The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique. which mav alter any of the images in the reproduction. or which may significantly change the usual method of filming, are checked below.Coloured covers/
Couverture de couleur

Covers damaged/
Couverture endommagés

Covers restored and/or laminated/
Couverture restauré et/ou pelliculéeCover tit!e missing/
Le titre de couverture marique

Coloured maps/
Cartes géographiques en couleur


Coloured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)Coloured plates and/or illustrations/
Planches et/ou illustrations en couleur

Bound with other material/
Relid avec d'autres documents

Tight binding may cause shadows or distortion along interior margin/
La reliure serrèe peut causer de lombre ou de la distorsion le long de la marge intérieure

Blank leaves added during restoration may appear within the text. Whenever possible. these have been omitted from filming/
Il se peut que certaines pages blanches ajoutees lors dune restauration apparaissent dans le texte. mais. lorsque cela était possible. ces pages $n$ ont pas ére filmes.

L'Institut a microfiime le meilleur exemplaire qu'il lui a éte possible de se procurer. Les détals de cet exemplare qui sont peut-ètre uniques du point de vue bibliographique. qui peuvent modifier une image reproduite. ou qui peuvent exiger une modification dans $l a$ méthode normale de filmage sont indiqués ci-dessous.


Coloured pages/
Pages de couleurPages damaged/
Pages endommageesPages restored and/or laminated/
Pages restaurees et/ou pelliculees


Pages discoloured. stained or foxed/
Pages decolorees. tachetées ou piquèes

Pages detached/
Pages détachees


## Showthrough/

TransparenceQuality of print varies/
Qualité inégale de l'impression

Includes supplementary material/
Comprend du matériel supplémentaire

Only edition available/
Seule éditıon disponible

Pages wholly or partially obscured by errata slips. tissues. etc.. have been refilmed to ensure the best possible image/
Les pages totalement ou partiellement obscurcies par un feuillet d'errata. une pelure. e:c.. cr:t été fi!rrèes à nouveau de facon à obtenir la meilleure image possible

This item is filmed at the reduction ratio checked below/
Ce document est filmé au taux de réduction indiqué ci-dessous.


# The Canada School Journal. 

Vol. I.
TORONTO, OCTOBER, 1877.
No. 5.

REV. JOHN McCAUL, M.A., LL.D.

Few teachers in Canada are so well known, either to their fellowteachers or the general public, as the accomplished voteran who presides with so mäoh ability ànd tact over University Colrest Toronto. For nearly forty years he has labored devotedly and successfully in the interest of higher education in Ontario, and there is no teacher at present living who has had more, or more distinguished pupils. The benefit he las conferred on the Province by his professorial labours alone is very great, but even that falls short of what he has done for the cause of higher education by the part he has taken in moulding the oharacter of our educational system and of our national university. A man of very ordinary ability, tact, and learning, could hardly fail in the course of forty years to leave his impress on the commanity, systems, and institutions with which he might be connected; but Dr. McCanl is no ordinary man in any one of these respects, as all who have ever had the pleasure of coming in contact with him are well aware. He has the rare faculty of being able to impress his views apon others without arousing to any great extent that spirit of opposition which every reformer of established systems must expeet to encounter, and either orush or disarm ; and the consequence is that he has been able to kee ${ }_{1}$ on the even tenor of his way, discharging his academical ${ }_{\text {c. }}$ and socialyduties with great success and littlo display, until he has at last reached the proverbial threescore years and ten.
Dr. McCaul was born in Dublin, in 1807, and received his education in his native city. He graduated in Trinity College, and even at that time took high rank as a profound classical scholar. He was appointed Classical Tutor and Eraminer in the University, and whilst acting in these capacities edited valuable editions of several Greelk and Latin texts. His edition of the Satires and Epistles of Horace is a model of taste and accurate scholarship, and is still popular amongst students, notwithstanding the great number of laboners in the same literary field. As an author, however, he is best known by his researches in Greek and Latin Epigraphy. In his reading of Britanno-Roman insoriptions he has displayed an acuteness, ingenaity, and oradition whioh have won him deservedly a high position amongst the classical scholars of the day. The meaning of many fragmentary inscriptions, which had
before he nttempted to explain them bafled the skill of all who had attacked them, was made so plain as to make it appear singular that they should have held out so long. His "Christian Epitaphs of the First Six Centuries" has met amongst scholurs and critios a reception just as favorable as that which greeted the "Britanno-
 perennius of which any classical veteran might be proud.
Dr. MoCaul was appointed to the Principalship of Upper Canada College in November, 1888, and he entered on the active discharge of bis duties early in tue following year. This institution had then been in existeace for ten years under its prosent title, and for some time longer as one of the Royal Grammar Schools. As early as 1797 .steps were taken in the Parliament of Upper Canada to

(From a photograph by Notman \& Fraser.) funds of the endowment." In 1880 the College went into operstion in its new form, and in 1889, as already mentionsd, Dr. McCaul became its Principal. In 1828 a Royal Charter had beon granted for the establishment of the University of King's College, which was to be endowed with the grant of land already set apart for the advancement of higher edacation, though it was under the control of the Charch of England. In 1887 this charter was, with the Royal consent, amended so as to make it no longer compalsory for either students, graduates, professors, or members of the College Council, to subscribe to the Thirty-nine Articles. The political troables of that stormy time prevented anything being done under the amended charter until 1842, when the foundation stone of the building was laid by Sir Charles Bagot, and in 1848 the institution
went into operation with the late Bishop Strachan as President, and Dr. McCaul as Vice-President and Professor of Classics, Logic. Rhetoric, and Bollos-Lettres. The Univorsity Lad at that time a Cbair of l'heology, but by the Act of 1849 this was taken away and beveral important changes were made. The name was changed to the "University of 'Toronto," it was made strictly nonsoctarian in character, and some altorations were made in its constitution and government. In 1858, other changes no less important were effected, amongst which was the abolition of the Chairs of Law and Medicine, and the separation of the Collegiate from the University functions, making University College, nominally at least, a separate corporation. The constitution romaned unchanged thll the Act of 1873 made now alterations in the constitution, without, however, radically changing the charaoter of the institution. While it was undergoing these various modifications, Dr. McCaul occupied uninterruptedly the ohair to which he had been at first appointed, and which he still oncupies. He became Prestdent of the University in 1849, and when the separation of corporations took place in 1853 he was appointed President of University College and Vice-Chancellor of the University of Toronto. The former of these positions he has occupiod ever since. In che successive revisions of the University curriculum since 1843 he has always taken a prominent part, and although a great clussical scholar himseif he has never shown any disposition to prevent the broadening of the curriculum in such directions as modern sciontafic progress called for, but quite the reverse. The introduction of Modern Languages and Natural Sciences, and their elevation into Departments, took place with his entire concurrence, if not on his own motion.
His administration of the affairs of the College over which he presides has been very successful. His intercourse with the students has always been marked by unvarying kindness and affability. He has taken a deep interest not only in their intellectual progress, but also in their amusements and recreations. Of the Literary and Scientific Society he has been from its inception a warm friend and patron, and he has always encouraged and promoted such a degree of devotion to athletic sports as was not incompatible with either physical health or acadomical progress. It is needless to say that he has won for himself a high degree of popularity amongst his students, and that with hundreds of the élcèts of the College who have gone out into business or professional life the recollection of his unvarying kindness is far more enduring than the feeling of admiration for his learning, his ability, or his finished rhetoric. His style of public speaking is well-nigh iaultless, as those who have heard him preside year after year at Collego Convocations know, and few who have ever been privileged to listen to him translating the finer passages of Demosthenes will ever forget the high character of the intellectual treat they enjoyed. In the promotion of objects of public and social interest he has always taken an active part, and in no respect has he conferred greater benefit than by assisting in the cultivation of a taste for high classical music, and indeed for art in all its branches.

## THE LIMITS TO PHYSICAL CULTURE.

We have frequently had occasion to dwell upon the fact that, while moderate physical culture is a great benefit-indeed a necessity, to insure a proper balance of mental and bodily powers, and consequent health and longevity-physical over culture is a great evil, leading to results diametrically opposite to those sought to be attained. At one end of the series is a constitution weak and unfitted to resist disease or the effects of labor; at the other an organization strained to its utmost, and ready to yield under the slightest addition to the stress. Obvinusly between these extremes there must be a mean, up to which all culture is beneficial, and beyoud which all is over-culture. The question is, however, whether that mean is in the nature of a personal equation for every one, differing for each individual constitution, or whether it is possible to formulate general laws, true for all systems. The tendency of modern investigation in all cases relating to the science of living, is generally favorable to the latter view. Mr. Charles Darwin sends out his formulated questions the world over, and deduces results from replies proportionally considered. Candolles doos the same in his elaborate investigations into the antecedents of scientific men; the statistics relative to the recruits for our army wo have shown, in recent articles, to admit of valuable deductions relative to our national characteristica ; and we might add numer-
ous examples, all showing that that which is proved true, on the average, for a large number of persons, may with reason be assumed to be true of an entire clasa, or even a race, when surrounded by gonerally similar conditions of life.

Now, in the case of physical culture, the point specially to bo detormined by actual physiological investigation is, to what extent the budy may be benofited. This known, any one may easily discover for himself when the limit is reached, and will understand that to carry his training still further is a positive disadvantage and injury. Such an investigation has lately been made by Dr. Burcq, of Paris, in the Ecolc de la Faisanderie, a gymnasium where are drilled the soldiers who are destined to be the gymnastic instructors of the French army. No better set of men could be aelected for examination, for the reason that each individual is virtually intended hereafter to serve as a model for others, and therefore his physical culture is brought to the best possible state. Dr. Burcq continued his investigations with the utmost care and minuteness for six months, during which period the progress of over a thousand men was cosely watched and criticised. As a general result, he tells us now that gymnastic exercises-

1. Increase the muscular forces up to 25 and even up to 38 per cent., at the same time tending to equilibrate them in the two halves of the body.
2. Increase the pulmonary capacity at least one-sixth.
3. Increase the weight of men up to 15 per cent., while, on the other hand, diminishing the volume. This augmentation exclusively benefits the muscular system, as is demonstrated by its elerated dynamonetric value.
And Dr. Burcq further observes that, during the first half of the six months' course at the school, the increase of force was most markedly noted.

To Dr. Burcq's admirable studies upon this bo.'y of trained gymnasts may be added those of M. Eugene Paz, who for a long period has begn observing the results which methodical physical exercises produce in certain invalids and in a large number of people of various callings, notably artists, literary and business men, and others whose muscles are normally less voluminous than those of the picked soldiers at the Faisanderie School.

By means of a variety of ingenious mechanical apparatus, and by a course of investigation whrlly different from that of Dr. Burcq, M. Paz reaches precisely the same results. He notes especially the increase in weight and decrease of volume of the body above referred to, and also the augmentation of pulmonary capacity. Three operatic singers viho were rigorously trained for a year attained a maximum lung power corresponding exactly to an incresse of one-sixth. It follows, thewfore, that Dr. Burcq's results may be considered in the light of a general law, and likewise as a guide to what is correct physical culture. In tbis view we commend them to the attention of college authorities and stu-dents.-Scientific Americal.
-Superintendent Wickersham, of Pennsylvania, in the recent meeting at Lonisville, said of tochnical education: "I have seen large classes come out of our High School and go baok home without a qualification for anything. Our people are partly right in saying that the common schools are not doing what they should for the common people. It would not be a bad thing if half the tıme of the girls were taken up in learning sewing, telegraphy, wood-carvinr, and other arts of like nature. I believe that it is practicable that the work for girls may be divided in this way. With boys the case would be more dificult, but we find in Europe that they do the same with boys. I am not sure but that if half the money expended in the schools of our cities were expended in the erection of shops to teach the boys and girls trades, it would be better."
-Among the countless vagaries and cruelties of parental despotism none is fuller of harm than the senselees haste in teaching children "their letters." At a time whe. 1 the little ones are still aglow with the first ecstasies of budding life, parental despotism thrusts a dead book in the child's face, with the peremptory order to learn to read. Reading should not be tanght the child, therefore, before his taste for independent work, his appreciation of his own powers, his faith in his own resources are sufficiently strong to cnable him to resist the charms of a morbid fancy; it should not be tanght before he can make use of it for the legitimate parpose of the art; and it should be tanght him, though in ever so narrow limits, with constant.. reference to these parposes.-The New Education.

## WORDS AND PHRASES.

"A Roland for al Oliver."-Roland and Oliver were two of the most famous in the list of Charlemagne's twolve peors, and their oxploits are rendered so oqually and ridiculuusly extraragant by the old romancers that thence came the expression of giving a "Roland for an Oliver," as aignifying the notoriety of one big lie or extravagant act by another equally unreasonable.
"To die in the last ditch."-Hume says that the origin of this phrase may be ascribed to William of Orange. When Buckingham urged the inevitable destrustion which hung over the Onited Provinces, and aske'a William if he did not see that the Commonwealth was ruined, the prince replied, "There is one certain way by which I can be sure never to see my conntry's ruins,- I will die in the last ditch.' "
"Rope in." -This phrase originated from the old-time custom of gathering the hay of a meadow by means of a long rope drawn by a horse, thus "roping in" a whole windrow at a time. Passing into common use, the term has acquired the unpleasant mcaning of getting or securing without regard to circumstance. "Rope them in in some ray," is often said.
"Bogus." In the year 1837 one Borghese passed through the Southern and Southwestern States and passed off a large number of checks, bills of exchange, etc., signed by himself, swindling a large number of people. His transactions were so numerous that his namo became notorious, and with a rapid way of pronouncing it soon became "Bngus," and this is often applied to fraudulent transactions or worthless paper.
"Go suacks."-At the time of the plague in London, there was a noted body-snatcher named Enacks. Wishing assistance in his inoreasing business, he offered to any one who would aid him onehalf the profits. Of this assistant it came to be said "He goes with Snacks," and finally, "He goes Snacks," equivalent to "He zoes halven," or shares equally.
"Pipe-laying."-This term had its origin in a fictitious and treacherous correspondence which pretended to give an account of the method by which voters from Philadelphia were brought to the polls in New York, while the fraudulent scheme was concealed under the form of a contract for the laying of water-pipes from the croton aqueduct. The whole scheme was devised for the purpose of casting odium upon a political party. It, however, made so deep snd general impression upon the public that the terin pipelaying was at once incorporated into the dictionary of political terms, and is still used to designate the employment of men as voters (who are not entitled to vote) by fraudulent means. C. N.
"Shilly-shally."-The expression indicative of indecision is said to be a corruption of "Shall I, shall I." Some rhymster thus gives it :

> "Cheer up your hearts, your spirite rally,
> And no'er stand fooling, Sball I, shall I";
> But budge, jog on, bestir your toes,
> There lies the way, follow your nose."
"He's caught a Tartar."-In some battle between the Russians and Tartars a private soldier of the Russians called out, "Captsin, I have caught a Tartar." "Well, bring him along," said the captain. "Ay, but he won't let me," said the soldier. The fact was, the Tartar had caught him. So when a man undertakes to overresch another, and gets taken in himself, it is common to say, "He's caught a Tartar this time."
"Kuck the buck e."-One Bolsover having hung himself to a beam while stand ag on a bucket, completed the work by kicking away the bucket. He "kicked the bucket," and so died.

