.
Plant the seeds of every virtue
Both in heart and mentel soil!
Plant with care, with patience nurture ;
Conscienco will reward thy toil.
Watch with joy, thou mental florist, Buds unfolding day by day,
For the God, whom thou adorest, Blesses deeds of faith alway!
Think not thou to see thy teaching Bring its fruit before lifo'c close;
Deed like thine, far, far out-reaching
Lile or time, in action goes 1
Labor, then, to give tuition,
True and noble, high and vast;
And thou shalt have full fruition, When the days of time are past.
-G. W. Miner.
QUARRELLING.
Two little kittens, one stormy night,
Began to quarrel, and then to fight;
One had a mouse, the other had none,
That was the way the fight was begun.
"I'll have that mouse," said the bigger cat.
"You'll have that mouse! We'll see about that."
"I qill have that mouse," said the elder son.
"You con't have that mouse!" said the little one.
I told you before 'twas a stormy night,
When these two littlo kittens began to fight ;
The old woman scized her syeeping broom,
And swopt the two kittens right out of the room.
The ground was covered with frost and snow,
And the tro little kittens had nowhero to go;
So they laid them down on the mat at the door,
While the angry old woman was sweeping the floor.
And then they crept in as quiet as mice,
All wet with snow and as cold as ice;
For they found it was better, that stormy night, To lic down and sleep than to quarrel and fight.
-From the Independent Second Reader.

The city and guilds of London "Instituto of Technical Education" iave issuci. a poster to the science centres of England, with programmo of an examination in technological subjeots.

## ©eachers' sissociatioms.

The publishers of the Jounsal will be obliged to Ingpectors and Secretaries of Treadiers' Apsoclations if thoy will send for publication programmes oi meetings to bo held, and briof accounts of meetinga held.
Myskoha.-P. A. Switzer, Esq., finished his official tour of inspection in this district on Thursdny and Friday last, by presiding at the meeting of the Teachers' Institutc. This has proved a sery interesting and instructive session, from the number of teachers present, the sabjects descussed and the proportions of members nhu towh part in the discussions and deliberations. Mr. MeFarlane took up tho suljects of Grammar and Music, which he treated in a practical and common-sense way. Mr. Crasweller dealt with the subject of "Elementary Arthmetic"; Miss Coulter, "Reading", Mr. Fleming, "Senior Arithmetic"; and Mr. Dickey,"Gcography." This took up the whole of Thursday. Friday was occupied by Nessrs. Switzer, Sjmington, Nicholson, Fleming and Matthewson, who took up the sibjects of "Geography," "Numeral Frame," "Analysis," "Tablets," "Object Lessons" and "Composition." All these were treated in a thoroughly business-like way, kceping almays in view the requirements of tha district and the end and anm of teaching. Mr. McFarlane and Miss Kirlman were appointed nuditors of the Treasurer's accounts. A membrrship feo of 25 cents a year was imposed, and it ras agreed that a copy of the Canada School Joursal be supplied to erery member from the finds of the Institute. The next meeting of the Institute will be held at the village of Parry Sound, on Thursday and Friday, 18th and 19th August.

East Mridlesex. - The first regalar meeting of the Association for 1881 was held in the County Council Chamber, Arr. John Dearness, I.P.S., in the chair. Mr. Dearness read an interesting paper on the work done by the Association, in which be traced its progress during the last ten sears Mr. Girardut, Inspector of Essux Co., benng present, delivered an address. Afr. Sill took ap the subject of "Notation and Numeration." Mr. Ranton, Chairman of the Committee apponted to report on Superannuation, presented the report. Bev. Mr. Hunter then gave an addrese, in the course of which he said that there was no class of people whose work was so important to the nation, and su poorly paid as teachers.

Mricerin.-The teachers of the Soath Riding of Perth met at Mitchell on Peb. 25th. Mcssrs. D. G. McNeil and S. S. MacGregor were elected representatives to the Provincial Association. Mr. Cornell, of Mitchell, addressed the meeting on his "Method of Tcaching Algebra," and Mr. Moran, Inspector, spoke on "Hasty and Superficial Methods of Teaching." Mr. Buchan, High School Inspector, gare a ralaable address on "Gram, mar and Composition.'

Wist Tusmros:-A meeting of the Wiest Lambton Teachers' Aesocistion was beld at the Model School, Sarma, on Feb. 24th and 25 th, J. Brebner, Esq., in the chair. An address on "Parsing" ras read by Mrr. J. C. Bereriage, by Mr. Jas. Turg on the "Methods of Teaching Interest and Discount. Hiss Janet Patterion exemplifed her system of teaching "Reading" to a third class. With regard to the mportant question of Snperannuation, resolutions were passed adsocating compalsory payment, and fees from candidates for certificates.

