## Technical and Bibliographic Notes / Notes techniques et bibliographiques

Canadiana.org has attempted to obtain the best copy available for scanning. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of scanning are checked below.

Coloured covers /
Couverture de couleur
Covers damaged /
Couverture endommagée
Covers restored and/or laminated /
Couverture restaurée et/ou pelliculée
Cover title missing /
Le titre de couverture manque
Coloured maps / along interior margin / La reliure serree peut causer de l'ombre ou de la distorsion le long de la marge intérieure.

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 /
Relié avec d'autres documents
Only edition available /
Seule édition disponible
Tight binding may cause shadows or distortion


Canadiana.org a numérisé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de numérisation sont indiqués ci-dessous.

Coloured pages / Pages de couleur

Pages damaged / Pages endommagées
Pages restored and/or laminated /
Pages restaurees et/ou pelliculées
Pages discoloured, stained or foxed/ Pages décolorees, tachetées ou piquées

Pages detached / Pages détachées

## Showthrough / Transparence

Quality of print varies /
Qualité inégale de l'impression

Includes supplementary materials / Comprend du matériel supplémentaire

Blank leaves added during restorations may appear within the text. Whenever possible, these have been omitted from scanning / Il se peut que certaines pages blanches ajoutees lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été numérisees.

Additional comments $/ \quad$ Continuous pagination.
Commentaires supplémentaires:

## Barker \& Spence's

 Graded Course of Four YearsLectures and demonstrations for students of the First and Second Years given in the Lecture Rooms and Laboratories of the buildings of the University in the Queen's Park; for the Third and Fourth Years, in the Medical College, corner of Gerrard and Sackville Streets. Clinical instruction given chiefiy in the Toronto General Hospital.

The Next Winter Session will Commence 0ctober 3rd.
WM. T. AIKINS, M.D., LL.D., DEAN.

ADAM FH. WRIGHT, M.D.
SECRETARY.


## SHORTHAND INSTITUTE

34, 36, 38, 40 James St. S., Hamllton, Ont.
Teachers preparing for Departmental Examina-
tions as specialists in
Commercial subiects. Short tions as specialsts in Commercial subbects. Short
hand, and Drawing should attend the H.B.C., which ity graduates and teachers art Art School. UniversNote name and and teachers are now in attendance.

SPENCER \& MeCULLOUGH, Principals.


Fine Art, Commercial Science, Elocution. Mnivers-
ity tricultation and Prepares for Junior and Senior MaSchool Teachers' certificates accepted pro tanto on
 St. Thomas, Ont Address, Principal Austin, B.A.,

The most thorough School of Business Training in Canada. owned and conducted by a Company of Business Men. Investigate before entering any other Business College. The Famous New
Rapid Snorthanc is taught.

## FALL TERM OPENS SEPTEMBER 5th

Circulars Free.
College of Commeroe, St. Catharines, Ont.

## UNIVERSITY OF TORONT0

澌

## MEDICAL FACULTY

## ADDRESS,

The Crip Printing \& Publishing Co. TORONTO.

Summer Session During July

## Ontario Ladies' College, wartz, oxt.

Affords an exceptionally pleasant Home and prepares pupils for Third, Second and First Class Teachers'Certificates, also Matriculation, Freshman and Sophomore Examinations in Victoria or Toronto University. Full Conservatory Course in Instrumental and Vocal Music, Fine Art, Elocution and Commercial branches taught by gifted specialists.
Apply for further information to
Rev. J. J. Hare, Ph. D., Principal.

## WARRINER'S

ØLGEE= ©inMEREE

TORONTO

For modern, thorough

## SHORTHAND

AND

## GUELPH

Business Gollege GUELPH - - ONTARIO

Students may enter at any time with equal advantage.
The demand for our graduates is greater now than at any former time, because the quality of our work
is more widely known. more widely known.
In view of the superior advantages afforded, our elf-supporting Ca the most favorable offered by any The tuition given in our Modern Language Department is, alone, worth the entire cost of tuition in The development of s
The development of sterling character is the foundation principle in our system of training; hence the
confidence with which our graduates are everywhere The self-supporting school is the only educational institution founded on a basis of absolute justice. Standing on this basis, and on the genuine merit of ts work, the "Guelph Business College" respectully solicits public patronage.
The Annual Circular, giving full information, and ing, will be sent free to any address on application M. Maccormick, Principal


Business College.
Formerly National Business Collegr, Catalogues free.
Address, JOHN KEITH, Principal, Ottawa, Ont.
Toronto College of Expression
Elocution, Oratory, and Dramatio Art
Most efficient faculty, most advanced methods Gail Term beglae Oct 17th Advantages address,

PRINCIPAL MOUNTEER
Arcade, cor. Yonge and Gerrard Sts., Toronto

## INTERNATIONAL

## Business College

Cor. College St. \& Spadina Ave., Toronto

## Business and . Established Shorthand in canada : 30 Years Send for Illustrated Catalogue. <br> R. E. GALLACHER, Principal, HAMILTON, ONT. <br> 

Cor. Yonge and Gerrard Sts., Toponto Cor. Market and Erle Sts., - Stratford

In the very ront rank of the Commercial Schools of this country, young people desiring the very best
business training are invited to correspund with these susiness training are invited to correspond with these
schools. Two first-class institutions under the same management. Business practice conducted between our colleges.

## Opens September 5th

Handsome Catalogues Free.

SHAW and EHLLIOTT, Principals.

A thorough business education, shorthand, Typewriting, Telegraphy, otc. We make no boast, but we earnestly strive to fit our students to fill and to hold any situation they may obtain as accountants. A student well put through the course and better advertisement for us than much puffing J. M. MUSCROVE, Principal


New Building (second flat), Talbot $\mathrm{St}_{\text {. }}$ orposite East St., St. Thomas, Ont. Fall Term Opene 8ept. courses of instrucfion, experienced teachers holding high-grade Public School certificates, this College offers unusual advantages to those desirous of qualifying themselves for the duties of the counting house or the office. "Problems in Commercial Arithmetic" sent post-paid to any address on receipt of price, $50 c$.
Send for our new illustrated catalogue before deciding to go elsewhere. Address, W. A. Philifes ing to go elsewhere. Address, W. A. Phillipe,
Principal, box 386 St . Thomas, Ont.

## The Eiducational Journal.

## J. K. Cranston's Partial List

## OF NEW BOOKE ANI NEW EDITIONS

Postpaid on receipt of price.
Full List Upon Application.

## REGULATION PUNISHMENT STRAPS

Grove's Part I Arithmetic Exercises. Scholars' Ed. 3rd \& 4th class Teachers' Edition
A Business Instruction and College Course. A concise manual by Prof. McCollum
Armstrong's Arithmeticai Problems. 3rd and 4th class.