Blackguard.-1 1 olden times the palaces of kings and seats of nobles were not o well nor so completely furnished as now, and hence when any o the nobility exchanged one residence for another, all kitchen atoissils, kettles, pots, pans, etc., were taken with them. The servants who rode in the cart or wagon with these articies were called the "Black-guard." From being applied to a class of persons who, though menials, might have been honest and well-disposed, it has come, with us, to bo applied to a low and scartifoois class of persons.

$$
E_{i}^{+1}
$$

Resulis not Sern.-The best teachers do a work nnknown and unseen. Whoever says to his class of boys or girls that which strengthens the weak, improves the ignorant, encourages the downhearted, gives nuw hope to the discouraged, softens and cultures the rude and boorish, does ancork equal to that the angels
of heaven undertake. His labor may seem to bo nothing in the eyes of those who simply look to seo the results that business brings forth: houses, lan's, money and fame. Yot it is just such work that is needod to vitalizo conscionce and infuso ideas. A country is rich if it has many such men and womon at work-poor if it has few.
-In the orgauization and management of educational forces it is notorious that in several must important respects we are far behind many of the European and other nations that have had the sagacity to borrow from us the grand conception of universal education, and tho wisdom vastly to improve upon many of our mothods of administration and detall in the working of the system. In England, for example, the educational movement is dirceted by many of the ablest and most ominent porsonages in the realm, and as a consequence England is making far more rapid progress in popular education to-day than the United States. In no branch of the puthe service is there greator need of both heart and brain than in this. Honesty, capacity, fidelity to the public interests, a clear conception of the onds of education, and of the means by which these ends are to be secured, are the need of the hour. From this service, the aims, ambitions, and methods of the self-sceker, the ward politician, and the demagogue should be rigorously excluded. Those who would make an educational office a temporary shift, a stepping-stone to something else, should be forever barred from holding it. Merit, experience, a perfect famaliarity with all grades of the work, a nice perception of its true motives and mothods, and of its bearing upon life, character, and the interests of society at large, should be the sole passport to its positions of trust and responsibility. When school boards are thus constituted, when superintendents are made of the stern stuff of sterling manhood, when the rights of true teachers are properly respected, and their services are adequately compensated, when educational tramps are quietly laid upon their appropriate shelves, and when permanence is assured to the men and ncomen of brains who are willing to consecrate themselves to the service of education, we shall hear less complaint of its cost, and witness results more nearIf commensurate with the public needs, and not before. The sooner this lesson shall be learned and asted upon the better for the schools, for the people, and for the interests of the country as a whole.-Educational Weekly.
-The folluwing is taken from a momorial read before the Common Cuuncil of Buffalo by one of the school principals, while that body was considering tho propriety of reducing teachers' salaries: "The torm of service is in most cases only for a limited period of years. Many of our best teachers soon find that they must abandon the schoolroom on account of impaired health. They must therefore remain without remunorative employment, and soon live upon their scanty savings, or else cmbark in some business for which they have neither taste nor the requisite training. The inevitable result is too often financial ruin. The case is different with other professions. At an age when the teacher is most likelf compelled to retire, the successful lawyer is just entering upon his most lucrative practice; finally he reaches the bench loaded with honors and riches, while his classmate that outstripped him at college lives in poverty and obscurity because he became a teacher. The business of the merchant grows and expands from year to year until it gathers such volume and impetus that only his sons and successors will finally reap the full harvest. You can read dead men's names on the signs of prominent business houses, but when the teacher dies his business and his capital sink with him to the grave. But aside from these great drawbacks the vocation of teaching tends materially to shorten humanlife. A carefully prepared table taken from the Massachusetts Bureau of Vital Statistics shows that out of thirty-four professions and occupatious named, only one is less farorable to longevity than teaching. The combined average duration of life of the farmer, mechanic, merchant, lawyer, physician, and clergyman, is fifty-three years; that of the teacher is only thirty-four years."
-An editor, evidently henpecked, says that "if in our schooldays the rule of three is proverbially trying, how much harder in after life do we find the rule of one ?"
—Schoolnaster-"What is the meaning of equinor ?" Pipit (who knows something of Latin derivations)-"Please, sir, it'/ Latin for nightmare."-Punch.

- An opponent of the public school system insists that if you teach a boy to write, he is much less likely to make his mark in after life.


## EDITORIAL COMMITTEE.

J. A. Mcleldan, M.A., LL.D., High School Inepector. THOMAS KIRKLAND, M.A., Bcience Master Normal School. JAMES HUGHES, Publio School Inspector, Toronto. ALERED BAKER, B.A., Math. Tutor University Coilege, Torunto. WM. HOUSTON, M.A.

## PROVINGXAL EDITORS.

J. M. BUCEAN, M.A.. High School Inspector.

Ontamo. G. W. ROSS, M.P., Pablic School Inspector. $^{\text {G }}$ J. C. GLaSHaN, Pablic Sohool Inspector.

Quebrc. $\left\{\begin{array}{l}\text { W. DALE, M.A., Rector High School. } \\ \text { S. P. ROBINS, M.A., Supt. Protestant }\end{array}\right.$
New Brunsmict-J. BENNET' Pl D, Supt City Bohe, Montreal.
Nova Scota.-F. C. SUMICARAST, Regiatrar, Univeraity of Halifax.
MANITOBA.-JOHN CAMERON, B.A., Winnipeg.
Britibi Colombla.-JOHN JESSOP, Saporintendont of Education.
Prince Edward Island.-J. Harper, is.a., Principal Normal School, Charlottetown, P. E.I.

## CONTRIBUTORS.

REV. E. RYERSON, D.D., LL.D., late Chief Sap't of Education.
J. G. HODGINS, LL.D., Depaty Minister of Education.
vaniel wilson, Li.d., Professor of History and Englibh Literatare, University College, Toronto.
REV. S. S. NELLES, D.D., LL.D., President of University of Victoria College.
REV. H. G. MADDOCK, M.A., F.G.S., Fellow of Clare College, Cambridge, Professor of Classics Trinity College, Toronto.
M. McVICAR, Ph.D., LL.D., Principal State Normal and Training Sohool, Potsdam, N.Y.
REV. A. F. KEMP, LL.D., Principal Brantford Yoang Ladies' Collego. GEO. DICKSON, B.A., Collegiate Institute, Hamilton. REV. J. R. JAQUES, Ph. D., D.D., President Albert University. PROF. JOHN A. MACOUN, Albert College, Belleville. REV. Prof. G. M. Meacham, M.A., Numadza, Japan. WM. JOHNSTON, MI.A., Prin. Agricultural College, Guelph. JOHN A. MscCARE, Drincipal Normal Sohool, Ottawa.
DR. S. P. MAY, Secretary Centennial Educstion Committee. PROF. J. E. WELLS, Cansdian Literary Institute, Woodstook. REV. J. J. HarE, B.A., Ontario Ladies' College, Whitby.
JAMES CARLYLE, M.D., Math. Mastor Normal School, Toronto. GEO. BAPTIE, M. i., Science Master Normal School, Ottawa. WM. SCOTT, B.A., Head Master Model School, Tozonto.
R. LEWIS, Teacher of Elocation, Toronto.

PROF. R. DAWSON, Belleville.
J. J. TLLLEY, Inspector Pablic Schools, Durham.
A. MACALLUM, M.A., LL.D., Inspector Public Schools, Hamilton. W. D. DIRNOCK, Head Master Prov. Model Schoole, N.S. G. WALLACE, B.A., Principal High Sohool, Weston.

## Thy Carada \$thool Inomal.

TORONTO, OCTOBER, 1877.
THE CHARGES AGAINST THE CENTRAL COMMITTEE.

During the last few weeks a number of grave charges have been made, some of them anonymously, against the members of the Central Committee, and circulated through the press. The charges of wrong-doing are mixed up with criticisms on the policy of the Education Department, and with other charges against one of the members of the Committee, which only indirectly relate to the matters at issue. In so far as the Committee is charged with the responsibility of having proposed and inaugurated certain recent changes in the High and Public School systems, the only reply necessary, over and above that already made by the Chairman, Professor Young, is to point out that the Mínister of Education, and he alone, is responsible for such of these charges as have taken place since the change of regime, and that the late Council of Public Instruction was responsible for such of them as took place prior to that event. The Minister, no mstter from whom he asks
or receives advice, must after all act on his own responsibility, and therefore he has, as might have been expected, carefully excluded all questions of policy from the Commission of Enquiry which has been issued by the Lieut. Governor in Council on his recommendation. The official announcement states that the Commissioner is the Hon. C. S. Patterson, one of the Judges of the Court of Appeal, that the witnesses will be examined on oath, and that the investigation will be into "such charges as have recently appeared in the nr wspapers, the allegations of which involve the personal honor or integrity of members of the Education Department."

The principal charges that will form the subject of investigation are, therefore, the following :-(1) That in preparing his examination papers Dr. McLellan was acting in collusion with Mr. Kirkland, Science Master at the Toronto Normal School; (2) that his object was to promote the circulation of a work on "Statics," of which Mr. Kirkland is the author ; (3) that some years ago he sought and obtained the assistance of a High School Master in drawing up his mathematical papers both for the Teachers' Examinations.and for the Examinations of the University of Toronto; (4) that several members of the Committee have acted in collusion with the publishing house of Adam Miller \& Co., and have imparted to that firm such information as enabled them to secure the copyrights of a number of newly authorized text-books, and that J. M. Buchan, M.A., who acted as Chairman of the sub-committee on the authorization of English Grammars, was the principal offender in this respect ; (5) that members of the Committee have from interested motives secured the stoppage of the Journal of Education, and that in some way they have in connection with that event obtained control of and misappropriated certain Departmental funds. The investigation into these and other charges will no doubt be as thorough as the Hon. Commissioner can make it with the evidence he may be able to elicit. The more complete it is the better, for no small amount of evil has uiready been done by the circulation of such grave accusations against men who hold such responsible offices as those of Examiner and Inspector. It is to be hoped that those who have formulated the charges anonymonsly will come forward promptly and state what ground they had for circulating accusations so serious in themselves and so well calculated, if unfounded, to undermine public confidence in the administration of the Depart.ment of Education.

## SHOULD TEACHERS BE PAID FOR VACATIONS 1

From a report of the proceedings of one of the village school boards of this Province we learn that two of the teachers who had ceased teaching at the commencement of the summer holidays bad to threaren legal proceedings in orler to recover their salaries for the vacation. The trustees unwisely at first resisted the claim, but on taking legal adrice they found that a suit in Court would inevitably go against them, and in order to effect a settlement they had to pay the salaries for nearly a month after the vacation-up, in short, to the time when tho matter was finally disposed of. Nor did the board surrender with
very good grace. Tacked on to the resolution authorizing paymont of the claims in full, was a rider expressing, in very emphatic terms, the "opinion that the law with reference to these cases is decidedly unjust and unreasonable." Here wo must join issue with all who think so, and their namo is legion. In order to make perfectly clear our position on this question we shall show what the !aw is, and why such a law was enected. By so doing we hope to be able to make even recalcitrant boards of trustees see that the legislative provision is a perfectly reasonable measure of protection for the tencher against the encroachments of selfish boards. The eighty-first section of the Consolidated High School Act of 1874 (37 Vic. cap. 27) reads as follows:
"Every master or teacher of a Publio or High School, or Collogiate Institute, shall be entitled to bo paid his salary for the authorized holidays occurring during the period of his ongagement with the trustees, and also for the vacations which follow immediate. Iy on the expiration of the School term duriug which he has served, or the term of his agreement with such trustes."
No one is likely to dispute the fairness of the first part of this section, and therefore it demands no particular attention. The portion regerded by many as "unjust and unreasonable" is that part we have italicized in the above quotation. And yet it requires but a momont's consideration to see that it is at least as equitable as the part so readily assented to. The object in hoth provisions alike is to compel trustees to pay salary for the whole yoar instead of paying for the time actually taught, and or.itting the vacations. Now it can make no possible difference to a school board, in so far as the justice of the enactment is concerned, whethor the teacher who begins the year goes on teaching to the close or not. If he does, they expect to have to pay him for his legal holidays; if he does not, they should in the samo way calvulate to pay either him or his successor the amount due as salary for the vacations. It makes no difference to a board of trustees whether they pay $A$ for his holidays occurring in the middle of his engagement, or pay him for a vacation of the same length intervening between his engagement and that of $B$ who takes his place. To draw any distinction between these two cases is both "unjust and unreasonable." And wl.y should trustees object to paying salary for the holidays, no matter who receiveit? It takes the vacations as well as the Schocl terms to make up a year, and no reasonable school board can expect to get off with payment of salary for only a part of each year as it passes. Whether the holidays are too numerous or not is a natter about which there may be an honest difference of opinion, but we can see absolutely no ground for finding fault with a provision which does not fix the length of the vacations, but is intended to prevent parsimonicus boards from making a few dollars at the expense of their schools and teachers by hiring the latter by the term instead of the year. Were it not for the above enactroent it would be possible for trustés $t w$ engagu a teacher from the first of January to the seventh of July, pay him off, and reengage him or engage sores other to teech from the seventh of Angust to Christmas. In this way they would save something like half a quaiter's salary each year, but at what a sacrifice in other directions!

A word to teachers on this subject. Never, if you can possi-
bly avoid it, be a party to a violption of the spirit of the law by assenting to such an arrangement as will free your bourd from the necessity of raying aalary for the holidays. You owe as m .ch as this to your profession, to say nothing of justice to yourself. On the other hand, never do anything which bears even the semblance of taking unjust advantage of a provision intended to afford you only reasonable protection. Cases like the.following arn not infrequent. A teacher whose engagement is for the whole year wishes to resign at the commencement of the summer holidays, and the trustees generously accept his resignation believing that they are doing him an act of kindness. Great is their surprise in settling up with him to find a claim presented for salary for the holidays. We have no hesitation in saying that such a claim is unjust and unprincipled in the lust degree, and although the letter of the law appears to favour its validity, we have our doubts whether any court of competent jurisdiction would enforce payment. Equity demands that in a case where the contract is broken at the request of one of the parties, that party should desire no other advantage from it except such as were in view at the time. Teachers who are guilty of sharp practice of this sort are unworthy members of a noble profession, and it is they, and not those who are fairly entitled to claim their salaries, who really bring the enactment into disrepute. Fortunately school boards can always protect themselves by coming to an understanding about the salary question before consenting to accept the resignation of their teacher. We have no objection to their paying him the extra sum, but rather the reverse. What we condemn is the sharp practice involved in first securing the consent of the board and then putting in a claim which the trustees never thought of while conferring, as they supposed, a favor on the teacher. When both parties are disposed to deal jairly the law will be found to be perfectly equitable in its operation.
-A Bill has been introduced into the New York State Legisiature to provide for the inspection of the ventilation and sanitary arrangements of schools. This is a step in the right direction. Plants become dwarfed if placed in unfavorable circumstances while growing, and it is impossible to estimate the amount of dwaring of body and mind that results from the placing of young children in unhealthful school houses.

## $\mathscr{C}$ ontributions and Comresponjente.

THE STUDY OF ENGLISH IN OUR SCHOOLS.

> BY G. A. CEASE, B.A.

## $I$.

It cannot be said that Ontario is indifferent to the value of popu. lar education., The amount of attention paid to educational matters by our legislature, the frequent revision of our schcol-law, together with the energy and the interest in their work shown by the authorities, clearly manifest that this question is regarded as one of paramount importancè. It is very evident, too, that while schools of all kinds are being establishnd, and ample provision
made for thoir support and officiency, $n$ change in our ilens is taking place as to what is the proper aim of education among us, and what are the meaus best adapted to secure that aim. Tho idea thant the study of the Latin and Greek classics alone constituted education bas passed away: these could not satisfy the domands of our busy, practional timos. We havo not yot fully decided upon the comparative merits of the compotitors for the place racated by classics. All partios, however, are agreed upon ono point,-that the study of our own langungo must hold an important position in the education of our children, -they must learn to speak it correctly and writo it corroctly; and furthermore, this end, a very important one, is to be obtamed through the study of English grammar.
The question may be fairly asked whether this method of obtain. ing a knowledge of our language is the best one,-or rather, whethor the method in vogue in our sohools will secure the ond aimed at. The torm "the study of English grammar," or "Eaglish," as it is now commonly called, though including sevoral things, as parsing, analysis, derivation of words, synonyms, \&c., is practically regarded as meaning parsing and anaiysis alone. It is to be feared that this way of dealing with "English" fails to meet the required resr $\quad$ 't.