## REVIEWS.

The Spini: of Edtcatron. C. IT. Bardecn, Syracuse. This is translated from the French of 3f. 1'abbe Beesan. This nork discusses in a thoughtiful and practical manncr the great question of how to educate the whole being, not merely the intellect. Infancy, carls sears, south, the intellect, the heart, the will, manners, consersation, the art of speaking well, exterior graces, character, sid nork form the titles of the chapters into whici it is divided, and through it all runs a rich rein of common sense and picty. Xothers as well as teachers wonld be greatly bencfited by the work.

Morratt's Readnas is Gzognpirs. London, Moffatl d Paige. The aim of the author has been to present to the minds of children the leading facts and principles of Geography in plain and simple langage. so as to form a suitable Reader to pisce in the hands of young children. The practice of giving instraction as a means of using Readers in somo of the other school stadies is becoming popalar in England. The book would help teachers of junior classes to prepare their lessons.

Sogiz Kinsmatos Dramno Curds. By Mojatl d Paige. Leares and Vaser. This is one of the best series of cands we have seen for freehsnd drawing ; the rases are especially excellent.

4 Mastai or Scoorsmone for Tencang Frachons. By W. W. Davis. Syracuoc, N. Y., C. IF. Bardect, Publisher. Price $\$ 5$ cents.

This manaal was originally written torccompany a fractional apparatus
designed by the author, consisting of large wooden balls divided into halves, thirds, fourths, sixths, eighths, ninths and twelths-the specinl idon being that whilo a child looks upon each of the halves of a broken stiok as itseil a stick, and hence a unit, he readily sees that a half or a thind of a ball bears a fractional relation to the entire ball.
But the book ble a value entirely apart from the apparatus it was designod to accon pany. The wholo subject of tractions is divided into sixty lessons, so as to occupy just a term, and the successive points are developed with a skill that can come only from careful stady and long oxperience. It is a book which young teachers may rely upon, and older ones may look to for suggestions which cannot fail to be of service.

## magazines.

 ary, March and $\Delta$ pril numbera of thin beautiful magasine, whlch the pabllehers offer for \$1.00. Mra. Burnett's story, "A kair Barbarian," ja alone worth the money-and in addition there it a collection of isteratare and art which must prove a sonree of delight and calture in any houshold. 1 featurs of the April number in the article contationg the prise engravinge mado by the succosafal competitorn for the Seribncr prizes for non-profesulonel engrevera. "Father Hyacinthe," with isplendid portralt; "Elementary Inatraction in the Hechanic Arts"; "The Greatest Activo Volcano," and " Marine Forme as 4 pplicablo to Decoration," are the most interesting articlet for teechers. The Editorinl Department is of course good.
Tifi Popolaz scixyce Moxthly for Aprit. There are fitteon artioles in the April Popular Sciemos Afonthly, all of thom readeble and lastr ietive, and several of them of great practical ralue. Herbert Spencer opens the number with his alxth paper on "The Derelopmenta of Political Inatitutions," In which
 determine the concentration of anthority, and power of chlefs, kings, otc. "The Black Haces of Ocoenica," by Dr. R. Vornean, is an illuatratod article de roted to a study of the craninl and facial charactoriotics of the principel nogro recos of the Pacifo Ialabds. Dr. Folix I Oswald continues his commoz-lense treatment of the subject of "Phymical Education" in an article on "Ont-door Life" He ciaims, and with reaion, that as a natural prevertivo of disomes, nothing equala actire exercico in the open air; and for respiratory allmente eopecially, it is faperior to anything eleo as a curative agent. For the houlthfal development of chilloren it is indirpensablo, and with ite associated opportanition may be proitably subatituted mact of the drill of the sohoolroom. The notes are nurgally foll.
The contents of Applston'b Journal for April aro an follows: " $A$ Quention:

 H. Eooper; Oliphant's "Lend of Gilomd"; "On 8ome of Shakerpearc"s Fomale Charactors" (II). Portis, by Holon Favelt Martin: "Groek Dinners," by F. A.
 Ghost: or Winthrop's Adrentare," by Vernon Lee; "The Callph Haroun Alris
 rows of the Chace"); "Conoerning the Choerfalnom of the Old," by ㄴ. X. ت. B. (the Conntry Parson). Edicos's Tastas: Carlyio as a Thinker-The Engith Entimate of Carlyio-Tact not a Special Feminins Qpallty.-Norza yon EnabThe.

A Technical Library has been opened by the Government of Brussels, with foreign periodicals, and every important modern work of science, logination and the fine arts.

The Schoolmaster (England, Feb. 1881), advocatee the abolition of the system of Senior Wrangier lists at Cambridge, on the ground that the exclurive application to mathomatics of young mon till the age of trenty-tro causes neglect of other branches of education.

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