## White's

Rowe's
Boyle's Fints and Expedients. You need it
Panctuation Manual. By Taylor.
Strange's English Composition
Houston's 100 Lessons in English Composition
Normal and Model School Students and Primary Teachers. By Sinclair Hamilon.
Rowe's Language Training.
Bellum Gallicum III. and IV. 2nd ed. Notes, vocab. and exercises by J. Henderson, M.A., or Robertson. (Book III. in separate volume 50c) Virgil's A巴neid. Book I. Notes and vocabulary by J. Henderson. M.A. Labiche, La Poudre aux yeux. Notes by L. G. Burnblum.
Crito of Plato. Clatendon Press. Notes by St. George Stock.
Apology of Plato. Clarendon Press. Notes by St. George Stock.
Livy XXI. (Adaptepd from Cape's edition. Elementary classics. Notes and vocabulary by J. E. Melhuish, M.A.
Xenophon Anabasis IV. Notes and vocabulary by E. D. Stone, M.A.
Wordsworth's Selections. Preface by Arnold. Annotated by M. F. Libby, B.A., or by Wetherald.
Irving's Sketch Book. Annotated by Fred H. Sykes, M.A., or by G. A. Chase, B.A.

French Literature 1893. Annotated by Sykes and McIntyre. Also by Squire and McGilvery.
Virgil's Aセneid III. Elementary classics. Notes and vocab. by Page.
Virgil's feneid IV. Elementary classics Notes and vocab. by Stephenson
Shakespeare's Macbeth. Clarendon Press. Edited by Clark \& Wright.
Shakespeare's Macbeth, or Rolph Edition
Fheuillet's Roman d'un Jenne Homme Pauvre. Owen and Paget. Hodges' Scientific German..
Fiomer's Iliad I. Elementary classics. Notes nd vocab., Bond \& Walpole Einomer's Odyssey VII. to XII. Clarendon Press. Notes by Merry..
Henderson \& Fletcher s First Latin Book.
Hall \& Steven's Euclid I. to VI. and XI
Hall \& Knight's Elementary Algebra
Colton's Practical Zoology.
Rosenkranz' Philosophy of Education. Interl Educ. Series
McLellan's Applied Fsychology
White's Elements of Pedagogy.
Compayre's History of Pedagogy
Sully's Teachers' Handbook of Psychology.
Tait's Analysis of Green's England
Laurie's Lectures on Linguistio Method.
Welsh's English Composition.
Baldwin's Psychology, Applied to Teaching. Inter'l Educ. Series.
Gill's Systems of Education
Raderstock's Habit in Education.
Collins' (J. Churton) Study of English Literature.
Public School Fistory of England and Canada. By W. J. Robertson, B.A. Authorized by Education Department.
Book-keoping Blanks, For examinations. For use with McLean's High School Book-keeping. Contains all necessary blanks and forms for book-keeping examinations.
..25c., 45c., and
Botanical Note Book. New Edition, illustrated. Containing Blanks for description of plants, leaves, and flowers. By F. W. Merchant, M.A. Spotton's Botanical Note Book. New ed., illus. Containing blanks for description of plants, leaves, and flowers. By F. W. Merchant, M.A. Chaucer's Prologue. Clarendon Press. Edited by Rev. W. W. Skeat, Litt.I). Special Canadian edition
Chemical Note Book. For class use with Knight's Chemistry.
Hementary Algebra. Chas. Smith, M.A. 2nd ed. Revised and enl'g'd
Elementary Trigonometry. J. B. Lock, M.A., Cambridge. Can. ed.
Exercises and Examination Questions in English Grammar. By M. F. Libby, B.A.
Freytag's Die Journalisten. Edited by Prof. Lange, Ph.D. Cloth. Kelly's \& Giles' Keys to the Classics. List sent upon application. . Lessons in French. Fasquelle and Sykes. Authorized by Educ. Dept. Practical Exercises in English Composition. By H. I. Strang, B.A. Public School Speller and Word-Book. New and enlarged edition. Part IV. contains Latin and Greek roots, etc. By G. W. Johnson.
Quick's Educational Reformers. Preface by W. T. Harris.
Riehl's Culturgeschichtliche Novellen. Pitt Press Edition. Notes and Index by H. J. Wolstenholme, B.A. In one volume with Schiller's Der Taucher. Notes by W. H. VanderSmissen, M. A
Simple Rules in Arithmetic. For use in Second Book classes. By R. T. Martin Smith's Language Exercises. For ist, 2nd, and 3rd Bock Classes
Tweed's Grammar ior Common schools. Reurinted fiom Lee \& Shepard's ed. Robertson and Carruther's Primary Latin Book. Just authorized.
J. K. Cranston,

## MAMMOTH * BOOK * STORE.

We have constantly in stock Educational Books of all kinds. Also the late works in Science and General Literature. Any book, not in stock, supplied on short notice, if in print. All mail orders filled promptly
RISSER \& CO., Successors to R. W. DOUGLAS \& CO. 248 yonge street, - toronto, ont.


## Woman's IMEedical Collegfe <br> In affliation with <br> TORONTO

$18 \cap 2$ Summer Session Opens April 25th
TENTH Winter Session Opens October 3rd
Apply for announcement, giving full information, to
Dr D. J. GIBB WISHART, Secy., 47 Grosvenor St.. Toronto


Do You Want to Know all About Footballs? Address,
D. FORSYTH \& CO., BERLIN, Ont.

Or 17 Pelham Street, Boston, Mass.
ta Copy of the Rules Free to any one Mentioning This Paper ta

## A BOOK OF

Business Instruction
PROF. J. G. MoCOLLUM'S
Business College Course
Containing Several of the Most Important Business Subjects, as follows:
Revised Single Entry Book-keeping, Practical Banking,

Business Papers, Business and Social Correspondence, Farmer's Book-keeping,

Commeroial Paper,
Commercial Law.

A concise Business Manual, replete with such in-
A concise Business Manual, replete with such inengaged in business or not.

Price, 60 cente, pootpald.
WILLIAM BRIGGS
Wesley Buildings, Toronto.

## s ETIETET \& O

42 Church St., Toronto,
Agents in Canada for the Milton Bradley Company's School and Kindergarten Material

The Canadian Office and School Furniture Company
Preston, Ont. Successors to W. Stahlschmidt \& Co.. Manufacturers of Office, Schoul Church and Lodge Furniture.
Awarded Gold Medal at Jamaica Exhibition.


The "Perfect Automatie" School Desk The Latest and Best
The School Desks of this Company cannot be excolled Comfort to the Scholar. Send for Circulart.

# The Educational Journal. <br> CONSOLIDATING 

"The Educational Weekly" and "The Canada School fournal."

| Subscription, \$r.50 a year. In advance. |  |
| :---: | :---: |
| Table of | Contents. |
|  |  |

## * E¿riłorial Nołés. 粦

We have received, just as we are going to press and too late for this issue, several inquiries for Question Drawer, with special requests for answers in this number. This frequently happens, our friends failing to make allowance for the time necessary to make up, print, fold and bind the paper. Please note that in order to insure answers in next number all communications should be in our hands at least one week before the date of the paper.

It is to be hoped that in every school in the Province, arranyements will be made for some kind of celebration of the Columbus Centennial, on the 12th of October, as requested by the Minister of Education. The occasion is a valuable one, and may be turned to good account, in the way of interesting the pupils in the history of the discovery, settlement and civilization of the Province. We will do our part, and provide a supply of material, including an historical and biographical sketch, and selections for recitation, in next number, which will be in the hands of teachers nearly two weeks before the date named. Meanwhile teachers can be refreshing their own memories and preparing themselves to make the most of the opportunity.