When the child for the first time enters a school-room, he has already a good supply of words; he can ell all his wants, make known all his thoughts in language nearly, if not quite, as good in its way as that of the teacher,-fully as good as that of the home from which he came. The task, tien, that lies bofore the teacher is to increas. the number of the child's words as the understand. ing will bear it, and to improvs the style of his language if needed. This is fairly stating the question. As soon, therefore, as the child can well read, our educational system requires that he should take up the study or English grammar. How this is done we all know. With some few variations in the mode of stariing, the child commits to memory a number of technical terms with their definitions, and then does his best to apply thom. He learns, for instance, that "a Noun"-and this is the easiest of all the terms-" is the name of any person, place or thing;" it has a Nominative Case, a Possessive Case, an Objectivo Case-singular and plural; he picks out tolerably well all the nouns in his reading-lesson when they refer to tangible objects; when this is not the case, he is wholly at a loss. And so it goes on from one "part of speech" to anotier, -from one term to another-Adjective, Pronoun, Case, Relation, Mood, Government-words lacking in all intelligent meaning to the child, and which no amount of pains and patience in the teacher can make clear. If "parsing" and "analysis" mean anything, they mean an examination into the structure of language, the reason of form and arrangement,-in short, the philonophy of language. Thus our system of education forces upon the undeveloped mind the study of one of the most abstruse of sciences; and what at a later time affords the keenest pleasure is now but a meaningless task. The study of language as a science-its structure, the forms and relations of its words-yields in interest to no other: it demands as mature powers as the study of any other science does. The deeper we study the more we feel that words are not dead things that move as we move them; they are the espression of the liviug tiought within; and he who would study langage must stady thought itself.

It may seem unnecessary to say, but it is important to be borne in mind, that in studying English we are dealing with, not a foreign tongue, but our own native one. Its words first fell upon our ears; we imitated it from those around us; it grew with our growth, associating itself with everything we hold dear. No "rule" for form or position was given us: wo watched, wo imi-tated-that was all. In short, language seemed to come to us as
if it wore a natural development of our organization. It is quite cortain that this same mothod, in prinoiple, must bo oarried out in our schools before our youth onn obtain a soand knowledge of our language. Far differont is the course parsiaed in learning a foraign tongue. Instena of being a natural, unconsoious process, everything is artificial. The idiom of no two languages is alike; forms and constructions are different; hence rulos, \&o., must be givenfor the process is mechanical-tolling what different forms the words assume, when to use thom, and how they aro to be arranged in a sentenco. Tho distinction between the two processes is wide, and patent to everybody. Yet our grammar-books say in offeot that the mothod is the same in both cases-that English must be studied as a foreign tongue is studiod! We owe this, donbtless, to the fact that when compolled to give instruction in English, the teachers of Latin knew no other way to do it than that employed with this foreign tongue. Thus a meohanical process is forced upon us when the natural should be the only one.
Our teaching of English prooededs upon a false theory. It supposes that a knowledge of the teohnical terms of grammar is necossary to a knowledge of the language. In what way does this knowledge of terms increase our grasp of langaage? No one will say it extends the vocabulary; it cannot improve the style, it adds nothing to the force and clearness of expression; and no one will pretend that the amount of fact is increased thereby;-these things must nil be sought elsewhere than within the covers of a grammar-book, and they are alohe what an ordinary sohool education should be required to give in language ; all else is a waste of most precious time. An appeal might be made to the common sense of educationists in this respect. Let them not be carried away by prejudice where so much of vital interest is at stake; this subject must be tested by its merits and so judged ; it is time we gave up these traditions in teaching. We laugh at the subjects of grave dispute among the medimpal sohoolmen and oloister-philosophers; but the learned discussions on the "paraing" of such words as "blow" and " sweet" in "John strack George a blow" and "Sugar tastes aweet," are equally absurd from an ednoational point of view : teacher and scholar and dispatant each knows what the sentences mean, and knows no more: if they think they do know more, they are only doluding themselves.
It may be urged that a knowledge of grammar is needed to prevent mistakes in the use of the different forms that words assume. This touches a rint of practical importance. But surely it wili not be said that our elaborate system of grammar is necessary to meet that difficulty, more especially when those forms in the use of which errors may be made are only five or six! Some other way than the one pursued can assuredly be found-a way that will not require this year after year of weary, meaningless plodding in "parsing." Many teachers seem to have the idea that the rales laid down in the grammar-book make the language, and that every sentence must be tramed in accerdance with them. Soroly puzzling is it then to find in all the masters of our tongue expressions and forms that set "rule" at defiance; and very entertaining are tho discussions that these "violations" give rise to. Yet languago goes on its way, grammarians and pedagogues cotwithstanding. Let it once be thoroughly understood that "mule" does not make language, and our teachers and pupils will learn to look for "gram. mar" elsewhere than in books bearing that name. The principles and practices that gride the use of our few grammatical forms will be readily, almost insensibly communicated in an informal manner by the teacher who knowe his work. Subject, and word, and illastration can be pitched to the capacity of the pupil; voice, and look, and gesture, all combine to send home to the understanding ideas that the dead letter of the book would fail to do. What I plead for in education is intelligence : that nothing should be given
to the ohild that is monningless to him; that his understanding should aocompany all that is taught him; that not until his mind has been fairly developod, and can grasp abstract idons, should he bo put to study tho phenomena of Inngaage with whioh thought and mind aro so closely conneoted.

Professor Whitney, of Yale University, makes the following remarke, among others, in tho proface of his lately published " Essontials of English Grammary:" "That the lending objeot of the study of English grammar is to teaoh the correct use of English is, in my view, an error, and ono whioh is gradually becoming romoved, giving way to the sounder opinion that 'grammar is the reflective stady of language, for a variety of purposes, of which correctness in writing is ơly one, and a secondary or subordinate one-by no means unimportant, but best attainod when sought indirectly. . . It is constant use and praotice, undor nover-failing watch and correotion, that makes good writers and speakers; the application of direct authority is the most effioient corrective. . . . One must be a somewhat refleotive user of language to amend oven here and there a point by grammatical reasons." Ho goes on to say that "the pupils should be made both at home and at school to use their own tongue wit'l accuracy and force, with the addition of an oceasional grammatical rule or distinotion; but no formal grammar must be intruded."

## 

Communications intonded for thie part of the Jounsar should be on separato sheets, writton on only ono sido, and proporly paged to provent mistakos. ALFRED BAKER, B.A., EDITOR.

The following papers ware set at the recent Matriculation Examinations of the Uuiversity of Toronto. The solutions of the more difficult questions only ran given.

## ARITHMETIC AND ALGEBRA. <br> pass.

1. Perform the following operations by short methous :-
$479 \times 125 ; 878294 \div 99 ; 84687 \times 820648$.
2. Prove that $\frac{2}{7} \times \frac{8}{6}=\frac{4}{85}$.
3. Prove in a particular case the rule for reducing a mired recurring decimal to a vulgar fraction.

Find the value of

$$
\frac{.2 \dot{8}-\left(\left(s-\frac{23}{10}\right)\right.}{. \dot{4} \dot{5}-.11 \dot{8} \dot{6}-\frac{1}{11}} \text { of } £ 1+\frac{. \dot{6} 7142 \dot{8}-\frac{8}{21}}{2 \frac{2}{7}-1 \frac{1}{28}-1 \frac{1}{8}} \text { of } 1 \text { guinea. }
$$

4. Without making a "proportion statem3nt," determine the interest on $\$ 750$ for 9 months, if th. interest on $\$ 500$ for 6 months be $\$ 26$.
5. Bank of Commerce stock is $w \cdot$ rth 120, and pays a dividend of 8 per cent. per annum. Find the income from 100 shares, and the amonnt obtained by the sale of them, allowing the broker a commission of $\frac{1}{1} \mathrm{per}$ cent.
6. A man has real estate from which he receives an income at the ratc of 10 per cent., without allowing for taxes. On both income and property he is taxed at the rate of $19 \frac{1}{2}$ mills on the dollar. At what rate is his property tared altogether?
7. A grocer mixes 40 gallons of whiskey at 75 cts., 40 at $\$ 1.50$, and a cortain number of gallons at \$1. After keoping the mixture a year, by selling it at $\$ 1,85$ a gallon, he would have gained 20 per cent. profit, end 0 por cent. interest on his capital ; brit owing to a leakage he gains his interest and $16 \frac{1}{2}$ per cent. profit. Find the number of gallons that leaked out.
8. Without actual division,
(1.) Find the remninder on dividing $x^{4}-8 x^{3}+4 x^{2}-2 x+1$ by $x^{2}-x+1$.
(2.) Shew that $a^{2}(b+c)-j^{2}(c+a)+c^{2}(a+b)+a b c$ is divisible by $a-b+c$.

## 9. Siruplify

(1.) $\frac{x^{2}-a^{2}}{x^{2}-b^{2}} \times \frac{x^{2}-(a+b) x+a b}{x^{2}-(a-c) x-a c} \times \frac{x+b}{x^{-2}-\frac{b}{-2}}$.
(2.) $\frac{a(s-a)^{2}+b(s-b)^{2}+\frac{1-c(s-c)^{2}}{(s-a)(s-b)}(s-c)}{(a c}$, where $2 s=a+b+c$.
10. Solve the equations-
(1.) $.8 x-\frac{.04-2 x}{.5}=7 x-\frac{. c}{.3}$.
(2.) $\frac{b-a}{x-b}+\frac{3 x(a-b)}{x^{2}-b^{2}}=\frac{a-2 b}{x+b}+\frac{a x-b^{2}}{x^{2}-b^{2}}+x-a$.
11. A man is to row over a certain course in a certain time. By rowing at the rate of 4 miles an hour, he would arrive 5 minutes too lato; and by rowing at the rato of 5 miles an hour, ho wonld arrive 10 minutes too early. Find length of courso and timo of rowing.
12. Solvo the equations-
(1.) $x^{2}-25 x=9$.
(2.) $\frac{1}{a x-1}+\frac{1}{a x+1}=1$.
(8.) $x^{n}+\sqrt{x^{n}-8}=15$.
18. A room is 20 feet long, 16 feet wide, and 12 feot high, with openings of aroa 94 square feet. It takes as much piastering as another room, which is as long as broad, 10 feet high, and whose openings liave an area of $70 \frac{1}{2}$ square feet. Find length of second room.

1. $878294 \div 99$, Whatever number of hundreds a number oontains, it contains an equal number of ninety-nines, together with an equal namber of units. Thus 878294 contains 8782 ninetynines, with remainders 94 units and 8782 units. Similarly with the remainder 8732. The process may be arrangod thus:

| $8732 \mid 94$ |
| ---: |
| 87 |
| $8821 \mid$ |
| 82 |
| 87 |
| $\frac{18}{18}$ |
| 2 |

2 being added to the remainder, because 200 contained in the sum of the remainders contains 99 twire with 2 remainder.
In $84687 \times 820648$ it will be noted that the multiplier is composed of $8,64(8 \times 8)$, and $820(8 \times 8 \times 5)$, and the multiplication can be performed in three lines.
8. Ans., £4 5s. 4d. 4. \$52.65.
5. $\$ 800, \$ 11987.50$. The shares are supposed to have a nominal value of 100 , which in the case of the Bank of Commerse is contrary to fact.
6. He pays $1.9 \frac{1}{2}$ p. c. on value of his property, and $1.9 \frac{1}{2}$ p.c. on 10 p.c. of value of his property, i.e., $2 \cdot 1 \frac{10}{20}$ p. c. in all.
7. He sells at $\$ 1.85$ a gal., and gains $26 \mathrm{p} . \mathrm{c} . ; \quad \therefore$ cost of this is $\frac{100}{126} \times 1.85=81.07 \frac{1}{4}=$ cost of mixture. Now let him take 1 gal. at 75 cents, and 1 gal. at $\$ 1.50$, and an unknown number at $\$ 1.00$. The first two cost $\$ 2.25$ and sell at 82.14t, i.e., he loses $10 \& \mathrm{c}$ c.ats; and this is balanced by the gain of $7+$ cts. on each of the $\$ 1$ gals. $\therefore$ there are 10$\} \div 7\}=1 \frac{1}{2}$ such gals. and $\therefore$ in all 60 gals. at $\$ 1.00 . \quad \therefore$ entire cost $=75 \times 40+1.50 \times 40+1.00 \times 60=\$ 150$. And he gains 22 f p. c. on this, $i$ e., he receives $\$ 188.76$. $\therefore$ number of gals. sold $=\frac{188.75}{1.85}=1868$. But number of $g^{\text {als. }}$ bnught $=$ $40+40+60=140$. $\therefore$ leakage equals $8_{i}^{-}$gals.
8. (1) In the dividend substitute $x-1$ for $x^{2}$ as often as it ocours, until only first powers are loft in the dividend. Ans., $x$. (2) In the dividend substitate $b-c$ for $a$; result will equal zero. For proof of methods see Loudon's Algehra, § 95 ; Colenso's, Pt. II., § 9 ; Gross's, Appendix to Pt. I., § 9 .
9. (1) $-\frac{a^{2} x^{2}}{x+c}$.
(2) -2 .
10. (1) is. (2) a.
11. $x=$ length of course, $y=$ time ; then $\frac{x}{4}=y+\frac{1}{1-2}, \frac{x}{\overline{6}}=y$ $-\frac{1}{6} ; \therefore r=5 ; y=1$ hr. 10 min.
12. (1) -2 and $4!$. $2 \frac{1}{11}(1 \pm \sqrt{2})$. (3) $\sqrt[n]{12}$ or $\sqrt[n]{19 .}$
13. Area of cother romm is 1160.25 sq . ft. ; and if $x$ be its length, $\left.x^{4}+40 x=1100 \cdot 2, x=19\right\}$.

## EUCLID.

1'ASS.

1. What is the difference between Euclid (branch ef seience) and Geomotry?

What objections are there to the use of such $n$ symbol as $(A B)^{2}$ in Euclid?
2. By the rethod of superposition provo that if the angles at the indee ut a tranegle are equal, the sides wheh are opposte to theso angles are also equal.
3. To draw a straight line through a given point parallel to a given straight line.

Provo this also without using Prop. 23.
4. Tho opposite sides and angles of a parallologram are equal to one another.

One diameter at least of every parallelogran is greater than any side.
5. In obtuse-angled triangles, if a perpoudicular be drawn from biticer of the acute angles to the opposite side produced, tho square on the side subtending the obtuse angle is greater than the squares on the sides containing the obtuse angle by twice the rectangle contained by the side on which when produced the perpen:icular falls, and the straight line mercepted without the trianglo b.tween the perpendicular and the obtuse angle.

If $C$ be the obtuse angle, $A D$ be perpendicular to $B C$, and $E$ be the bisection of $B C$, shew that the square on $A E$ is equal to the squares on $A C, C E$, with the rectangle $B C, C D$.
6. To describe a squaro equel to a given rectangle. Give solution.
7. From a point without a circlo only two equal straight lines can be drawn to it.

By a direct proof shew that the line bisecting the angle between equal straight lines drawn to the circumference, passes through the centre.
8. The opposite angles of a quadrilateral iuscribed in $\Omega$ circle, are together equal to two right angles.

CAD, EBF are common chords to two circles which intersect in $A$ and $B$. Shew that the figures $A E, A F$ can bo so placed that the sides of one shall be parallel to those of the other.
9. To cut off a segmont from a given circle, which shall contain an angle equal to a given rectilineal angle.

Given the radius of the circumscribing circle, the vertical angle, and the perpendicular from an extremity of the base on the opposite side, construct the triangle.
10. If a chord of a circle be divided externaily, the rectanglo nader its segments is equal to tho rectangle under the segments of any otber chord divided externally in the same point.

## 8. The figures may bo proved equiangular.

9. From the circumscribing circle cut off a sogment contrining an angle equal to the vertical angle. From one end of the chord of this describe a circle with radius equal to the given perpendicular, and from the other end draw a chord of the former circle tnuching the latter. The remainder of construction is evident.