The system of free text-books is now fairly inaugurated in Toronto. If we are not in error, this is the first trial of the system which has been made in Canada. In many places in the United States, free textbooks have been the rule for years. We
have not heard of any case in which the plan has been discarded after trial. To our thinking, free books and other school implements, are the logical completion of the free school system. It would be difficult, we think, to quote any valid argument for the latter, which does not apply with equal force in favor of the former. There is, too, the important consideration of the great saving of time (and temper) to both teacher and pupil, which will result from always having the book or other educational implement, ready for use as soon as wanted.

What constitutes an educated man or woman? President Gilman, of the John 3 Hopkins University, says that "five intellectual powers should be the property of every liberally'educated man." These he enumerates as follows: the power of concentration ; the power of distribution, by which he seems to mean the ability to arrange and classify the knowledge gained on any subject; the power of retention; the power of expression; and the power of judging. In addition to these developed powers, the liberally-educated man must also have certain possessions in the shape of acquired knowledge, as a capital stock upon which his powers may work, and which may be of service to him for the promotion of his enjoyment and usefulness. We do not suppose that this classification is meant to be exhaustive, and we are not sure 'that it is the best possible, so far as it goes, but it iseminently suggestive and will serve well as a test, or rather a series of tests, by which any reader who is so disposed, may try his own mental state and acquirements, and perhaps be helped to some clearer ideas in regard to his own deficiencies, and the best way of setting himself at work to overcome them.

Tr death of the poet Whittier, at the age of eighty-four, removes another of the old literary landmarks. Though scarcely entitled to a place in the very first rank, Whittier deserved, and will no doubt inherit undying fame as a sweet and gentle bard, whuse harp was always attuned to the loftiest and purest sentiments. It is to his lasting praise, that, having lived long and written much, he has left behind him no word, " which, dying, he would wish to blot." His fame will be enhanced by the fact that he was one of the noble few who bravely
and nobly espoused and stood for the cause of freedom, in the dark days when it required no ordinary courage to plead for the downtrodden slave, when to be known as an abolitionist, was to incur the almost mortal enmity of the slave-holding oligarchy and to be denounced as a fanatic by the timid Northerner. Whittier was almost the last survivor of a little band of emancipationists who deserve immortal honors, for their moral heroism in a time of cowardly compromise, as well as for their splendid talents devoted to the good cause. No doubt all our readers are more or less familiar with Whittier's writings. A study of his life and a few of his choice poems, would form an appropriate exercise for a Friday afternoon, or a literary evening.

Touching the matter of good English, it is astonishing how much slipshod writing finds its way into the educational papers and magazines, which ought, one might say to be especially careful in this respect. We dare not hope that the Journal escapes without its share. Certainly a good many of our American exchanges are lamentably careless in regard to the articles they admit into their columns. Nor are the solecisms confined to what may be called the secondrate contributions. Not unfrequently excellent articles are marred by carelessness in style and expression such as the writers would, we are sure, criticise sharply in their pupils. In a valuable paper which we recently republished from one of the best of our exchanges, were to be found such slips as, for example, " buth in knowledge and state of mind." "To-day we will only consider one, etc." Of course the in, in the first sentence, should either have been repeated before "state" or placed before " both," while in the second, the writer affirms that he will do nothing that day but " consider," etc., whereas he evidently means that he will that day consider only that one point, leaving others for a future occasion. Careful attention to these little matters is one of the elements of precision in speech or writing, and without precision there cannot be absolute clearness. Then we notice that some of our own teachers, and many of the American, talk about "starting" or "starting out," when they mean beginning and setting out. These are instances which occur to us on the spur of the moment. Others may be noted hereafter.

## * Spécial Papers.

THE CHARACTERISTICS OF AN IDEAL LESSON.
E. P. Huaurs, in The Journal of Pedagogy.

The process of education is something much more than the giving of lessons. A teacher may be cap able of producing excellent lessons, and yet be by no means an excellent educator. Still, lesson-giving is a large part of the work of the day-school teacher, and it is universally accepted as one of the chief means of education. It is, therefore, worth our while to concentrate our attention on it.
One of the most hopeful signs in English secondary education at the present time is the ever-swelling discontent among teachers as to the level of teaching skill at present reached by us. We are not at all satisfied with our performances as lessongivers, and we want to grow more skilful. Many of us are somewhat vague as to how that end is to be attained, and those who have fairly clear ideas on that subject disagree among themselves as to the best means to be employed; but, at any rate many of us have taken the first step--glorious discontent. In the days fast passing away there were two rough-and-ready methods largely used to gain teaching skill : the first was to go to a class and teach as best you could, until you could teach it in the right way-an extravagant method, extravagant in time and energy and failure, for both teacher and pupil. Another method, not so commonly used, was to go and hear good teachers teach. To this there are two obvious difficulties -(1) many schools are still organized so that a teacher is never free during lesson time, and (2) there are still teachers who refuse to allow others to hear them teach. What other means are left to us? Many, I think, but to-day we will only consider one-the calm consideration of the abstract question, outside our class-rooms, in such a manner that the result of our thinking may affect our teaching.
There is an obvious advantage in discussing the question in as general a manner as possible. (1) Knowledge so expressed, i.e., general knowledge, is much more emphatic, likely to arrest our attention, and to remain in our meunory, and, therefore, more likely to affect our action. (2) It is a great safeguard to express knowledge in as general a form as possible, because we often detect errors in so doing. (3) General kuowledge is the most convenient form in which to carry knowledge, because it is the most concise. On the other hand, the more abstract the consideration, unless one has plenty of examples to illustrate it, the loss likely one is to apply it to practical life. I will consider the question of lesson-giving in as general a manner as possible, and ignore differences of subject, differences of pupils, and differences of conditions. After all, there are certain elements which are always present in every lesson. There is always a teacher, always pupils, and we must have a subject. I will enumerate twenty characteristics which appear to me to be essential to an ideal lesson :-