We are asked for the solutions o. the following problems:

1. A person bought a piece of land for $\$ 1000$, to be paid for in five years, with interest at 10 per cent. He was allowed a choice of two modes of payment: (1) ho could leave the principal unpoid till the end of five years, paymg tho interest due annually; (2) he could pay $\$ 200$ of the principal each year, together with the accrued interest. Money being worth 10 p. e. compound interest, determine whether one of these modes was more profitable than the other, and how much his land ultimately cost him.
2. A morchant bought 400 lbs of ton and 1600 lbs . of sugar, the cost of the lattor per pound being 16 per cont. that of the former. He sold the tea at a profit of $33 f$ pe: cont., and the sugar at a loss of 20 per cont., gaining, however, on the whole $\$ 60$. Find his buying and his solling prices.
3. Evidently, since oither is an equitable way of discharging the dobt, oue cannot be more profitable than the other, compound interest being ellowed throughout. Any one may satisfy himself of this by finding the present worth of all sums paid, or thoir amount at the end of five years. As for the second part, to speak correctly we would say that the land cost him $\$ 1000$, as it is to bo prosumed he began to dorivo a profit from the land as soon.as he bought it. If, however, by "ultimately" is implied tho nmount of all sums pail at the end of five years, the namwer is $1000 \times(1 \cdot 1)^{4}=\$ 1010.51$.
4. Since sugar cost 162 p . c. cost of toa, 1 lb . tea $=0 \mathrm{lbs}$ sugar ; $\therefore 400 \mathrm{llss}$ tea $=2400 \mathrm{lbs}$. sugar. On tea ho gained $88 \%$ p. o., i.e., ono-third, i.c., 800 lbs sugar. On sugar he lost one-fifth, i.e., 320 lbs. sugar; $\therefore$ on wholo he gained 480 lbs. sugar, and this equals 860. Heuce cost of sugar $=12 \frac{1}{2}$ cts. ; cost of toa $=12 \frac{1}{2} \times 6=75$ cts.; selling price cf sugar $=12 \frac{1}{2}-2 \frac{1}{2}=10$ ots. ; solling price of ton $=75+25=100$ cts.

Subscriber, Lansdowno.-Your post-card of Aug. 28th, being merely directel "Toronto," did not reach us till Sept. 14th. The following are the corrections of the errors in Entrance and Third Class Examination Papers:

## ENTRANCE:

8. 603 should be 703. Rest is correct.
9. 387.50 should be 887.25 ; and then answer is $\$ 2.77{ }_{7}$ 务.
10. ${ }^{3} 0$ should be ${ }^{2} \sigma$. Rest is correct.
11. Latter part should be,-and 612.80 is discharged with $(357.44 \mathrm{t}-1089.84) \times 612.80=\$ 210.65 \mathrm{Aus}$.

## THIRD CLASS.

1. In auswer, 6702 sliould be 1702.
2. Should be, $-\therefore 1=40 \times 1.097 \div 9$, and $18 \frac{1}{6}=\frac{40 \times 1.09 \frac{7}{2}}{9} \times$

3. Should be,-square of breadth $=\frac{6 \times 4840+900}{8}=9980 \mathrm{yds}$. $\sqrt{9980}=99.89+;$ length $=299.69+$.

## 

Quorios in rolation to methods of teaching, discipline, school managoment, \&c., will be answored in this dopartmont.
J. HVGHES, EDITOH.

## OBJECT LESSONS.

A very large number of teachers say thes cannot teach object lessons because they cannot get the objects-they really mean the curiositics-necessary. What $\mathfrak{a}$ destitute condition they are in, to bo sure! No live teacher who can see need walk a mile even in the country without obtaining a large supply of objects for lessons; true object lessous. There are grasses and ferns, shrubs and trees, flowers and fruits, insects and birds, shells and stones. These have peculiarities, differences, and analogies, which enable us to distinguish them as individuals and classify them into groups, and they certainly afford amplo material for years of object teaching. It is not the inanimate object so mumb as the living teacher that makes the success or failure of an object lesson.

The greatest difficulty in connection with object teaching is to get the majority of toachers to understand that its hignest function is not to give information, or atore the mind with knowledge, bnt to develop the faculties of the mind, to train it to acquire knowledge systematically and use it practically, and to stir it up to healthful activity in making original investigation. Most of the books publisked on this subject tend to spread and perpetuaie this orror. They are mere compendiums of information. As such
thoy are vainaile, but the trouble in connection with thom arises from the fnct that thoy lead teachers to believe that the muterials for a lesson are of more importance than the method of giving it. This is a griovous error, and truo object tonching will not make muoh deoided progress until it has been oxposed and removed.

The aim of object teaohing is to coutinue, after a child goes to sohool, the same plans in educating a child which naturo ndoptod before that time. It dovelops the faculties in the natural order. The first to be trained is the power of observation. Hon. Carl Sohore lately said: "Any syatem of cducation which fails to teach. a child to see, to hear, and to reproluce correctly is essentially faulty." Sight is a faculty ; seeing, an art. All our conceptions come to us through our observant powers-through our senses. It is therefore of the utmost importance that they should be fully doveloped. The extont and acutoness of development possible can scarcely be catimated.
It is not enough, however, to see; we should observe with iefinite aime. The children must be taught to form couceptions or ideas as the result of their observations. A writer in the National Teachers' Monthi'y sajs: "I don't want my boy to go through tho world with his eyes shat. Who discovered the attraction of gravitation? Who the phosphate under our ovin soil? Who invented the steam engine or telegraph? Plainly some one who was able to think, and did think, and who thought because he observed things."

They mast be led gradually to compare the parts and qualities of various things, to notice the adaptation of the parts to the uses they perform, to discover the differences or analogies and relationships of different things, to classify things into groat families according to their agreement in certain peculiarities, and lastly to draw correct conclusions and arrive at just and definite decisions. Porception, conception, judgment ; this is the natural order of the growth of the mind. One of the fundamental principles underlying the whole syatem of object teaching is, that the child must work for himself. He must see, and conceive, and compare, and conclude for himself. His faculties mast grow by orave exorcise. My musoles would never grow strong and wiry, if I simply looked at another man lifting dumb bells or swinging Indian clubs. Neither will my mind grow unless it works for itself. Faraday sayc that "a deficiency of judgment is the most common intellectual fanlt." It must continue to be so while ourboys and girls get their conclasions ready made for them in their sohools.

## DRIL工 IN SCHOOLS.

## I.

As Drill and Calisthenics now form a part of the programme of work laid down for the Publio Schools of Ontario, we purpose giving in a series of articles an explanation of the parts actually prescribed.

## giving instruction.

The teacher should stand in front of his boys, so that he can be seen by all. He should go througb the movements slowly and definitely as he oxplains them. In this, as in all other sabjeots, the ege should te the medium of information rather than the ear.

The verbal instruction given should bo as little as possible. .The explanations for drill given in books must be in detail, so that the teschers themselves may thnroughly comprehend the movements; but repeating these explanations literally is not teaching "drill" any more than repeating the rules of grammar is teaching that subject.

The toachor should explain tho movements very briofly in his own words and by his actious. Great oare should be taken to have the mations and movemouts dono very acourately. The 9xtension moticns, for instanco, if done in a caroless manner, may do harm instead of good. No slovenly positions or movements should be allowod to pass unchocked. One of the most important results of the drill should be an improved bearing and a more graceful walk.

Words of cosmand.
Words of command consist of two parts : cautionary and exachtive. The first part proparos for what is to come; the second is the signal for the immodiate performance of the movemont desired. Both parts should bo utterod clearly. The first part should be spoison slowly and deliberately, and the second, aftor $a$ definite pause, sharply and in a louder tone. It is very important that the two parts of the command should be separated by a panse. The mothod of giving the commands may be indicated as follows:Stand at-rase ; right $\alpha$-bout-TVRN; \&c. The foregoing rule does not applg to the words and numbers given in the Extension Mrotions and Balance Step, where the words mast be given sharply when the motion is to be quick, and slowl; and smoothly when the motion required is of that nature.

## PREPARING FOR DRILL.

The class should fall in in single or double rank according to the number in it, and should have the tallest at the flanks, and the smallest in the centre of the line. Never begin drill, after the boys have fallon in, without first giving the order, Attention By the Right-Dress, (or Touch your Right, and Dress)-Eyes-Frort.
It is evident that boys will not have room to perform their movements properly if they stand side by side in line. It becomes nececsary to extend them in some manner so as to allow free motion of the arms. If the number is not too great the required separation may be secured by

## DRESSING A SQUAD WITH INTERPALS.

 Eyes-Ryozt. $\left\{\begin{array}{c}\text { On the word Right, the squad will glanee the eyes } \\ \text { to the right, turning their heads slightly in that }\end{array}\right.$ direction.(On the word Dress, the whole will raise their right arms (except the one on the right of the squad), and, with the palm of the hand tarned
DRges. right with the tips of their fingers, stepping baokwards or forwards with short paces, until they oan just discern the lower part of the face of the boy (next but one on their right.
The Instructor will, from the right, correct the dressing, ordering the boys to etep forward or backward singly, as may be requisite, and when
Eyce-mbont. the dressing is completed he will give the worda Eyes-7noNr, on which the whole will tum thair heads to the front, looking in the same direction, dropping the right arms to the side at the same time.
Dressing from the left will be taught in the same manner, the command being, Eyes Left-Dress; and when the words Eyes-Front are given, the head and oyes mast be tarned to the front. A tendency to lean the head forward when dressing will be observed, which mast be instantly chooked.
For a large cless this method will extend the rank or ranks so far-that the instructor will not be able to see those at the extremes, so as to control them, nor will the pupils be able to see his illustrations of the movements. The simplest and most effective method of isolating the members of a class of from 20 to 60 is to have them "fall in" in two ranks, the rear rank being onte pace behind the front rank. The front rank should at the proper command advance, of the rear rank retire 6 paces. Tho instructor should then give the command:


The teacher will now be able to see every boy in his class, and every boy will have ample room to perform any movement required.

## PHOPER POSITION AT DRILL.

Give word of command : $f$ On which the boys must stand npright, body aud shoulders square to the frout, head erect, but not thrown back, heels in line and tunching each other, toes separated, fo that the fect may form an angle of $45^{\circ}$, bnees
Atien-tion. $\{$ straight, arms hanging casily down by side, palus of hands turned towards thighs, thumb and forcfinger cluse to seam of trousers, and with the other fingers pointing domnwards, | eyes straight to front. Weight of body should l be on fore part of feet, not chiefly on heels.

## PENMANSHIP IN PUBLIC SCHOOLS.

liy TV. 13. Romhson, Teacheri of Pr.nhanship, Ontario Blesisess College, Belleviliz.
(Cuntinnel frum page 3(1.)
rennoldivg.


The tro rests-F, finger . G. aususcuiar.
Hold the pen or pencal between the first and second fingers and thumb, as illustrated, lettme it cross the forefinger just above the bnuckle-joint (A) and the second finger at the root of the nail (B) one inch from the point of the pen. Hold the pen so that botis points ( $C$ ) tonch the paper, and the top of the holder (D) points directly townrds the shoulder. The thumb should bo bent outward at the fi.st joint, nad press the holder at point (E) opposite the first joint of the forefinger. The first and second fingers should tench as far as the first joint of the first finger. The third and fourth must be curved and separate from the others at the middle joint, and so bent under that the hand shdes on the face of the nails (F). The arm should rest lightly upon the fleshy part ( $G$ ) of the forearm. Tho icrist should never be allowed to tonch desk or paper.

## RESTS ARD YOVFINENTS.

The rests aro the muscles in front of the elbow ( $G$ ), nad the nails of the third and fourth fingers (F).

There are four distinct morements used in writing, viz.: the whole arm morement, produced by lifting the arm ontirely from the dest, and moring from the shoulder ; the forcarm or musealar
movement, being the movement from the miscular portion of the arm which rests upon the desk, tho hand gliding upon the moveable rost of the third and fourth fingers; the finger movoment, produced almost wholly by extonding and contracting the first and second fugers and thumb; anil.the combined movement, whioh is the muscular and Inger movemont together. The latter is the movement most used in writing, as it unites strength with exnctuess in the formation of letters. Special attention to this movement is of the greatest importance. It is the foundation of skill in oxecution; without it good, rapid writing is impossible.
The first excreises should be practised on slates until position and movoment are learned and the pupils become familiar with the formation of letters. A plan I have seen successfully adopted is to have the slates all ruled on one side with light permanent lines, properly spaced. Copies should be as nearly perfect as possible in order that proper ideas of form may be impressed on the learner's mind from the beginning. The first lessons must proceed on the same plan as drawing, and, indeed, can be termed nothing but pencil drawing of the letters and words used in the copy.

On account of the tendency of young pupils to break slates and lose pencils, it is much hettor for the teacher to take charge of them. Monitors may be appointed to pass the slates and pencila, and their duties should be arranged in accordance with the seating of the school room. They should be appointed as a mark of favor for proficiency or good conduct, and taught to look apon the position as a vers honorable one.
The plan of conducting the exercise may be something after the following order:-
: -- Prepare for acriting; when all other work should be laid aside and desks cleared. A given signal should thea bring ap the monitors to pass slates and pencils.
2.- Write the copy plainly on the bnard, so that the entire class may see it. Let it bn a letter, a succession of letters, or a word, according to the profisiency of the class.
3.-Explain how yon require it copied, and point out the mistakes likely to be made and explain how they may be aroided.
4.-Gire the siganl Commence Writiog. The tracher should then pass around among the pupils correcting position at desk, pencil holding, mistakes in formation, \&c., until the exercise is about half over, when he should illustrate on the bosrd the principal errors he has obserred while passing arounl, and call on the pnpils to name the differont mistakes and tell how they should be corrected. Tho last five minutes may profitably be devoted to criticism of the writiag by the papils themselves, permitting them to erase and correct any letter with which they are not satisfied.
5. The monitors should at the close bring up the slates and pencils and deposit them in their proper places, and when an opportnnity is afforded they should be carefully examined and marked by the teacher.

A certain nnmber of recognized errors in the exeroise may be counted a failare; a less number, imperfect; and no failures in leading featuras may constitute a perfect lesson.
The principal difficulty at first is drilling primary papils on position, pencil-holding preparing for the exercise, s.ad closing. About oue-half the time during the first week should be spent in drilling on these particulars.
Great care should bo tatien to explain all the orrors for which they are to bo held accoantable beforehand, with ample illustrations noon the blackboard of correct and inoorrect formation.

On the last schocl day of each week the pupils should be called apon to prepare a line of each copy, word, and figure praotised during tho week, and from these copies and the merit marks the monitors for the next week may be appointod.

This mothod may after a time be combined with the spolling exeroise, and errors in both writing and orthography noted at the same time, using a distinct mark to indicate cach.

As soon as pupils havo been taught to form all the letters and combine them into words, short sentences should follow, and the child may thus be taught to write before the pen and ink are introduced.

The objections made to the uso of tho pon aud inti by small children are, that they are apt to blot and deface their books and injure olothing and forniture. I would, however, advise their introduction as soon as tho pupil has made sufficiont progress to use thom with any degree of proficioncy.

HOW TO READ.
BY RICHARD LEWIS.
(Continued from page 49.)
I have suggested the nature of the first steps in cultivating the speaking voiee-the breathing exercises. Let us now conceive the breath, which in the various ways indicated wo expel, suddenily ccaverted into sound, and we are on the high road to the proper voice exercises. The great end to be kept in view in such practice is the cultivation of a pure tone, which not only is the most agreeable, but tho best for all healthy and permanent action, and the easiest to sustain in continued reading and speaking. Such a quality of voice is valualle to all ; but to professional men whose duties tax the roice, to lectarers, olergymen, public spenkers of every kind, and, not the least-for none have their voices taxed more heavily-to school teachers, the possession of a healthy, puretoned voice is indispensable to continued asefulneas and success. The vocal exercises that secure this quality of tone are simple. The mouth being well opened, the lower jaw dropped so as to leave a full opening for the emission of sound, the larynx depressed and the avala raised, the conditions for healthy exercise are established. The voice is poured forth with suctained energy, but nut with any of the violence that creates irritation of the delicate organs. Let the teacher and the papils sound the most sonorous vowels, ah, oh, a, ave, ee, for ten or fifteen minutes at each practice, and in a short period the best results will be manifest. There are other exercises all tending to the result-the production of pure and healthful tones. The voice may be thrown out in continuons jets, as in a hearty ringing langh; it may commence with gentleness, swell in power as it advances, and then taper off at its termination; it may be expelled with sudden force; it may be prolonged with continuous force, as when sailors bail, Ship ahoy; it may be sent forth in the deepest tone (pitoh) and gradually ascend to the highest reach of its compass and then descend. All this practice, however, must be performed on system and in harmony with the delicato structure of the organs. There mast be nothing harsh, no forcing of the roice which leads to pain, and the greatest care taken to avoid rough, coarse, guttural or nasal sounds, or tones made up of half breath and half voice.