1. The teacher must know what result he wants to gain from the lesson-i.e., the ideal lesson has a definite end. This really seems obvious. I feel inclined to apologize for bringing it forward, but I do so because I constantly ask teachers what is the result they are trying to gain, and they do not know. Educating is a very hard task. To do it well we must expend an enormous amount of time and energy, and so must our pupils. Surely it is not rational to expend this without considering the end which we wish to attain. I do not sympathize much with a teacher who frankly confessed to me the other day-"My object is to get my boys through certain examinations. Their parents have sent them to me for that purpose, and that is my end." I do not sympathize with him, but I know the chances are that he will gain his end, because he knows what he wants to gain; and his career is rational, if it is not noble.
2. An ideal lesson must have a threefold result on the pupil-(1) an increase of right motive power ; (2) an increase of intellectual power; (3) an increase of organized knowledge. I have put the third last, because I consider it the least important. It is more important for the schoolboy to want to learn, and to know how to learn, than to gain learning in school days. Obviously, however, the three parts of the result are by no means contra-
dictory ; in fact they are immediately connected, if you begin at the right end. Alas! one can begin at the wrong end, and then there is no necessary connection. We can give knowledge to a boy in such a way that we have decreased rather than increased, his desire for knowledge. We can als give knowledge so badly (e.g., using an inaccurate form of reasoning) that we deaden rather than develop a buy's powers. To speak frankly, this is no doubt done, otherwise we should not have to mourn, as we do at present, over the absence of much real love for learning in our secondary schools. A small boy said to me the other day, "I hate lessons, but I love school, because there are the games, and the fun of being with a lot of boys, and the fun of trying to dodge the masters. We put up with the lessons for the sake of the rest." I feel sure he had not been receiving ideal lessons. If we begin at the right end, all good things follow. If we, first of all, aim at teaching them in such a way as to exercise all their powers, the third resultaccurate, well organized knowledge-will inevitably follow. Mere instruction is passing out of fashion. We talk a great deal now about the developunent of all the faculties; but this is not enough. We do not want a good mental machine, capable of excellent work, but we want steam to drive it. I do not think we teachers expend sufficient thought and energy on developing strong and right motive power. Whatever may be the subject of a lesson, and whatever the conditions, the ideal lesson will obtain the threefold result.
3. An ideal lesson must be complete in itself. We must have a beginning, a middle and an end. I know this is regarded as a fad of Training College officials, but I feel sure it is a means of quick progress. Some lessons are obviously more isolated than others, but each ssries of lessons, however intimately connected, is a string of wholes. How many teachers go on with their lessons till the bell rings ? and if it had rung five minutes earlier, or five minutes later, it would not have affected the artistic unity of the lesson, because it had none. I feel sure that the teacher is refreshed and rested by getting through what she meant to do, and the class is stimulated also by seeing that the lesson is complete and finished. When the divisions are not obviously suggested by the subject, it is desirable to use devices to isolate the different parts. I believe it is an innate quality of the normal person to tind it easiest to take food in definite spoonfuls, be it physical or mental food. So much for the subject-matter of each lesson, which I suggest should have a certain amount of completeness in itself.
But when I plead for the artistic completeness of a lesson, I mean more than this. I mean that it should have a beginning and an end, as well as a clearly-defined middle part. There are very few of us who can plunge at unce, with all possible vigor, into a subject that someone else chooses we shall study; sometimes we find it hard to do this even when we choose the subject ourselves. It is, of course, far mure difficult for children to make a g od and rapid beginuing than for adults. Many a good lesson has been spoilt because it began too soon-i.e., befure the children had been properly prepared to begin, prepared both in kuowledge and state of mind. I remember a volunterer officer telling me once that he always spent the first few minutes of drill in speaking to his men. He did this because they had been employed in ditferent kinds of work during the day, and it was necessary that their minds should be brought round to the subject in hand. Also, they had not been working together during the day, and now he wanted them to work together as one man. In other words, he believed in having an introduction to the lesson, and so do $I$. An ideal lesson does not really begin until all the members of the class are ready to work together as one man, and until their minds are concentrated on what they are going to learn.
The ideal lesson must also have a proper and complete ending. Assuming that our pupils have gained in motive power, faculty, and knowledge, our campaign is over : let us count up the gains. For the sake of the teacher, let us see what the pupils have accomplished; and also, for the sake of the class, let us increase their desire to learn by making them notice what they have obtained in knowledge and power during the lesson.
4. The ideal lesson must be vitally connected with a series of lessons. The quickest way to
ascend a steep mountain is to take a number of
small stops, as long as every step tells. The ideal teacher advances slowly, but advances constantly. The pupil of a famous teacher once said: "We seem to do so little in each part of a lesson, and yet at the end af a lesson we see how far we have travelled, and at the end of the term one is astonished to find huw much knowledge we have gained, and yet we seem to have advanced so slowly." There are many teachers who begin a term's work and have no complete idea of what they mean to teach in the term. Surely, the ideal theory is to draw out a rough syllabus of the term's work, prob. ably of the year's work. A detailed syllabus would perhaps be undesirable and hampering, it might prevent us from being sufficiently guided by the powers of the class, or by one's new reading and thinking. A rough syllabus makes our teaching far more orderly and systematic. It is a convenient guide for our own reading and thinking, and it frequently prevents us from giving a wrong amount of time to a particular part of our subject.
5. The ideal lesson must be preceded and followed by private work. I would lay great stress on this. Our pupils must have the upportunity of private and solitary work, and I do not mean mere memory or mechanical work. Occasionally the following kind of lesson is given. The children can do it without having done any work themselves A kind of lecture is given to them, a mass of condensed and simplitied knowledge is ladled out in paragraphs. The children write notes during the lesson, and occasionally there is a question or two. After the lesson the pupils sometimes write out the notes fully, and anyhow learn them. This may be, and perhaps is, the most expeditious way of preparing for an examination not of a very severe nature, but it is a poor preparation for the days when we hope our pupils will work for themselves without help from teacher or lecturer. Are we doing all we can to prove to our pupils that it is ever so much pleasanter and better to get knowledge for ourselves rather than to have it given to us? Are we not rather turning them into intellectual paupers, dependent on others for knowledge? Are we not producing a class of students who find it difficult to study anything unless they have the stimulation of a course of lectures? I never heard of any one getting a thorough knowledge of any subject merely by lectures. It is true an able teacher can give us help of a very special kind, but this value is great because he can do for us what books fail to do; and what we cannot do for ourselves. Let us teach our pupils from the first "Always try yourself to ,gain knowledge before you go to others for help;" "Never go to a class or lecture without doins all you can before you go you will then be in a fit state to learn, you will not be pauperized but stimulated by the help you obtain, and you will be inevitably spurred on to work for yourself afterwards." It is a good rule always to give a class some work to do before a lesson or lecture, either to get material which otherwise would have to be given them, or to revise old knowledge which will be required, or to lead their thoughts to the central idea of the lesson. A great deal of variety is, of course, possible in this preparatory work ; e.g., an historical novel is often a good introduction to a history course. It is de sirable that the pupils should regard a lesson as a jewel which requires a setting of private work. As we all know, it is private work that really counts most in intellectual progress, knowledge and mental power. The real success of a lesson can often be largely tested by the private work of the pupil after it. The older the pupil, obviously the greater freedom and choice is possible in the private work, and greater demand can be made for original thought. We hear many complaints now a-days about home-work, and it is sometimes suggested that we should have no home-work. If it should be given up, obviously part of the time in school will have to be spent in private work, and we must have longer hours. We cannot educate pupils without this factor of private work.
6. The ideal lesson must be connected with the life of the child. The children in our day schools are with us for a few hours only each day. Outside that time, they have other interests, other needs, other conditions. I think the only perfect life is a kind of double life-one strong and absorbing interest, and outside that, many other interests. For instance, a business man who is only a business man is a miserable sort of a man. The medical man who is only a doctor, and nothing else, may
be a good doctor, but he is not a satisfactory man. The woman who is the head of a household, and has no interest outside her home, is a poor kind of human being. The school-girl who is only a school-girl, is not in a satisfactory state. I take it that the school of the child takes the same place in its life as the business of the business man. It is its definite work, which must be done; it is, and ought to be, the central interest of its young life. But we teachers must do all we can to enable children to lead double lives, to have many interests outside school. Une sure way of effecting this is to lead this double life ourselves. Our work is, and ought to be, the central interest of our life, and on it must be expended much thinking and much energy ; but we must have many keen interests outside. Again, we must be careful that we do not give the children so much home-work that they have no time and no energy to be interested in other things. We must, also, in every possible way connect the school-life of the child with its life out of school. It has been suggested that we teachers ought to absorb all, or very nearly all, the interest of the children during term time, and then parents may have their interest during the holidays for home interests. "Nothing can be a worse preparation for the future life of a child, when we hope he will have, at the 'same time, one absorbing interest, his business or profession, and the many interests of home, society, private studies, citizen duties, etc., etc. The able teacher will discover innumerable links between the school-life and the out-of-school life of the child There are two chief reasons why this connection should take place: (1) We can use the child's life out of school to throw light on its school work Literature is, perhaps, the best subject to take to illustrate this point. An intelligent schoolbuy has had to learn a great deal about human nature be fore he has a single literature lessor. He has had to study the human beings with whom he lives his experiences have been many and varied, and if we know much of child-nature, and have sympathy and tact, we can use his experience frequently to throw light on some of the thoughts to be found in literature. I sometimes hear lessons given whicn seem to assume that the children have never had a single experience outside of the class-room, or, indeed, before the lesson began. (2) If we connect the ideal lesson with the life of the child, we make it easier for the child to use its school knowledge and school power out of school. We do not want the child to lead two lives, one in school and one at home, but rather one life with two sides, and those sides closely linked. It is prepared in school for life, and the sooner and more completely it uses what it gains in school in its outer life, the more rapidly and the more satisfactorily will its education progress
(Concluded in next number.)

## MORAL TRAINING IN SCHOOLS

dr. b. e. White, cincinnati, ohio.
Ethical training is the central function of education, and character the supreme test of the school. It would seem to follow from this fact that moral training should not be crowded into a corner and given the odds and ends only of school time. The one essential condition of vital ethical training is character in the teacher,- the one element that surely works for righteousness in a school is rightness in the teacher's life. It is thus seen that in ethical training character stands before culture or learning. What is this but a recognition of the great fact that the most uplifting force that has yet touched the human race is the inspiring life of the Great Teacher. The supreme ethical need of the school is an inspiring life back of lessons; a soulinspired manhood back of words.

We have at last learned that it is not words on the lips, but truth dwelling regally in the life that touches children's hearts with transforming power. The unwritten law of the school is "No man or Woman shall enter here as a teacher whose character and life are not fit models for the young to copy."

The specific leading purpose of moral training the training of the will, -the training of the will to act habitually from high and worthy motives The practical outcome of moral training is right conduct and right conduct is right motive carried out by an act of will into a deed. It is
thus seen that will training is, in its essentia nature, the effective use of right motives, and here we touch the ethical weakness of thousands of schools. They seek to secure suhool results by an appeal to motives that are low and selfish ; they thrust artificial incentive between the pupils and duty, and thus rob them of the joy and help of virtuous action The two enemies of intellectual and ethical training in the schools are respectively mechanism and artificialism

I do not believe that it would be possible for an angel from heaven to develop manly, true, and self-centred character in pupils by the use of the artificial incentives that have so long been used in many English and American schools,-incentives that increasingly bring the will under bondage to the low and seltish. Think of urging a band of pilgrims on the way to Paradise, every step of the way attended with its own satisfying reward, by a swarm of hornets in the rear for the laggards, and alluring imps in advance waving prizes, class honors, honor seats, etc., and at stated intervals promotion tickets bearing the im age of those gods of the modern school, 90 per cent. to 100 per cent. If his Satanic majesty had taken the job of alluring these pilgrims to that other place, I could understand, in part, the philosophy of his tactics less !
The time has come for a radical and thorough discussion of the whole question of motive as a determining element of ethical training.

Another important factor in ethical training is effective moral instruction, and what is now specially needed is the basing of such instruction on sound pedagogical principles. The ends to be reached by such moral instruction are the awakening of right feelings, the quickening of the conscience, and the development of clear moral ideas-the training of the moral judgment-and in the elementary school the material for such instruction must be concrete examples-not didactic lectures, not the science of ethics-and fortunately, this material is abundant in literature and in life. Here, as in intellectual training, we must begin with sense and end with reason-must begin with experience and end with principle and law.

Ethical training must give the pupil increasingly a clear perception of the right in conduct, and it must increase the imperativeness of the sense of duty, and to these ends, ethical motives should be enforced by religious sanctions, and here, again, example will be found more effective than creed or dogma. The great law of right conduct is love to God and man. In the final exodus of the race the God and man. In the final exodus of the race the
Christian teacher will be our Moses.--Journal of Education.

## SUGGESTIONS.

Do not always present the same subject in the same way, nor have the same plan for removing difficulties. Avoid ruts.

Be more anxious to prevent wrong-doing than to punish the offender.

Protect your health and that of the pupils.
Carefully select the essential truths of a subject, and. in teaching them, hasten slowly.
Make clear to pupils what they are to learn, then, teach them how to learn it.
Let avery lesson have a point to it.
In order to have a pupil understand you, when teaching, put yourself in his place.-Ex.

Genius is an infinite capacity for work growing out of an infinite power of love. Take courage each and all who have any feeling. Powers spring from love. When you find that yon have something dear to you, which is dull and dry to others, but which you clasp close to yourself with joy and pearning; when you have a love of some seeming insignificant thing of creation and mind, and feel that life may be worth devoting to it, know there is within you the beginning of power. An acorn is planted in your breast. When your heart as a child has any vivid feeling of joy or sorrow, longing or disappointment, do not crush it ; master it, but do not crush it; master it, study it, endeavour to fuicken it into more life, always mastering the emotions produced by keen and impressible percoptions; cherish the impressible and keen capacity of feeling; it is an acorn planted in you; it is the beginning of power.-Thring.

## Tedehers' Miscellany.

## AN HOUR'S JOURNEY

Have you ever thought of the distance you travel while you are out on an hour's stroll? Possibly you walk three miles within the hour, but that does not by any means represent the distance you travel. The earth turns upon its axis-every twenty-four hours. In round figures we will call the earth's circumference 24,000 miles, so you must have traveled during your hour's stroll 1,000 miles in the axial turn of the earth.
But that is not all. The earth makes a journey around the sun every year, and a long but rapid trip it is. The distance of our planet from the sun we will put at $90,000,000$ miles, the radius of the earth's orbit-half the diameter of the circle, as we will call it. The whole diameter is therefore 184, 000,000 miles, and the circumference being the diameter multliplied by 3.1416 , is about 578,000 ,000.

This amazing distance the earth travels in its yearly journey, and dividing it by 365 we find the daily speed about $1,586,000$. Then, to get the distance you rode around the sun during your hour's walk, divide again by 24, and the result is about 66,000 miles. But even this is not the end of your hour's trip. The sun, with his entire brood of planets, is moving in space at the rate of $160,00 \mathrm{C}$,000 miles in a year. That is a little more than 438 , 000 miles a day, or 18,250 miles an hour.
So, adding your three miles of leg travel to the hour's axial movement of the earth, this to the earth's orbital journey and that again to the earth's excursion with the sun, you find you have traveled 85,253 miles.-School Review.

## GREAT SHIPS.

The fastest and biggest ships in the world present a wonderful study. At no time has such general interest been directed to the subject of marine superlatives in this countryas in the past year. The greatest ocean highway in existence is that across the Atlantic, between Great Britain and the city of New York, and the records in which the world are most interested are made along that highway.

The fastest passage between New York and Queenstown, both eastward and westward, was made in the latter part of 1891, by the steamship Teutonic of the White Star line. The fastest passage from Queenstown to New York was made in August, being five days, sixteen hours and thirty one minutes. The fastest time from New York to Queenstown was made in October, being five days, twenty-one hours and three minutes.