- Let it also be understood that all these exercises have for their end the acquisition of good habits and agreeable tones. The gymnast, tho ranner, and the pedestrian, do not in daily life bring into action all the exeroises through which they pass; but it is these exercises which give vigour to the limbs ard. graceful easo to every muscular action. In the same manner tho systomatio exercises indicated in these papers will give power and sweotness to the tones of the voice. The best vocalists, actors, and orators, have not only the greatest sirongth of lungs, bat in the calmness of social intorcouree, or in the expression of sympathy and pity, their voices_are noted for richness, sweetness, and dalicacy of tone.

The last qualification is that of distinct artioulation. A finishod utterance marks only the cultivated reader or speaker. He needs nover repeat his words or shout to be heard. Every word reaches the ear, even if delivered in the suftest tones-even in whispers,because every word is finished. Now there is no effect more common in general reading or spoaking than that which leaves the great masses of words unfinished in utterance. We listen to a child read or to a public speaker, and we complain that we cannot hear the reader or the speaker. We mean that we cannot understand. The articulation is imperfect, and as it begins in the household and the schoolroom, it falls upon parents and teachors especially to demand this complete articulation as the first condition of good speoch. Words consist of consonants and vowols, and bad articulation is due ohiefly to the imperfect utterance of consonants. Every consonant has its own sound, and overy system of teaching to read is atterly imperfect which does not begin, and continue, and ond with regalar practice in sounding the consonants. Words should be taken to pieces, sounded letter by letter backwards, forwards, every way, with marked distinctness and energy. When a papil pronounces a word indistinctly, the remedy is to lead him to sound each fletter and each syllable with exceeding distinotness; and this practice should be systematic, and with classes, simaltaneous. There is always a tendency to ran one word into another, so as to leave the preceding word nnfinished in articulation. Thus in reading "safe from temptation," the careless reader leaves out the $f$ of safe and sounds the words as if written safrom temptation. This habit is almost universal. It marks alike the school-boy's reading and speech, and the dolivery of the preacher or the senatorial orator. The principlo on which correct articulation is based is simple. There are two operations necessary to completeness of utterance; the organs are fixed for sounding the letters, bat the sound is not completed without the action. Thus in sounding safe, the lips are pressed together, but the sound of $f$ is not heard nnless they are reopened, and a second replacement of the lips is required for tho next word from. That is, there is (1) the position, (3) the action. New, it is attontion to this very simple process that secnres complete articulation; but, as I stated, the neglect is nivarsal, and incoherent speech and reading are the rale.
I have thus very briefly sketched the first condition of clear speech and good reading -a good voice and a distinct ntterance. It is impossible to read aloud with pleasure to our hearers, or to speak with all the music and distinctness which should mark the speech of a rational being, without the fulfilment of these conditions. It must be admitted that important as it is, as a part of public education it has been so completely neglected, that it is like tho introduction of a ners art into the curriculam of school edacation; but I have no hesitation in caying that every taacher who possesses an ear and a voice will overcome all the difficulties of this new art; and that when once it has been mastered its exercises will be the most popalar in the school-room, and equal to the most elevated and delightfal in their application.

In another paper I shall endeavour to explain the intellectual principles and application of these vocal exercises by suggestions on "Horv to study a passage for reading."
-A schoolmaster who had an inveterate habit of talking to himself was asked what motive hocould have in doing so. He roplied that he had two good and substantial reasons: in tho first place, he liked to talk to a sensible man; in the next place, he liked to hear a sensible man tall.
-In the suggestive address of Presideat Newrell at Louisville, occurs the sentiment that "The true theory of a common sohool programme is that evory step shall be the best possiblo preparation for stopping out rather than for stepping up."

## Examination (Mucstions.

Undor this head will bo publishod from month to month tho pajors sot at tho oxamination for ontrance finto tho High Schools of Ontario, the Intormodiato High 8ohool Eyumanation, tho oxammation of candidates for Iublic School toachors' certifcutes, and tho Junior and Senior Matriculation oxaminations of tho University of Toronto Tho Mathomutical jajers will in ati cases bo accompanted by analyticul solutious of the moro difleult problems und hints on the west metrorile of solving the others.

## PAPEIS FOR JULY, 1877.

## HIS'IORY.

## I.

ADMISSION TO HIGE SCHOOLS.
Values.
Examiner: J. M. Buchas, M.A.

1. What races effected sottlements in England before the joar 1200?
2. Tell what you know about the Norman Conquest.
3. "Edward the third, my lords, had seven sons, The first, Edward the Black Prince, prince of Wales; The second, William of Hatfield; and the third, Lionel, Duke of Clarence; nest to whom
Was John of Gaunt, tho duke of Lancaster;
The fifth was Edmond Langles, duke of York;
The sixth ras Thomas of Woodstock, duke of Gloster;
William of Windsor was the seventh, and last."
Name in order the kings that reigued in England between Edward III. and Henry VIII., and state from which of these sons each was descended.
4. Give a short account of the reign of Charles I.
5. What different author:ti-s must, according to the English constitution, cousent tu a bill before it becomes law? Which of these has at present the greatest power? Mention a time at which one of the uthers took the lead.

## II.

third class teachers.
Values. Examiner: J. M. Buchan, M.A.
7. Tell what you know about Earl Godwin, Thomas-dBecket, Earl Warwick the King-Maker, Cardinal Wolser, Sir Robert Walpole, William Shakespeare, and Jacques Cartier.
8
8. What was the extent of the Roman Empire when Eugland was a part of it ?

## III.

second class teachers and interasediate.
Examiner: S. Antiuer Mablisig, Mr.A.
N. B.-Marks rill be deducied for bad spelling, and added for excellence in style.

1. From what existing circumstances would you infer the several invasions of Britain?
2. Narrate in a conciso form the events which lod to the Revolation of 1688.
3. Write short oxplanatory notes on Magna Charta, the East India Company, the Petition of Right, the Treaty of Limerick.
4. Name the great writers who adorned the reign of Elizabeth, and give a list of the works of any two of them oscept Shakespeare.
5. Enumerate the principal inventions and discoveries which have contributed to develop tho commercial and industrial progress of Great Britain in modern times. Give the dates of these, and tho names of the chiof persons connected with them.

- 6. Define the position of the following places, and connect them with important ovents and dates in English History :-Agincourt. Naseby, Utrecht, Plassoy, Saratoga, Trafalgar, Fontaineblean.

7. When did these porsons live, and for what are they noted in history: Thomas-d- Jlecket, the Black Prince, Chiof Justice Gascoigno, Judge Jeffries, Admiral Robert Blake?
8. Name the principal events of the history of Canada in the period 1700-1750.
9. Give some account of Porsena and Coriolanus.
10. Sketch briefly the course of the first Punic war.
IV.
first class teachbrs.
I:c.nimet: S. Anthur Marlino, M.A.
Note.-In valuing the answers to this paper, marks will be given or de. ducted for style.
11. Show by examples the inflaence of the geography of Greece upon its political and social development.
12. Enumerate the causes which produced the Peloponnesian war, and sketch the course of that war subsequent to the Syracusan expedition. Be concise.
13. "The Semitic races could no longer dispute the dominion of the Mediterranean lands with the Aryans." (Freeman.)
(a) Compare the races here mentioned.
(b) What events justify the statement?
14. Describe briefly the Roman Empire under Angustus, in reference to (a) its geographical extent, $(b)$ its political features, ( $c$ ) the hiterary character of the reign.
15. What is meant by the Royal Prerogative? How was it employed by Henry VIII. and Elizabeth respectively? Give examples.
16. What was the domestic policy of Thomas Cromwell? With

What French statesman is he compared, and on what grounds?
7. Give a view of the writings of Sir Thomas More, and justify
this remark by Mr. Groen : "The most important social and political discoveries of modern times bare been anticipated by the
genius of Thomas More."
8. Describe the foreign policy of Queen Elizabeth.
9. Whast causes retarded the prosperity of Ireland under the Plantagenets?
10. Compare the Constitutiou of Canada with that of the United States.
11. Short notices of Champlain and de Frontenac.

## GEOGRAPHY.

## I.

ADBISSION TO HigH Schools.
Examiner: S. A. Marling, M.A.

1. What is the meaning of 'Meridian,' ' Planet,' 'Longitude,' 'Republic,' 'River-basin,' 'Degree,' 'Cardinal Points?'
2. Name the principal rivers of N. America that flow into the Atlantic Ocean; say what states or districts are drained by them, and by what bays, \&c. (if any), they discharge themselves; and mention the moat important cities on their banks.
3. What aro the chief mountain-chains of Asia, nnd how situated? Write also the names of the principal Asiatic islands, and of the country (of the mainland) nearest to each.
4. Give the position, as accurately as you can, of James' Bay, the Gulf of Campeachy, the Bosphoras, G . Hatteras, the Str. of Messina, the Gulf of Aden, St. George's Channel, tho Gulf of Tartary, Table Bay, Rainy Lake, L. Baikal, the Guif of Georgia, the Lerant.
5. What and whero are Malta, Burmal, Manitoba, Crote, Bolkhara, Elba, Roumania, Corfa, the Balkans, Palestine, the Golden Horn, Lombardy, Greenlard?
6. Sketch a map of the Mediterranean Ses, showing the position of the most important coast-towns.

## II.

third class teachers.
Examiner: J. J. Tilley.
Values.

1. Define mathematical geography, planet, longitude, ecliptic, glacior, platoau, bayou, haven, lough, canal.
2. Give in degrees the width of the different zones, and account for the width of the torrid zone.
3. Compare the longitude of two places, $A$ and $B$, the time in the former being one hour and forty minutes behind that in the latter.
4. Describe the physical geography of Europe, and note the most prominent features of uniformity.
5. Describe the priacipal river-slopes of tho United States.
6. Give the physical features of Now Brunswick, British Columbia, nnd Manitoba.
7. Locate and give the political relation of the following islands: Miquelon, Azores, St. Joseph, Hayti, Bermudas, Ascension, Heligoland, Cumino, Mauritius, Oland, Lapland, Labuan.
8. Name tho British possessions in the Eastern hemisphere.
9. Name the cities on the following rivers:-St. Law- rence, Potomac, James, Rhone, Serern, Clyde, Suir, Rhing, Maritza, Ganges.

## III.

3ECOND Class teachers and intermediate.

## Examiner: James Hugers.

1. Describe the river systems of South America.
2. Draw an oatline map of the chain of lakes between Canada and the Unitod States, naming their connections; and locate accurately the following places: Sarnia, Milwankee, Oswego, Collingwood, Chicago, Kincardine, Cloveland, Detroit, Goderich, Thunder Bay, Windsor, Toledo, Dulath, Owen Sound, Silver Islet and Prrt Colborne.
3. Where and what are Bataria, Maggiore, Aden, Otranto, Tananarivo, Bulgaria, Natal, Negropont, Malaga, Gothland, Sydney, Fanen, Pisa, Father Point, Cagliari, Yenilale, Aspinwall, Melbourne, Etna and Fontenoy.
4. Give the form of government, religion, and chief exports of the following countries: Switzerland, Hindostan, Portugal, Buenos Ayres, Turkey, Persia, China, Brazil, Nubia and Japan.
5. Describe land and sea breezes, and explain their causes.
6. If the earth's axis were parallel with the plane of its orbit(a.) What changes wonld be made in climate? (b.) Where would the Tropics be sitnated?
7. (a.) Why do wo have high tides on opposite sides of the earth at the same time? (b.) Why do we not have two tides in 24 hours?

## IV.

FIRST CLASS TEACEERS.

## Examiner: J. J. Tinley.

1. Classify stratifed rocks into periods and systems.
(a) In which eystems is coal found?
(b) Name the lowest system in which fossil remains of birds are found ?
(c) If Trilobites aro found, should coal bo expected below? Give reasons for your answar.
2. Explain how the sarplas snow abovo the snow-line is carried off.
3. Explain (1) Why the snow-line is lower in the southern hemisptere than it is in the northern in equal latitudes; and (2) why it is higher at $20^{\circ}$ from the equator than it is at tho equator.
4. Compare tio main eres of land elevation in the Old World with those ia the New.
5. Descrijo the Great Northern Plain of the Old World.
6. Describo the principal consiant and periodical winds.
7. Account for the large vegetable growth fonnd near the west coast of Norway and North America.
8. For what are the following places chiofly noted: Hull, Southampton, Belfast, Cork, Dundee, Stirling, Toulon, Nantes, Elsinore, Ghent, Aackland, Funchal?
9. Write brief notes on the ptincipal commercial and manufactring centres of Canada.

## ghotes and gldus.

ontario.
In another part of the Journar. will bo found some account of the chargas made in various quarters against the metabers of tho Central Committee. Since the article in question was put in type the Commissioner appointed to investigate the charges has commenced proceedings, and the Cummission itself has boen published. The charges to be investigated are thus formulated by the Minister of Education in nis report tos the Lieutenant-Governor in Council : (1) That there is within the Central Conmitioe a "ring," the members of which have dishonorable relations with the publishing house of Adam Miller \& Co., of Toronto, and (2) that in the proparation of examination papers in connection with tho Public and High Schools there has been collusion betweon members of the Central Committee and other parties interested in the work or results cf the examinations. The Commission is issued under the authority of a Provincial Statute, which enacts that whenever the Lieutenant-Governor in Council deems it expedient to cause enquiry to be made iuto and concerning any matter connected with the good government of this Province, or the conduct of any part of the public business thereof, or the administration of justice therein, and such enquiry is not regulated by any special law, the Lieutenant-Governor may, by the Commission in the case, confer upon the Commissioners or persons by whom such enquiry is to be conducted, the power of summoning before them any party or witnesses, and of requiring them to give evidence on oath, orally or in writing, or on solemn affirmation, if they be parties entitled to affirm in civil matters, and to produce such documents and things as such Commissioners deem requisite to the full investigation of the matters into which they are appointed to examino; and that the Commission or Commissioners shall then have the same power to enforce the attendance of such witnesses and to compel them to give evidence as is vested in any court of law in civil cases. Mr. Edgar, who appeared on behalf of the Minister of Education, stated that it was the desire of the latter to have the investigation made as thorough as possible, a desire which wes re-echoed by Mr. Davin, who appeared ou bohalf of the Mail, in which journal most, if not all, of the charges have been pronulgated. It should be added that although only two have been subuitted to the Commirsicner, they were so worded as in reality to cover every accusation of any importance that has been made. It is also stated in the Commission that the members of the Central Committee, through their chairman, urgently requested that an enquiry should be held into the charges brought against them, and that the fullest opportunity will be afforded to all concerned to establieh their truth. Mr. Davin informed the Commissioner at the first meeting that he had no list of witnesses to put in; Mrr. Edgar handed in his as follows :-Hon. Adam Crooks, Minister of Education; Professor George Paxton Young, Chairman Central Committeo; Dr.J. A. McLellan, Member of Central Committee, Yorkville; J. M. Buchan, Member of Central Committee, Hamilton; S. A. Marling, Member of Central Committse, Yorkville; John J. Tilley, Member of Central Committee, Bowmanville ; John C. Glashan, Member of Central Committee, Ottawa; G. W. Ross, M.P., Member of Central Committee, Strathroy; James Hughes, Member of Central Committee, Toronto; W. J. Gage, S. G. Beatty, constituting the firm of Adarn Miller \& Co., Toronto ; Thomas Kirkland, Normal School Master, Toronto; T. C. Patteson, proprietor of the Mail newspaper, Toronto ; Chas. Belford, Editor of the Mail, Toronto ; Wm. Houston, Assistant Editor of the Globe, Toronto; J. R. Tcefy, Assomption College, Sandwich; C. J. McGregor, Stratford; Alex. Murray, Galt ; Alfred Baker, J. G. Birchard, G. K. Powell, J. S. Carson, Turonto. All matters of policy will be bept apart from the charges of corruption which form the subject of enquiry, the Minister of Education having signified his intention of assumiug full responsibility therefor, and of-replying to his critics in the proper place and at the proper time. The enquiry has been adjourned, on account of prior engagements of Mrr. Justice Patierzon, the Commissioner, to the twelfth day of November. The sessions will be held in the Librasy cf the Education Depariment.
Dr. Snodgrass, who has for many years filled in a highly efficient manner the post of Principal of Queen's Collego, Kingston, has zccepted a call to the parish church of Canobie, Dumiriesshire, Scotland. He laares for his new chargo early in October, and the Trusters of Queen's are about making rarrangements to sapply hia place. The name of tho Rev. G. M. Grant, of Halifax, a wellknown litterateur, has beon mentioned as his probable successor.