The first steam vessel to cross the Atlantic ocean was the Savannah, which crossed from Savannah, Ga., to Liverpool, in 1819 . The first vessels to reach New York from Great Britain were the Sirius and the Great Western. The Sirius, a ship of 700 tons, sailed from Cork, April 4, 1838, and the Great Western, 1,340 tons, left Bristol three days later. They arrived on April 23, the Sirius in the morning and the Great Western in the afternoon.

The greatest steam vessel ever built, in size, was the Great Eastern, which was 692 feet in length and 83 feet in breadth. The Teutonic is 582 feet in length.

The largest turret ship in the world, perhaps the largest battle ship in existence, is the British battle ship Hood, which was launched at Chatham, on July 30, 1891. The Hood has a displacement of 14,150 tons. The largest American war ship is the harbor defence vessel Miantonomoh. The finest war ship in the French navy is the Brenvus, which was launched early in October, 1891. Her displacement is 11,000 tons.-Goldthwaite's Geography Magazine.

Satisfactory results in language cannot be secured by the formal teaching of language as a separate branch of study. It is only when the teacher regards every recitation, every reading lesson and its interpretation, each step of instruction in arithmetic, geography and history, a language lesson, that the ultimate purpose of language teaching may be accomplished with certainty.-I. Freeman Hall.

## IMPORTANT

* to * TEACHERS:


## $\$ 100$ to $\$ 150$ in PRIZES.

With a view to the encouragement of the best teaching in the Public Schools, and the enrichment of the columns of The Educational Journal with practical articles by the ablest teachers, the publishers offer the following

PRIZES.
For the best model lesson or paper of the kind indicated in each of the seven classes of subjects enumerated below a prize of Ten Dollars will be given.

For the second best do., a prize of Five Dollars. subjects.
Where two or more subjects or topics are given, it is understood that the competitor may choose any one of them.

## 1.-ARITHMETIC. For Form 11 .

1. Application of the decimal system in addition and ubtraction.
2. Elementary Reduction.

II-GRAMMAR. Form II., III. or IV.
Lesson on (1) any ONE of the parts of speech, or (2) the classification of sentences, or (3) common mistakes in conversation.

## III.-GEOGRAPHY. Form II. or III.

On any one of the following subjects:
I. The points of the compass with ideas of location and distance.
2. The explanation and use of maps.
3. The formation of streams.

## IV.-LITERATURE. For 3rd and 4th Classes.

Any one of the following lessons
Third Reader- (1) The Harper, (2) Grandpapa, (3) The Miller of the Dee, (4) Robert of Lincoln, (5) The Children's Hour.
Fourth Reader-(6) Casabianca, (7) Burial of Sir John Moore, (8) The Road to the Trenches, (9) The Water Fowl, ( Io ) The Brook.
V.-COMPOSITION. Form III. or IV.

A language lesson in the form of a talk between teacher and pupils, intended to be followed by a written composition from the pupils.
Any one of the following subjects may he chosen: (1) A Rain (or Snow) Storm, (2) Our School House, (3) A Sleigh Ride, (4) The Autobiography of a Jack-Knife, (5) The Inspector's Visit.

## VI.-TEMPERANCE. Form II. or II.

Talk on Temperance, based on any topic dealt with in the authorized text-book.

## VII.-HISTORY Form III, or IV.

A Lesson on any ONE of the following subjects :
I. The Discoveries of Jacques Cartier.
2. The Founding of Upper Canada.
3. The Quebec Act.
4. The Rebellion of 1837 .
5. The Country and how it is Governed.
6. The Legislative Assembly and its Duties.
7. The Dominion Parliament and its Duties.
conditions.

1. All manuscripts submitted must be addressed Educational Journal, Prize Competition," and must be designated by a pen-name or motto, and accompanied with an envelope bearing the same name or motto, and containing the true name and address of the writer.
2. The successful manuscripts shall become the property of The Educational Journal The Journal shall also have the right to publish any of the unsuccessful manuscripts it may select, on condition of paying the writer according to its usual rates for accepted ayticles of that kind.
3. No manuscript or single lesson to contain more than 1,500 or less than $\mathrm{r}, \mathrm{oco}$ words.
4. All competitors must be teachers actually engaged at the time of competing as principal or teacher in some Public School in the Dominion of Canada. (The term "Public School" as here used does not include Gramithar or High Schools.)
5. Any such teacher may compete in any number of subjects, but in no case shall more than two prizes be awarded to one competitor.
6. All manuscripts must reach the office not later than December r 5, 1892 .
Two practicaleducators of high standing will be selected to act as examiners, and assign the prizes according to the foregoing conditions.


## The Grip Printing and Publishing Co.

 toronto, canada.T. G. WILSON.

Namagov.

> Ediforials.

## TORONTO, SEPTEMBER 15, 1892.

## LIBERAL EDUCATION FOR ALL.

$\mathrm{A}^{\mathrm{N} \text { American exchange urges the teacher }}$ to use his influence to induce as many of the pupils as possible to take a collegiate course. This is well. The teacher may by such use of his influence often render an inestimable service, not only to the individual youth, but to the community or nation, possibly to the world. Many a man who owed his first thoughts and impulses col-lege-ward to the actual suggestions or the unspoken influence of some teacher of his early days, has lived to turn his education to excellent account in the service of humanity.

But great as is the benefit which may be wrought by the judicious use of the teacher's influence in the way indicated, there is, it seens to us, a still more excellent way in which it may be made a blessing to society. We rejoice in the multiplication of colleges and universities, and are not greatly troubled with the fear that causes so much anxiety in some quarters, lest some of these may become " one-horse affairs," or fail to do the very, highest and most
thorough kind of educational work. We should like to see every institution of the kind raised to the highest possible standard of efficiency, but we have no sympathy with the view or feeling which seems to be that of many, that if a college or university, so-called, cannot attain to the very first rank at a bound, it had better not exist at all. The more colleges, the more students, and it must be a very inferior institution, indeed, which any young man or woinan of average ability can attend for three or four years without deriving great and lasting benefit, or without receiving influences and impulses which will change the whole life for the better. But at the very best the number of those who can give several years of their lives to a university course will continue to be but a small fraction of the whole number of those who are growing up to manhood and womanhood in the Public and High schools. The best possible service, in our estimation, which the enthusiastic teacher can render both to the seholars and to the world, is to inspire, as far as possible, every boy and girl with the true student spirit. In these days of cheap books, evening schools, university extensions and abounding educational opportunities and appliances of every kind, there is no reason why almost every boy and girl, who possesses moderate ability and has the advantage of the start which may be had in any good Public school, may not become a well-educated man or woman, even though he or she may never see the inside of a college or university. Nay, even at the risk of being accounted heretical, we will go farther. There is no good reason why any such young person may not attain, before emerging from the twenties, the full equivalent in almost every important respect of a full collegiate course. There is, we are persuaded, a great deal of loss of time and waste of energy in the best of our higher institutions of learning. All true culture is self-culture, but the kind of training that results from complete self-reliance is often more valuable for both disciplinary and practical purposes, than that which is gained through the instrumentality of schools and teachers. This is especially true of the will-power, which is the prime factor in all high achievement.
The results which we have in view may be best attained by setting every student at work and giving him an impulse along the line of reading and investigation which is most congenial to his peculiar tastes and abilities. The English language and literature are, as a matter of course, the media through which the effect is to be wrought. One supreme aim, we know nothing else a all comparable, should be to create in everry
young mind a taste for good reading. This point gained, the rest is comparatively easy. There is scarcely a branch of learning or research which may not be followed up with success, and at the same time with delight, derived through the gratification of this taste. Who of us does not know of one or more young men who, by dint of self-improvement in the way indicated, has raised himself to a position in which, in point of brain-power, literary taste, and general information, he is the peer of nine out of ten of those who have passed regularly through college to the B.A. degree ? What these have done thousands can do, if only once set on the right track. Is it not in this way that the era of universal education, which has long been the dream of poet and philanthropist, may be ushered in?

## ONTARIO TEACHERS AND THE QUEEN'S ENGLISH

FOLLOWING appropriately the English Department, will be found a noteworthy article which appeared in The Week of the 2nd inst. We make room for it because it seems to us that every teacher ought to read it. In so saying we do not mean to signify that we are ready to accept the facts which Mr. Turnock adduces, as a fair exhibition of what an average sixty of Ontario's second-class, first-class, and collegetrained teachers are able to accomplish in the way of preparing applications for a vacant position. We are unable to assign any special reason why the advertisement in question should have failed to draw forth applications from an average class of teachers of the grades indicated, but our acquaintance with the written productions of Ontario teachers of these grades suffices to make us sure that there must have been some ieason. Our own observations would lead us to expect, under circumstances similar to those described, a considerable number, far too large a number, of documents marred by glaring faults of the various kinds described, but it would lead us also to expect confidently a large percent-age-nearer fifty than ten-of applications unobjectionable in form and style, and a few bearing internal evidence of superior culture and ability.

Nevertheless, we commend Mr Turnock's well-written letter to the attention of our readers. It abounds with hints which even the most careful and precise may find useful. All will agree with us that no one should receive even a third-class license who is capable of such mistakes, solecisms, and violations of good taste as those described. The article will serve an excellent purpose if it directs attention to the impor-
tance of certain matters, which may possibly appear to some of our readers too trifling or conventional to be worthy of serious regard. Too many of our trustees are, unfortunately, in the least degree likely to be critical in regard to such matters, but those of them who possess literary culture will almost certainly refuse to look a second time at an application which bears on its face evidence that the writer either does not know how to express himself in correct form and style, or has too little respect for himself and those whom he is addressing to take the trouble to do so. This is, however, appealing to too sordid a motive. The fact is that the teacher should be, and the public have a right to expect him or her to be, a man or woman of at least so much education and culture that neatness and good taste, as well as correct forms of expression and a certain easy style in writing, have become habitual.

Turning for a moment to some of the particular faults specified, we find bad writing, i.e., penmanship, among the first. The large, clumsy characters and the prim, copy-book hand are easily explained in the case of the public school teachers. They are the result, of course, of the necessity for using a large, legible hand in the teaching of this art. This does not account for the flourishes, which are an abomination, wherever found. From the prevalence of stiffness in the writing of teachers we suspect that they do not use the pen out of school half so much as they should. Nothing but much practice can give the characteristics for which Mr. Turnock was evidently looking. But, as we had occasion to say in last number, the pen is the most valuable implement in self-culture. Every young teacher should make it a matter of conscience to use the pen for a half-hour or hour every day, in putting on paper some of his or her own thoughts, fancies, or observations.

Spelling is the bête noire of the student of English. But, none the lesss, bad spelling is unpardonable in any one making pretensions to education, and above all in the teacher. The exercise just mentioned, if conscientiously followed up, will be found the very best weans of correcting any weakness in this direction. But it must not be forgotten that there are fashions in spelling English and that these fashions are gradually but constantly changing. We note, for example, that our critic adduces medalist as an instance of misspelling which was evidently shocking to him. Yet so excellent an authority as the Coucise Imperial Dicticnary gives this as analternative form, and certainly it would puzzle any one to
give a good reason-and reason is happily coming to have a little to do with modern modifications of English spelling - for doubling the $l$ in that word. Seeing that the applicant was not necessarily wrong in this case, one is disposed to wonder whether other of the cases referred to but not specified may not belong to the same category. Certainly we shall not undertake to defend Reginna.
" Time is up," or rather space is exhausted. The subject is a fruitful and profitable one, and we may, perhaps, return to it and note some other points indicated, in a future number. Meanwhile it is but just to observe that the teachers concerned in this case, whatever their merits or defects, are the products of the past rather than the present schools. The Week, commenting in a subsequent number on Mr. Turnock's communication, says truly, and it might have put the fact still more strongly :
" Notwithstanding these facts, we are glad to believe that a marked improvement is taking place in the quality of teachers and teaching in Ontario. In one respect. at least, the standard of preparation and qualification has been very materially advanced within the last few years. The reading of English literature has been given a much more prominent place than hitherto. This is a change which cannot fail to have a most salutary effect, not only upon the students in training, but upon the teachers who have to oversee this reading. But there is room for still further improvement in this direction. The goal should be a state of things in which the pupil, from the day he enters the primary department until the very end of his school career, be that in high school or college, shall be brought into acquaintance with good literature so continuously and under such conditions in respect to its intelligent study, that he or she can hardly fail to become possessed of come genuine taste for it, even before the third-class-teacher stage is reached. Need we doubt that this is quite possible of attainment, under right conditions and influences?"

Have you a teacher friend who does not take the Educational Journal? Kindly give us his or her address, that we may mail a sample copy. The model lesson on the Infinitive, in this number, is worth to the young teacher of Grammar, much more than the price of a year's subscription.

We reprint in this number, the first part of an admirable article on, "The Ideal Lesson," by an American writer. It contains many good points and will repay careful reading.

## Sehool-Room Methods.

## A PRACTICAL SPELLING LESSON.

Lay aside for a day the spelling-book, and try an exercise like the following
Let the pupils take their slates and write their own names in full.
Write the teacher's surname.
Write the name of the county in which they live, the Province, their post-office address.
Tell where Scotchmen came from.
Tell how old a boy is who was born in 1879.
Write the names of four winter amusements; of four summer amusements.

Write how many days in this month.
Write what we plant to get potatoes.
Write a definition of druggist.
Write the names of six pieces of furniture.
Write the names of six kinds of tools.
Write the names of the seven days.
Write the name of the year, month and day of the month.
Write a verse of poetry and a verse of Scripture from memory.-American Journal of Education.

## ONE WAY OF TEACHING GRAMMAR.

## miss ida m. gandner.

Topic: Object of thought.
Definition: An object of thought is anything of which we may think.
Method: Think of the clock, the door, the window. Mention other things of which we may think. Write their names on the board. Mention some actions of which we may think; as running, speaking, ete. Write their names on the board, think of love, hate, goodness, wisdom. What do we call the houses, lands, etc., belonging to a man.

Answer: His property.
We also call a man's goodness, justice, etc., his property or attributes. Mention some other attributes of a person. Write their names upon the board. Anything of which we may think is an object of thought.

Define. Preserve the lists you have written for the next topic.

Topic: Noun.
Definition: A noun is the name of an objent of thought.