The folluwing resolution has been sent to us for publication :"Whereas considerable pressure has been oxerted to close the Bouk Dopository, Toronto, which, though selling cheaper than other places, yet exhibits a satisfactory balance; thereioro, resulved, that in the opinion of the South Grey 'Cuachors' Association tho interests of tho profession and the peoplo of the Province will bo best secured by the Book Depository heing continued as heretofore."
Mr. Little brings back a favorable roport of educational mattors from Algoma, and Mr. Miller a similar one frum Parry Sound. The amount of inspectoral work in these districts is now so great that in all probability there will soun be new arrangoments mado for overtaking it. Mr. Little was prostrated for a time under a severe illness brought on by exposure and overwork.

As the season is approaching for the making or renewal of engagements between teachers and trustees, it is to be hoped that as many of them as possible will be made on the basis of quarterly or monthly payment of salaries. The Act of 1877 contains a pro vision which enables trustees to borro: money for the purpose, and if teachers will only press the point they will in very many cases succeed in securing a decided boon at a trifling expense to their employers. We have a firm conviction that in the great majority of cases trustees can be thoroughly convinced of the reasonableness of quarterly if not of monthly payments. Lest any should still be under misapprehension on the point we may repeat that trustees are not compelled to make the requisite provision, and that if it is made at all it must be the result of a voluntary movement on their part, or of a bargain made at the instance of the teacher.

QUEBEC.
The opening of the Roman Catholic schools of Quebec city has been deferred on account of the typhoid fever.
The Mer. Philip Read, M. A., Ox., late Assistant Master of Marlburough College, has been arpuisted Rector of Bishop's Cullege School, Lennuxville, vacant by the retirement of Rev. C. Badgeley, M.A.
The Book Depository Question has arisen in Quebec. The School Act of the last Session of tho Provincial Legiblature authorised the Superintendent to establish under certain conditions a Depository of Books, dc. (Un Magazin Scolaire). An attempt has been made to carry out the provisions of the Act. The booksellers have taken alarm at the Guvernment munopuly. The objections tu the Depositury are cleverly put in a Fruch pamphlet, which has beun attributed to the pen of M. labbe Chandunnet. (1) It is an unheard of iceasure. (2) It places in the hands of the Superintende... of Public Instruction an immense and ruinous monopoly, which is unjustifiable, and consequently impolitic and immoral. (3) It attacks the free action of the Council of Public Instruction, as well as the independence of school commissioners (i.c., trustees) and parents. (4) It creates a corrupting patrnage for the superintendent, the pulblishers, the booksellers and the authors: a patronaye which is favorable to one, fatal to the others; which destroys competition, disconrages talent, aud sanctions forever the triumph of shameless medivcrity. (5) It is a measure which will have the most dreadful consequences for public instruction itself. (6) Finally, it is unjust, ant1-economic, impracticable, branded with the stigina of private interest and speculation.
The late Rev. J. H. Nicolls, D.D., who died on the 8th ult., was Principal of Bishop's College, Lennoxville, 32 years.

## NEW BRUNSWICK.

A recent despatch frum Juundon to Leutenant-Giovernor Tilley announces that William L. Goodrin, of Baie Verte, is the winner of the Gilehrist Scholarship for 1877. Gnodwin was a member of the freshman class of Miount Allison Cullege, Sackville, during the past collegiate year, and received his preparatory training entirely in tre Mount Allison Academy. Ho is twenty ono years of age, and a son of E. C. Goodrin, of Baie Verte, and the first New Brunswicker who has won the Gilchrist.

## NOVA SCOTIA.

A Halifar exchange of a recent date has the fullowing. - Among the arrivals by the Nova Scotian this morning was Dr. Herbert A. Bajne, who has been appointed teacher of MLotwonatics and Physical Science in the High School about to be opened in this city. He is a son of the late Rov. Dr. Bayne, of Picton; was a distinguished stndent of Dalhoasie College; he took his degree of M.A. there, and then prnceeded to Europe, to continue his studies in the University of Heidelberg, Germany, where he wors the de-
gree of Ph. D. Young Dr. Bayne will bo cordially welcomed back to his native land. The fact that in his absence and without his knowledge ho was a successful candidate for a high educational position in the capital of his native Province, is an evidonce that a prophet is not always without honor in his own country.
Over a year ago the sectarian troubles which disturbod the working of the school system in Halifax wore allayed by the passage of a series of resolutions to the effect that (1) nono but Roman Catholic teachers should be appointed to or employed in the schouls where the teachers were then exclusivoly Catholic; (2) no Roman Cathohc teacher should be appointed to or employed in any otner of the existing public schools than those referrod to in the first stipulation; (3) the Roman Catholic teachers should bo appointed on the recommendation of the Roman Catholic members of the Board, and all other teachers on the recommendation of the members not belonging to that denomination; (4) all teachers after their appointment should, subject to the foregoing provisions, be under the control and management of the Board. With the exception that it makes no provision for the case of new schools, this scheme seems to be well adapted for overcoming the difficulty it was designed to obviate, and for a long timo it worked admirably in practice. A passing breeze has, however, been recently created by th. Cuilholic members of the Board voting on the appointment of a Protestant teacher to one of the Protestant schonls, not with any intention apparently of breaking the above compact, but because they thought it did not apply to the case before them, which wes that of a division amongst the Protestant members on tho respective mericis of two Protestant candidates. It is to be hoped that the matter will be amicably settled, and that the arrangement will continue to work as satisfactorily as it has done.

## MANITOBA.

Of twenty tenchers who applied for certificates at the recent Provincial Examinations, fourteen obtained third class certificates (grade B), one a third class (grade A), while none were awarded second class of any grade, and but one, Mr. G. B. Munroe, a first class (grade B). Several of the candidates were old teachers from Ontario who had failed to come up to present requirements there, and in consequence sought the Prairio Province under the impression that thero would be but little difficulty in obtaining certificates of a high grade:- The examination just held shewed this to be a delusion. The Protestant section of the Board has of late been the reverse of lax in granting licenses to toachers. They evel refused to admit without the usual examination a first class honor graduate of Toronto Eniversity, who held at the same time a firstclass grade A Provincial certificate from Ontario. And yet educationalists and others here are continually getting letters from second and third class teachers in the older Provinces enquiring whether such will be recognised here, and licenses given rithout further examination. The standard in Manitoba is little, if any, lower than in Ontario, as those interested may see by examining the programme, wrich will be furnished on application by the Provincial Superintendent, Rev. W. C. Pinkham. The exnminers include many of the leading educationists of the Province. and candidates with loose knowledge of their subjects find but little favor at their hands.

The Isbister Prizes ( $£ 5,54$ and $£ 3$ ), open to all the public schools of tho Province, and the gift of a Mr. Isbister, nuw of London, England, and formerly of Sit. John's College, Manitoba, have been awarded; a pupil of the Winnipeg Central.School carrying off the highest prize, one from Central St. Andrews the second, and one from East Kildcnan the third. There were in all trentyfour candidates, of whom thirteen ranked in first class, requiring one half the total marks; seven in zecond class (one-third total), and two in third class (one-sixth total).

The first meeting of the Council of the Cniversity of Manitoba was held in the Court House, Winnipeg, on the 20th ult.
The magnificent central school buildings in Winnipeg were to be opened about the first of October by Lord Dufferin. A momorial stone with appropriate inscription commemorative of the event is to be placed over the main entrance.

The Protestant section of the Board of Education are considering the propriety of having hut one examination for teachers' certificates, as heretofore. Should there be but one it will lively be in July. At present they begin the second Tuesday in Jannary and July.

Compotent teachers are somewhat scarce in Manitoba just now, but it does not require many to supply the demand.

## REVIEWS.

Comstoch's Elocution and Model Speaker. Philadelphia: T. B. Poturson and Brothers, 806 Chestnut Street. This volume consists of the well-known work of Dr. Comstook, to which Professor Lawrence, of Philadelphia, has added a large and choice collection of the standard selections of the English language. Dr. Comstook's work is an invaluable treatise on the cultivation of the human voice, the development of chest power, the principles of correot and perfect articulation, the rules of correct reading and speaking, and appropriato gesture. On the last point it is especially clear and full in its explanations and illustrations. There are nearly two hundred cuts illustrating this portion of the book. It will be found of much service to all who wish to perfoct themselves in the principles of Elocution.

Chambers' National Readers. This is one of the several series of readers anthorized for use in Great Britain. The first five volumes are composed of miscellaneous selections chiefly taken from works of modern authors. The sixth and last, in the words of its preface, aims at exhibiting, in chronological order, representatice specimens of representative anthors throaghout the whole course of English Literature, from Beowulf down to the present day. Ertensive notes explaining the language and references in the selections are placed at the end of each lesson. Exercises in Composition and Rhetoric are suggested at the close of the notes to many of the lessons. Number Six is calculated to give pupils a good ider of the varions steps in the developmont of our langarge and its literature.

Good Times, Vol. I., No. 1. Published by T. W. Bicknell, 16 Hawley Street, Boston. This is a new monthly magazine of an original oharacter, designed to supply material for pablic concerts and exhibitions in connection with Public Schools, Sunday-schools, missionary gatherings, and temperance organizations. It coutains new readings, recitations, dislogues, masic, motion and marching songs, etc. The first number gives promise of a monthly store of good thinge.

The New Education. This is a littlo monthly issued by W. N. Hailman, Esq., Superintendent of Schools in Milwaukeo, and devoted to the interests of Kinder Garten education and home culture. Mr. Hailman is so well known as an educator and author thet it is almost superfluous to say that "The New Education" is filled with most valuable thoughts. It should be read by every teacher who wishes to teach rationally, and by every parent who dosires to train his children so as to develop their mental and moral natures to the fullest extent.

## 

## PUBLIC SCHOOL TEACHERS' EXAMINATION.

history and engligi hiteratobe for deceybee, 1877, and joly, 1878.

## I.-PIRST CLASS CEBTIFICLTEG.

Examination in History, July, 1878.
General History.-Freeman, chapters $1-5$ inclusiro.
Ancient History.- Special and more detailed stady of a particular period:-History of Rome from the end of the Sucond Panic War to the death of Augustus. (Schmitz's Ancient History, Book IW., or Liddell's History of Rome, may be consalted.)

Modern History. - Special and more detailed study of a particular Pariod; History of England; the 3tuart Period. (Grcen's Short History of the English People, Doaglos Eamilton's Constitational Eistory, and Macaulay's History, may be consalted.)
English Literature for the First Class Examinations, July, 1878.
Shakespeare.-Mracbeth.
Bacon-Ten Essays:-(ii.) of Death; (ii.) of Boldness; (xiv.) of Nobility; (xxi.) of Dolay; (zxvii.) of Friendship: (xxxi.) of Suspicion; (xxyiii.) of Nature in Mon; (ylii.) of Yoath and Ago ; (lii.) of Ceremonies and Respects ; (Iviii) of the Ticusitudes of Things.

Goldsmith-" The Traveller" and "The Deserted Yillage."
Macaulay.-The Essays on Boswell's Iife of Johnson, and on Moore'; Life of Lord Byron.

## II.-SE00ND CLASS CEETHFICATES.

The works presaribed for the oxamination in English Literature for Second Class Certificates in December, 1877, are:-Goldsmith's "Doserted Villago," and Sir Walter Scott's "Lady of the Lake." Candidrtes
will bo expocted to show that they havo road the wholo of the lattor
poom; but the questions set will bo based mainly on Cantos iii. and iv.
For tho July oxamination, 1878, Goldsmith's "Traveller" and "Deserted Village" havo been proscribed.
In Histors, the questions set for candidatos for Socond Class Cortificates will be confued to tho leading events of English and Canadian History, also of Roman History to the end of the second Punic War.
HII.-THIND CLASB oERTIFICATES.

The paper on English Literature to be set for candidates for Third Class Cortificates in 1878, will be based on one or more of the following lessons in tho Fifth Reader :

## Pago

123 Tho Cloud-Shelley.
140 Tho Origin of the English Nation-Macaulay.
192 Exocution of Mary Queen of Scots-Robertson.
108 Character of Elizaboth--Hunce.
207 The Battlo of Naseby-Thorne.
218 Cromwell's Expulsion of the Parliament-Lingard.
276 The Battlo of Waterloo-Byron.
278 Deuth of Georgo III.-Thackeray.
276 The Academs of Lagado-Swife.
411 History in Words-Trench.
417 Lettor to the Earl of Chesterfield-Johnson.
418 Lettor to the Dako of Bodford-Junius.
421 Chancer and Cowley-Dryden.
422 Dryden and Popo-Johnson.
460 Musio by Moonlight-Shakespeare.
476 From "Julius Cæsar."- Do.
480 Trial Scene from "The Merchant of Venice"--Shakespeare.
484 From "King Richard II."-Shakespearc.
485 From "King Riohard III."- Do.
487 From " King Honry VII."- Do.
488 Eamlet's Soliloquy on Death- Do.

## INTERIM REGULATIONS RESPECTING TEACHERS' EXANINATIOAS.

CIRCOLAB FROK THE MINIBTER OF EDUOATION TO POBLIC SCHOOL INEPEC. tors.

Ginflezaren,-Some misapprehension I find exists with respect to the Interim Regulations and Ezamination of Pablic School Teachers for the yoar 1877.
as to socond olass certificates, the interim regulations were expressly iramed so as not to prejudicially affect what would have been the status of candidates for second olass certificates at the July examination, if the interim regalations had not been passed. They, therefore, provide that a teacher holding a third class certificato who has successfally tanght in the schools three years should racsivo his full second class certifioate on passing the subjects for the non-professional examinatinn oniy.

The further concession is expressly made by regulation two, under title $X$, that this three years' period of teaching might be less on the spooial recommendation of the Connty Inspector.

It is therefore clear that in all cases where the holder of a third class cartificate has successfully passed the non-professional examination in July last, and hes obtained or can obtain the special recommendstion of the County Ingpeotor as to his efficiency as a Public School teacher, he is entitlod by right under the regulations to a full second class certificate. according to the grade in which he may have passed the non-professionsi eramination.
There is a farther provision in regulation six, under the same title $\mathbb{X}$, Which applies to a different class of candidates, namely, to those candidates who bave not or had not obtained the above-mantioned special recommendation of the County inspector. They can, under the regulations, only obtain a full second class certificste after attending one session at a Normal School.
These interim regulations were framed by me for the express object of giving to third class teachers of approved efficioncy the right to obtain a full second class certificate at the July examination without the necessity of having taught for the full period of three years, while the permanent regulations, which will be in force horeafter, require os a condition for second elass candidates that they shonld attend for ono session in a Provincial Normal. Sahool, and to hare tanght successfully for at least one year in a Eigh, Public, or Separate school.
In carrying out the ezpress object of the interim regulations the Coanty Inspectors will anderatand that this duty is to bo disohanged not capriciously, bat socording to the best exercise of s sound judgment in reference to the teaghing efficionoy of tho applicants for thair special recommondation.

The County Inspectors are required to discharge this daty only, the Dopartment boing alone responsible for the prorisions of tho intorim reguletions.

I hsue tho honour to be, Gentlomen,
Your obodiont Servant,
ADAN CROOESS,
Minister of Edacation.

A man never gets so much good out of a book as when he possesses it.-Sir Arthur Helps.

# A SELECT IIST OF Popular New Books, Published by BELFORD, BROTHERS, $\mathbf{6 0}$ york STREET, ToRoNTo. 

FOR SALE BY ALL BOOKSELLERS.
Any book in this list sent post paid on receipt of price.

## OCIOEHE, 1877.

Nicholas Minturn, a Stady in a Story. By J. G. Holland, author of "Arthur Bonnicastle," "Sorenoaks," etc. ' 1 rol. 8vo., with fall-page illustrations. Cloth, \$1.25; Paper, 75 cents.
Tho olucidation of tho pauper and tramp question Torma, in fact, a loading theme of tho book: for like Dr. Hollands othor stories, the is an ano rel rith a purpose.: A largo liart of tho $212 t 0 r o s t$ lios in the of a great city and lis extraordinary oxperiments in their reclamation.
But there aro one or two love sturies amvolved, and Dr. Holland has givon his roaders some characters ovidently stadied from life, and not from books, namely. Brr. Bonson, wio is tho tragic flguro on the sceno. ذís. Coates, nud Cayt. Hanlis, that harcForking and slow-saring man. ${ }^{\text {send }}$-Belfords.
"In short this is a book mhich will bo oqually melcome to the political oconomist rho cares nothing about storios, and tho hungrieat novel reader who cares nothing about political econonyy. We can give at no higher praiso."-The New Dominict.

## Rainsford's Sermons and Bible Read-

ings. Cloth, with fine Cabinet Photograph,
75 cents ; Paper Cover, 30 cents.
No modorn prewcher in Canada has captisatod tho affections and conquered the hearts of lis hearers 80 complotely as Alr. Ransford. Thousands daily istened to his fimple yot eloquent words in St Jaincs Cathodral, Coronto. Thes rill be pleased to bavo lis Sormons and biblo Ireadings in a complete form; while tho many thousands who only knotr him by ropatation, will bo dolightod to pernse
his discourses. The cabinot pliotograples aro tiono his discourses. The cabinot
worth the price of the book.
Benners Prophecies of Future Ups and Downs in Prices. What years to make money on pig-iron, hogs, corn, and provisions. By Samuel Bemuer, (an Ohio Farmer). Cloth, 75 cents; Paper Cover, 50 cents. Cecil Castlemaine's Gage. By Ouida. author of "Inder Two Flabs," "Ariadne," etc. Cloth, 61.00 ; Paper, 75 cents.
" Cecil Castiomaincos Gage" is unt one of foarteon short stones brought torothor in one rolume. Thos aro all as crisp is now-formed ico, and sparkling as champagne.

Perhaps of all the stories 'The Gozeral's Match-Making' is the best It is full of fun. atitrigue, blooded horsea, cuncting feones on the rond, nnd chriming bits of description"-The Toronto Mail.
In a Winter City. By Onida, author of "Arianne," "Strathmore," "Under Tro Flags," etc. Cloth, $\$ 1.00$; Paper, 75 cents.

- Econ pootic insight, an intenso lonc of naturo, a dconadmaration of the bcrutiful in form and color, are tho gifts of Ouida "-Morning rost.
Their Wedding Journey. By W. D. Lowells Cloth, 75 cents; Bocrds, 50 cents. In 'Therr Wedding Journoy' ho disphas genius of a high ordor. The siory is wail tolld.
 8koclled, nnd the plan of the story is cilerer and
pinant. Tho sceno is mainls lad in our own

Dominion, and Moptroal and Queboc are the con. tros of intorost. Evory ono will liko to road. Their nn attractive Blape."-St. John's Watchman.
One Summer. By Blancho Willis Howard. 16 mo ., Cloth, red edges, 50 cents; Buards, 30 cents.
"A charningly amusing, interesting and oxciting romance."-Darrio Adtance.
A Chance Acquaintance. By W. D.
Howells. Cloth, 75 cents, Boards, 50 ceats.
"The doscriptions of scenery are all fresh and artistic, and the observations of mannors and people aro curious and valuable."-Gollerich Star.
My Little Love. By Marion Harland, author of "Alone," "Nemesis," etc. Cloth, 81.00 ; Paper Corer, 75 cents.
"The authoress of this ploasing novel is 80 woll knomm, that anything from bor ison will bo rond with nvidity. Eor now story is woll writton, the flot is simple, yet perfect, and the manner in which equal to tho high roputation of the flrm."-Otiawa citizen.

## Dyspepsia and its Kindred Diseases

 By W. W. Hall, M.D., author of "Health by Good Living," "How to Livo Long," "Health at Home," etc. Crown 8vo. Cloth, \$1.00.This is the last work of the late Dr. Hall, and it is adnutted, by profossional judges, to bo $n$ very valuahle bouk. It givor, in conciso form, an account oi how to cure, provant and treat oneself, not alono for dy spepsia, wut a great mang othor disonses, which tho Doctor clams arises frnm tho same causo as this disousc. Thas mork should bo in orory houso in tho country.
Ocean to Ocean. By Hev. George MGrant. New and rerised edition, with map and numerous illustrations. (rown 8 vo ., Cloth, 81.50 .
"This sis, by the uaiversal acknomlodgemont of prese nad public, the most completo work on tho Grent Lone Land or British North America, whicil has aver been publishod. Tho present edition has been thoroughly rovisod nnd cerroctod by tho author. and a now chaptor has beon sdded, whinch brings down to tho latest moment the oflicial and othor infonnation boaring upon the vast termitory so
crannically and fully trontod of. The n'ustrations Fraphicnlly and fully trontod of. The a'ustrations liarc all beon nowly oxecuted. It is a book of raro
value." value."
The Bastonnais: A Tale of the American Invasion of Canada in 1775-76. By Jolan Lesperance. Crown 8ro. Cloth 81.00 ; Paper Corers, 75 cents.
This is a story whoss main ocents centro around one of tho nost thriming and interesting poriods of Camadian history it is written by tho cditor of tho the pages of that journal from wese to weok, ateracted a great deal of jntorest. It is na admirablo contribution to one yet nascent Canadian litoraturo.

The Prince of Wa!es in India. By F Drew Gay. Profusely illustrated. Crown 8vo. Cloth, gold and black, 81.50 ; Paper, 75 conts.
"A lasting momacrial of an intorosting journoy."Daily Telcgraph.
"Whl no doubt find an extonsive public. and bo road by then with interost."- Nonconformist.
Home Cook Book. By the Ladies of Toronto. Cr. 8 vo. Cloth, 1.50; Board Covors, 81. Tho recoipts contasined in this book aro supphiod by the ladios, and none havo been given by thom except such as have stood tho tost of oxperionce in thoir own households. Unquestionably it is ono of $t^{\text {the }}$ most valuablo Cook Books orer published.
Getting on in the Worid. By Prof. William Mathews, LLL.D. Crown 8vo. Cloth, 81.00; Paper, 75 cents; Half Calf, 82.00 .
. Worth any day ton timos its cost for the tonth grt it contsink. A honk full of sonsible senso and soundor soundnoss we haro not soen for a long day. -S S.Times, Philadelphia.
"A book in Fhich thoro is abuadant mattor of great intorest."-From Irev. Noah Porter, D.D. Great intorest. - From Rev. N.
"It vill givo hoart and hope to many a struggling young man."-Rcv. M. B. Anderson, D.D., LL.D. President of nochester Onivcrsity, N.Y.

What wealth of illustration he brings in from English poots, dramatists, divines, lawyers, and jurists l"-Eduin $P$. Whipple, the distinguished critic.
Hours with Men and Books. By Prof. William Mathers, LL D., anther of "Getting on in the World." One handsome volume, Cloth, $\$ 1.00$, Paper Covers, 75 cents; Half Calf, 82.00 .
" Prefessor Mathoris has achioved remarkable succoss as nn author."- Boston Transcript.
"His etylo is brulinnt and captivatíng, and his myrinds of illustrative anccdotes are Invariably happily cuoson and judiciously used."-Liverpool Allion, Engina.
How to Study. By the Rov. John Schalte, D.D., Ph.D., suthor of " Roman Catholicism." Cloth, 50 sents.
"Is a practical trostiso for atudonts, I know of none, of tie same compabs, moro valuable than this. I ha ro carofally read it over, and would cordially rocommend it to all students-boginnors in our High Schools and Colleges. Thore lis no subject, in regard to which stadents aro so ontirc ly ignorant and often misuiformed as that of how best to master particalar branches of learning. They havo no correct idoa of bovi to stady; and benco procious thmo io wastod and dosultort habits ario formed which are nover got rid of. As tho rosult, inaccuracy, uncertainty and ropotition aro characteristio of tho studant's porformanco; and trally the 'much' useless 'study
 the Hosh. Dr. Schalto's treatise is roll adaptod to corroct those bad habits, or to provent their formation rbore the studont is a beginnor. The ontiro wnik is omidently practical, but osi ocially chaptors Fii-ix, and to thom I Fould particularly direct the Deputy Nsinister of Editcation.

# STHPHENS' WRITING FLUIDS \& COPYING INKS 

Havo rocoivod the highest awaris ovory time they havo been oxhbited. 1PARIS, 1807; IIAVHE, 1868; AMSTERDAM, 18C9; LYONE, 1872; VIENNA, 18i3; PEILADELPHLA, 187B. Thoy ombraco the highor qualitios of Writing and Copying Inke, and each yoseesses some mpecial churacter ndaptod to tho many diforont roquiroments of Correspondopco and Counting llouso. Thoso distinctive foatures, and thofr general oxcellonco, mate thom preferablo to, and moro widely unoful than, the ordinary class of menufactures.

## STEPEENS' BLUE BLACK WRITING FLUID. STEPHENS' BLUE BLACK COPYING INK. STEPEENS' SCARLET INK FOR STEEL PENS.

Tho abovo with overy description of WRITING nad COP'ING INE, GUM MUCCLAGE, to resist Formontation in hot olimates; QUILLS and SEALING WAX, are manutactured by

## H. C. STEPHENS, CHEMIST,

Propriotor of Stophens' and op F. C. Stophens' Labeis and Trade Markw, 1 'II Alderagato Stroot, LONDON, E.C. $630^{8}$ sold by all Booksellers and Stationers throughout the World.

## NEW

## GEAMIMAR.

BY DR. COLLIER.

Just published, pp. 180, cloth, 18.,
The Nero Practical English Grammar.
By william francis Collier, ll.d.

## Dibtinctive features.

1. It is a Practical work based npon tho Author's own experience as a Teachor of tho subject.
2. It avoids Terms neediessly dimpult, and adopts a clear and simple mode of Exprcssion.
3. It aims at tho atrictest aecuracy of Definition.
4. It presonts the Essentials of English Grammar, prominently and fully, in larger type.
5. It intersperses numorous useful Notes in smallor type on oach page.
c. It gives a completo Order of rarsing, on a fred plau, and nresents tho Rulos of Construction gimply and lozically.
6. It hus a complete courso or Fixercises connectod with the Text by marginal number.
7. It dovolops, throughout, the Growth of our En ush Grammar Iro:- the ourlior forme of Anglo-Saxonand Norman-Fronch.
From the Principal of the Culham Training Col lege, Oxom - "The rork whll be of groat service, as it is cloarly and intolligibly writtan."
From the Principal of tho People's College, Notting-ham.-"Characterised by some spocialtios of rare excollonce. It will become a goneral favourite.'
Collier's (Dr.) First Lessons in Grammar 6d. Collier's (Dr.) Eigltsh Grammar with Eistory.1s. Gd. Laurie's Easy English Grammar $2 d$. Wilson's F'irst Step to Grammar \&d. Witson's Grammatical Primer .1s. Od. Wilson's Completo Englesh Grammar .ss.od. noss's Grammatical Analysis cd.

## THOMAS LAURIE, EDINBURGH.

## NOTRE DAME DU SACRE CCEUR.

Young Ladies' Literary Institute, Ottawa.
This Educstional Establishment, situated in one of tho Enest localities of the capital, was founded in the year 1847. Its buildings aro spacious, woll vontilated and heatod. Excoptionally favorable opportunities aro afforded to all young ladies, without distinction of Recision or Nationality, to acquire a thoroush oducation. The ontiro course is taught both in Fronch and in Englieh. Tho remarkablo prodeloncy hitherto obtained by tho Pupils places the Young Ladies Litorary lustitnto among the Arat educasional Institetions of the Dominion. Unprocedontod adrautages are oajoyod for tho thorough andorstanding and practico of Misic.
Tho Binolastic rear is divided into two sessions of ave months oach, boginaing rospectively with Sppiember nad Fobrusars.

TEERTE PER SESSION ( 5 months) BOARD, TUITION, BED, AND WASEING . 803.00 Afuric, Draving and Painting form extra charges. For full particulars apply to
THE LADY'DIRECTRESS, YOUNG 'LAuiÉS' LITERARY INSTITUTE,

## TEACHERS: <br> teAchers:

Examination Papers in Arithmetic. By McLollan \& hirkland
Hints and Answers to ditto
Mason's English Grammar, authorized ......... 75 Kirkland's Elomentary Statics, ""

100
25 Swinton's Language Lessons,
iso, any of tho recently authorized Toxt-Books supplied by mo, and at tho most liberal discount. sond in your orders.
E. H. EDWARDS,

Barrio, Aug.. 1571.
"The Bookstore."

## SCHOOL FURNITURE

 of ill kinds and overy desirable quality manufacR. HAY \& Co., TORONTO, ONT. OFFICE AND BALEEROOMCS: Nos. 19 and 21 King Street West. Factory-Cor. Front and Bay Sts.$E$ Trusteos about to furnish Public, or County arodol Schools will find it to thoir advantage to writo for our illustrated descriptive cataloguo, giving cuts and full information respecting the iftest and most approved styles of school deske.


# Perry \& Co's Illustrated List STATIONERS <br>  <br> <br> SUNDRIES. 

 <br> <br> SUNDRIES.}


## ORTHODACTYLIC-PENHOLDER

The object of this Penholder is to make Children hold the Pen correctly; i. c., * seep thoir fingers in a correct position, so as to prevent them from forming a babit of holding the Pen in an improper manner, and consequently spoiling thoir hand for lifo. Its name is derived from Greek Terms, indicating the holding of the jingers (dactyli) in a correct (orthos) position.

## ALUMINUM GOLD PENCILS.




5024 Pen and Pencil, Engine-tarned. . . . . . . . . . . . . . . . . . . . . . . . . $\$ 1200$ 5025 Cross Patteru, ditto .................................. 1200 Also Spiral Motion with Ring, Pen ard Pencil, Telescopic, Toothpick, Eugive-turned do., Gold Pick, Pen, Pencil and Knife, Secret Motion, \&c., \&c.

ELASTIC WEBBING BANDS.


No.
Per Gross.


## PERRY \& CO'S SUPERIOR PENS.

## Extra Hard for the Connting Horse.

No. 305 Tringgular Slit, Med. or Fine . . . . . . . . . . . . . . . . Per Gross, 45c
" 306 Oval Slit, Ditto, ....................... " 307 Circalar Slit, Ditto, ........................ " 45c


No. 21 Goneral Parpose, B.M, F., E.F. ..................... Per Gross, 30c " 22 Ditto, E.F........................................... 4 30



". 27 Elastic, B., M, F., E.F .................................... " 30c

## -

No. 31 Mercantilo, M., F........................................ Per Gross, 45c
" 33 Ditto, B.M., F., E.F ................................ " 45c
" 34 Ditto, M.F ..................................... 4 45c
" 36 Classical, B., M., F., E.F ............................ " 4б。
" 138 Spear-Pointed, Balance Spring, ix., F., E.F ..... ". 45 c
" 330 Commercial, Super Eitra Fine.................. 4 45c
" 420 Broad, Medium, Fine, or Extra Fine
" 871 The Boz Pen, B., M., F., E.F ....
450
............ " 450
CHEAP SFRIES OF PENS.
No. $\&$ Bright 3 Hole, Fine, or E. Fine ................Per Gross, 20c
5 Henry, Medıam, Fine, or E. Fine............... ". " 20c
6 Emanuel ditto,.......... ". 200
7 Bronze 3 Hole, ditto, $\quad$................ 15 c
8 Shoulder, Medium, Fine, or E. Fine ........ " 4 . 20 c
9 Broad Spear ditto, " 18c
181 Shell Fish Pon, M., F., E.F .......................................... 20c
1001 Shoulder Pen, B.M., F., E.F................... ". 100
IMPROVED REGISTERED PAPER BINDERS.


The head or top of these Binders being arched, they are much stronger than, and superior to, any others.

In Gross or Half Gioss Bores, at Lowest Rates.

LONDON.
91 and 20 Holborn Viaduct, and 3 Cheapside, E.C.

NEW YORK. William Street.

BRUSBELS. liue Da Museo.

FRANKEORD, O./M.
Crosse Sandcosse.

AMBTERDM.
Kalverstraat. A

## Miller \& Co's Educational Series.

## NFEW INTIERODUCTDOEY GEAMMAR

For use of Junior Classes in Pubhic Schools.

SWINTON'S LANGUAGE LESSONS. Adapted to Canadian Schools. By J. Macmillan, B. A., Ottak Collegiate Institute. Price, 25c.
${ }^{\bullet}$ R. DAWSON, B.h., 'I.C.D., Head Master High School, Belleville.
I have been very much pleased by the introduction of "Swintun's Language Lessuus," intu the list of Canadian Schoul Books. It is simple, comprehensive, and relialis, and showe very cleasly huw casily the sturly of grammar may be made to go hand in tand with the practice of Composition, the great ond for which grammar ought to be taught. We have at last an elementary text book which may be entrusted into the hands of the most inexperienced teacher without any fear of its being abused.

JOHN JOHNSTON, P.S.I., South Hastings.
I Lave carefully examined "Swinton's Language Lessons," and nm convinced from what I have heard from some of my most experienced tenchers, that it is by far the best Elementary text book ou the subject that has yet been placed within reach of our Canadian ctildren. The simultaneous exorcises in composition are au admirable feature. I shall recommend the book for use in all the schools in my district.
J. M. PLATT, M.D., P.S. Inspector, Picton.

I am graatly pleased with this little work. Our best and most experienced teachers teach grammar to junior classes orally, after the same fashion. Young and inesperienced teachers can do as well with "Language Lessons" as the oldest and best can do without it. To pupils just entering upon this important branch, this little book in question has ao superior in the market.
W. S. CLENDENDNG, Inspector East Bruce, Walkertou.

*     * With its valuable aid the teacher will find it no difficult task to make the study of language agreeable to even junior pupils. I esteem it so highly that I will use my influence to get it into the hands of every teacher in my district, and, if authorized, into every school likewise.

RCBT. MATHESON, M.A., H. M. High School, Walkerton.

*     * Language Lessons will assuredly prove a boon to teachers of composition. I find that for teaching English Gram. mar it is superior to the usual treatises, as it treats of Grammar in a practical manner.
C. MOSES, P. S. I. County of Haldimand, Caledonia.

I have carefully examined Swinton's Language Lessons for junior classes and consider it one of the best yet published, being admirably adapted for use in our public schools.

## BEATTY'S SYSTEM OF PRACTICAI PENMANSNIT.

## A New Hanadian Series of Head-line Copy-books for High and Public Schools.

Complete in 9 rumbers, systematically graded and arranged to meet the requirements of our Schools. The series is divided into an ELEMEN. TARY and ADVANCED COURSE, eaoh complete in itself. The ELE? ENTARY COURSE consists of fovr books and tho ADVANCED of FIVE.

Boos No. 1. Teaches tho contracted small lettors, viz., i, u, $, ~ x, ~ m, m, c, o, w$, $a, r, s$, concluding with words formed from them by combination. The lotiors are introduced synthotically and are faintily printed on the surface of overy page to be traced with pen and ink by pupils in primary divisions.
Boon No. 2. Introducos tho oxtonded let tors, viz., p, $t, d, b, h, k, 1, f, y, j, g, z$, and the first class of capitals. It also roviews the contracted or minimum lettors giren in Book 1 .
8 OOR No. S. Teaches Curcent Capitals constructivoly and affords Practice upon Words. The introduction and classifination of Current Capitals fornis a prominent feature of tho practical charactor of those Copy Books.

Boor No. : onsists of Sentoncos in 2 reduced hand suitable for Ladies Hand. It is cloar, opon and attractive to tho wost consorvative. The four pri mary Books constituto s short course complete in itsolf, and should a pupis
bo necessitated to lenve school boforo using the advanced books, ho has a good knowlodgo of penmanship.

Book Nos-This buok fntroduces a raothod of securing uniform and curruct Spacing in caci lettor and word, by means of rulipg upon ovory copy and pago of tho book, thas ostablishing firmily theso ossuntial habits. Alsu, a method of oxhibiting the 2 elative proportion of tho lotters in every cojy, by means of an engraved scale, so as to rondor them scli-instructing to the pupil. Books 6 and 7 , for advanced pupils, ombrace the wholo subject within a small space.
Book Fio. 8-Forms for boys-Notes, Drufta, Rocoipts, etc., in a plain business hand, giving a varioty of curront capitals.
und. giving a varioty of curront capitals.
Book No. 9 - Finifhing book for girls-Notes of Invitation, Answors, Forms,
otc., in a meat ladies hand.

The Engraving and Printing of the copies are executed in the best manner possible and only paper of a saperior quality is used in their manufacture

Aftor caraful ozamination of Boatty's Bystom of Ponjannahip I considar it nraferable to uny I have examined and shall introduco it in our schools at onco.
D. J. Googry, Head Master Model and Publio Schools, I'ort Hopo.

I ? iave examinod Boatty's 8ystem of Penmanship and consider it excollent I gh ill rucummend it in preferenco to any othor with which I an acquaintod. CILAB. CLARHEON, B,A.,

Euad Minstor Brockillo Modol Bchool.
Bostty's Systom of Panmanship is just what is roquirod in our pablic E cols, it will moet a want long felt by Canadian toachers. I havo introduced $t$, Hnale sorios in tho Bodol and Pablic schools of this place.
W. E. Sprague,
H. M. Co. Model and Pablic Schools, Tom of Cobunrg.

Bolieqing Mr. Boatty's Systom of Ponmanship to be the best I haro soen, I shall tske great pleasuro in introducing it into tho schools under ray charge at the esrliest possible opportunity.

Geo. Morn, Principal St. Merys Public Schools.
I havo examined Beatty's Bystom of Ponmanship, and think it is in advance of anything I havo beforo seon. Will have it introduced in our schools as soon as possible.
S. HETEXEDCOTT, H. M. P. B. Mitchell.
I heve carotally oxamined Beatty's Systom of Ponmanship and am of opinion that it is in advarce of any othor systom that I have horotoinco eramined I would bo glad to 800 it oconpy a place is our schools, and shall earnestly recommend its introduction. .PW. G. KidD, Inspector P. B., Eingston.

Aftor having carofully oxamined Beatty's Copy-books, I havo no besitation in saying that they aro the beat I havo yet seen. Thoy aro graded to suit both rural and town schools, and will supply a want which f havo long seon to oxist. Joms M. Momax.
P. 8. I. South Perth.

Having oxamined tho sorics of Copy-books by Brr. Beatty, I havegreat pleasuro in stating that in my opinion thoy aro a groat improvemont ou tho Payson, Dunton \& Scribnerserics. With one or two changes, which I boliove aro contomplatod, i think thos can be made to oxcol-if not, to at least ognal, tho best
pablications on tho continent.
H. M. Model and Pablic Schools, Stratford.

Boatty's 8ystom of Ponmanship is an oxcollont mothod of taaching that subject. I Foula rocommend its trial in our schools.

THOS. Hillitard,
P.S. I. Town of Watorioo.

From tho Penman's Art Journal: The author has vory wisoly adoptod and combined with his own ideas, all the good eatures in tho besi American Copy-books. The result is that tho sorios now bofore us contains a combination of the best points in tho most yopriar of our sories, and is bottor adapted to all grades of pupils than any of its prodecessors. Tho books are so gradod and arrangod, and the instructions on tho covers so cloar and full; that moro real practical ponmanshipmay be loarnod from thom in threo months than from tho ordinary cory-booke in a whole year.

# MILLER \& CO.'S EDUCATIONAL SERIES. <br> APFROVED BY THE MINISTPER OF EDUUATION. <br> <br> HAMBLIN SMITH'S ARITHRTETIC <br> <br> HAMBLIN SMITH'S ARITHRTETIC <br> Adapted to Canadian Currency, by Thos. Kimerand, M.A., Science Master, Normal áchool, nind W. Scorr, D.A., Hend Master, Modul <br> SWINTON'S LANGUAGE LESSONS. 

School, 'Ioronto. Price \$1.

- T.e exannieas would re commond tenchers who may bo proparing candi diter for thas examanatiou to procuro the Camadian edition of Famblin
 Hastengy- Duily Ontarto, Bellevillo.


## HAMBLIN SMITH'S ALGEBRA.

Wath Appendix, by Alfreal Bater, B. A., Mathomatical Tator, Uusversity Cullege, Toronto. Price 9 to.

THOMAS KIBKL.AND, M. A., Selence Master Normal School.
It is the text-book or Asebrin for canhinates for second-class cortnnentes und for the lutormedate Fsmmation. Aet the least valuable partof at is the Appeutax Dy Ir. Baker."

GEO. DICLSON, B. A., Head Master Collogiato Instituto, Hamilton.
"Arringement of subjects good : explanations and proofs exhaustivo. concise and clear, cxamples for the most part from Caiversit, and Collese oxam ination papors, are numerous, oasy and progressive. "Chore is no vetter Algebra in use in our High Schools and Collegiate Institutes."

## HAMBLIN SMITH'S GEOMETRY.

With Eaamiaation Papers by Thos. Kirkland, M.A., Sch. Ed. 90c. Hamblin Smith's Geometry, books 1 and 2, with examination papers, 30c.

WM. 1Z. MIDDFLI, B. A , B. Sc., Math Master Otiawa Normal Schonl.
I have uxumanad Humbha Stuaths Geumetry, and consider at, fur privato stud., havalauble, mad for class work, inforior to nowe. The demionstrations in their conciseness and the symbols onnloyod aro mudels which any studont wontd do woll to imitato: whilo the modifications in tho order and inothod of dennobitratiou constitute a happy step in the ritht alirection.0 the 'Teachers' Exammations.

## HAMふLIN SMITH'S STATICS.

With Aprendix by Thomas Kirklaud, M. A., Ncience Master Normal School, Torontos Price 30c.
H.mblin Smith's Hydrostatics .75 cents
alfand bakelf, 13. A., Math. Tutor, Univ. College, Toronto.
"Thero are fow bocks in elementary mathomatical scienco that 1 can more conidently recommend. Tho arrangoment of the 'book work' is adhurHble, ts treatment cloar, and tho subject made as slementary as it can be, comsistent with a scientific troatment of it. In such a study, the working of prohtems will excito tho samo plousure and inypart to tho subjr ct the same tolerest chat the conductam of experiments dues in chomastry. Tho exam.
 probressive, and ending with problems of sullicient dilliculty."

## AN ALYSIS OF THE ENGLISH LANGÜGE.

By I. Plant Fleming, M. A., D. C. L. With a selection of Examinatiou Papers from nur Canadian Oniversities, by W. Houston, M. A., Eaammer m Eagash, Toronto Unversity. For uso in Public Tigh Schools and Collegiate Iustitutes. 2ad Ed. Price $\$ 1$.
J. SEA'TH, B. A., Head Master Collegiato Iustatuto, St. Catharines.
"Floming's Allalysig has beonin uso here for about two years; it is the


GEO. R. If COCkJUURN, M. A., Principal U. C. College.
"During the last troo or threo years 1 have used 'Floming's Analysig' in the ('pper Forms of $U$ C Colloge, with the most satisfactors rosuits it is the (pper Forms of $U$ C Colloge, with the miost satibiactory rosuits it is

## ENGLISH GRAMMAR.

By C. P. Mason, B.A., F.C.P., Fellow of University College, London. With Examination Papers by W. Hoostos, M.A. XXII Edition Price, 75 cents.

ALEX. SIIIS, M.A., H.M., H.S., Oakvile.
Cprards of three vearsago 1 asked a grammar school inspector in the wh culatry to gind wi tho beot grammur putished thore. Ho immediatcly sunt me Mason."
J. MORRISON, M.A , M.D., Head Master, High School, Nowmarket.
"I Ihzo orderod it to be used in this school I consider it by far the hest Finchsh grammar for hagh school purposes that has yet appoarod. With 'Hison' und 'Floming' nothing more socms to bo deaired."

Adapted to Junior Classes, Public Sohools, by J. MacMillan, B.A., Ottama Coll. Inst. Prico 250.
R. DAIVSUN, B.A., T. C. D., Hoad Mater iligls Sr liool, Bollovillo.

I have beon vory much ploasod by the itwsortuction of "Swintou's Lay guago Losson's.' into tho list of Caniddnn School Books. It is simplo, compro censive, aud relinble; and shows very clonrly bow castly tho sturly of graminar may bo mudo to go hand in hand with tho practioc of componition, tho groa end for which grammar ought to bo taught. We huve at hast an olomuntary text book which may bo ontrusted into tho hands of tho must inoxpericucod teacher without any fear of its being ububod.
W. S. CLENDENING. Inspector East Bruco, Walkortinn.

* With its valuablo aid thn toachor will fud it no difncult task to mate tho study of lang'ufo apreoable to uven jumor pup 1 c . I estoem it so bigbly that I will uss my influcuco to got it into the hands of overy toacher in my district, und, if authorized, into every school likevise.


## BEATTY \& CLARE'S BOOKKEEPING.

A Treatise on Single and Doublo Entry Book-Keeping, for use in High and Public Schools. By S. G. Beatry, Principal Ontario Commercial, Belleville, and Sasfel Clare, Book-Kceping and Writing Master, Normal School, Torouto. Price 70c.

HUGI J. STRANG, B.A., H.ay., H.S., Goderich.
"* * Its elucidation of tho subjoct buing clear and adequato, tho work will prove a raluablo aid tu all who nay wish to mako thomsolves thuroughiy acquainted with the principles of Book-Keoping."
J. 8. CARSON, Iuspeetor, Ifiddlesex.
" * I am assured from an examination that it is suporior to any other work for our Canadian schools."

QEORGE BLAIR, I. P. B., Grenville County.
". . * I consider it tho Lest introduction to Book-keoping I have

## HOW TO READ;

A drill book, for correct and expresssve reading. Adapted for the use of schools. By Richard Lowis, Teaoher of Elocution, Author of "Dominion Elocutionist." Prico 75c.
J. M. PLATT, MI. D, P. 8. Inspector, Picton, Ont.

Lowis" "How to Read" is ono of the finost little books over intruduced into our Canallan schocls. No offciont teacher will fail to have his senior classes supplied with the work at onco."
E. M. BIGG, M. A.
". I wish it conld be introduced into evory school. Nothing is so much nceded in vur schools as such a work."

## ELEMENTARY <br> STATICS.

By Thomas Kirerand, M. A., Science Mastor, Normal School, Toronto. Second Edition. Prico, \$1.00.
The following are the chiof charactoristics of this work :-
1st-It requires from the Studont only o knowledge of Euclid, B. L, and Simplo Equations in Algobra.
ind-It contains chaptors on the Purallologrum of Forcos, Resulution of Forces, moments, Contro of Gravity, Mochanical Fowors, Virtun' Vulocities, dc.

3rd-It contuins a -ory largo number of Exorcisos, many of thom solved,
and hints for the solution of all tho more diflicult ones.
4th-It 18 oxpressly adapted for Candidatos for First and Second Class Cortificates, rad for the latorincdiato Examination in High Schools cad Collogiato Institutes.

## REID'S ENGLISH DICTIONARY.

## Pinice - - $\$ 1.00$.

I. B. CARBEAN, MLA., P. S. Inspector, Cornwall.
." - If find the arrangement simple and plain, well sulted for the use of Schools. * I will taku plousaro in rucomonendag tho mork to my Teachors and thoir Scholars.
F. Bunnows, P. S. Inspector, Napanee.
"As a conveniont and choap Etymological Dictiomary, I find it dosorredly popular among our Tenchors."