Method: Read what you have just written on the board. What are all these words?

Answer: The names of objects of thought.
The name of an object of thought is a noun. Define.

EXERCISE 1.
Tell whether each of the following is a noun or an object of thought. Why ?
The cat. The word "cat." The dog. The word "dog." The boy. The word "boy," etc.
The object of this exercise is to give the child a distinct idea of the difference between a noun and an object of thought. A nown is always a word. An ubject of thought is never a word, except when it is a word of which we are thinking. For example : Think of the word "John." Now what beconies the object of our thought?

Answer.-A word.

## exercise II.

Write ten sentences each containing at least two nouns.
Underline the nouns Exchange slates and correct.
exerclse in.
Select the nouns in the following extract from the writings of Edward Everett:
"It was a mild, serene, midsurnmer's night ; the skv was without a cloud; the winds were quiet; the Pleiades, just above the horizon, shed their sweet influence in the east. At length the timid approach of twilight became more perceptible; the intense blue of the sky began to soften ; the smaller stars, like little children, went first to rest. Hands of angels, hidden from mortal eyes, shifted the scenery of the heavens; the glories of night dissolved into the glories of dawn."-Sunrise.

## questions on exercise mí.

When is midsummer? What are the Pleiades? How many are there? Can you find them in the
heavens on a starry night? (If not, tell the children in what part of the heavens to look for them, and at what time.) Why should Tennyson, speaking of the Pleiades, say they
"Glitter like a swarm of fireflies
Tangled in a silver braid."
What is the horizon? What do we mean by twilight ? Does it occur at night or in the morning? What does "perceptible" mean? Why does the author say the smaller stars went " to rest ?" How many of the children go to rest before the older members of the family? Why should children retire early? The meaning of "mortal eyes?" "dissolved?" "dawn?" Is the author living? If not, where did he live? For what is he noted? How many would like to read something else by the same author ? Look in your Readers, and perhaps you will find other selections from Everett's writings.
(This clue followed out may lead to a life-long interest in such writings.)

## exercise iv.

Select all the nouns in your reading-lesson for the day. Count them, and observe that a large part of the words on a page are nouns.

Topic: Pronoun.
Defintion: A pronoun is a word used in place of

## a noun.

Method: First illustrate the need of such words.
Whose hat is this?
An.--John's.
Whose hand is this?
Ans.-Yours.
Who teaches John?
Ans. - You do.
Then whose teacher am I?
Ans.-.John's teacher.
Whose head is this?
Ans.-John's head.
What has John's teacher done with John's hat ?
Ans.- She has put it on John's head.
I will write on the board what John's teacher has done. Thus: John's teacher took John's hat in John's teacher's hand and put John's hat on John's head.
Would you tell me what I have done, in the same way? No? Then you may cross out any word you would change, and write another in its place. Now read.
Answer.-John's teacher took John's hat in her hand, and put it on his head.
What kind of words are all these crossed out?
Answer.-Nouns.
Then the new words are used in place of what words !
Answer.-A word used in place of a noun is a pronoun. Define.

ExERCISE 1 .
Select the pronouns in the following sentences :-

1. I was once a barefoot boy.
2. Be thou a hero.
3. These are my jewels.
4. How dismal you look!
5. Every sin brings its punishment with it.
6. Leaves have their time to fall.
7. I am afraid to do a mean thing.
8. Our influence has no nights and keeps no Sabbath.
9. Nothing is impossible to him who wills.
10. Blessed is the man who has found his work.
11. If you bring a smiling visage to the glass, you meet a smile.
12. We do not seek God; God seeks us.
13. He giveth His beloved sleep.

14 Drive thy business; let not thy business drive thee.
15. What no one with me shares seems scarce my own.
16. Earth, with her thousand voices, praises God.
17. They ne'er pardon who have done the wrong.
18. For his gayer hours she has a voice of gladness.

EXerdise II.
Select pronouns from the reading-lesson. exercise iil.
Count all the nouns and all the pronouns on one page of your Readers. Count the remaining words.
-New England Journal of Education.

## SCIENCE IN PRIMARY GRADES.

## by abbie l. shepard.

Notr.-The teacher will find some good book on science a great help in giving these lessons. Read from it, then explain and ask questions. The children should write their answers upon the board. They can copy these lessons on paper and so have a little science book of their own.

## THE EARTH.

Jack's ball lay on the ground. A fly was on the ball. Here, Jack, called Uncle Harry, I want you to see yourself. "What do you mean?" laughed Jack. Do you see the fly on the ball? "Yes, sir." Well, tell me how much of the ball the fly can see? "Just a little part of it, sir ?"

If the fy should start and walk around that ball in a straight line, where would he be when he came back again? "He would stop just where he is now, I think."
You are right. Now, I will tell you how the fly is like yourself. You live on a ball, which is much larger than this. It is so large that you can see only a little, a very little part of it at one time. If you were to start from here and travel in a straight line for many, many days and nights, you would come back to this place again. Do you know the name of this large ball on which we live? "It is called the earth."

Can you tell me anything more about this ball? "It is very beautiful in many places. The grass, flowers, trees and water make ic so. Many people live on the earth. They are not all alike. We read the other day of the Seven Little Sisters. One of the sisters was brown, one was white, one was yellow and another black."
You remember nicely, Jack, teH me, if you know, whether all parts of the earth are alike. "O, no indeed, the part where the Esquimaux live is very cold. It is so cold that scarcely anything grows there. The sun does not shine there for nearly six months, and when it does shise it is daylight for six months. Where we are, there is winter, spring, summer and fall; while where the brown baby lives it is summer all the time, and so warm that she does not wear anything but a necklace."
Now, Jack, it is my turn to talk. Let me take your ball, please. I am going to put a pin in the place where the fly was. We will play that this ball is our earth and that the pin is Jack. You may light this piece of candle and hold it so. The candle is the sun. I am going to turn the ball slowly. See the sun is shining on you now, and you are saying it is daylight.
"Now tell me if the sun is shining upon you? "No, sir, you have turned the ball around so that the pin is away from the light." Remember the pin stands for you, and the light for the sun. Can jou see the sun now? "No, sir, it is quite dark. Must I go to bed ?" laughed Jack.
And now you see as I keep turning the ball that you come into the light again. This is what the earth really does, Jack. It keeps turning around very slowly all the time,-so slowly that we do not know it. "And is that what makes the day and the night, Uncle Harry? I thought the sun was always moving."
No, my boy, the old sun does not move around us but we move around the sun. This makes our winter and summer, our spring and fall. When you are older you will learn more about it.-Ex.

## TALKS WITH TEACHERS

Shall teachers sit while teaching? There is some difference of opinions about this. Some teachers make it a boast that they never sit down in school hours, and some trustees evince decided objection to any want of activity on the part of their teachers. It is by no means certain that the nervous, ever bustling teacher dues the most effective work; on the contrary there is danger of a want of concentration of thought and steady attention on the part of the pupils. The teacher who can command the attention and directs the energies of the pupils from the table has infinite advantage over one who finds it necessary to continually hover around them. A judicious admixture of standing and sitting, according to the nature of the work being done, is per-
haps the best plan, but the low voiced direct teacher haps the best plan, but the low voiced, direct teacher, in her seat, is preferable to the loud voiced nervous teacher, towering over her pupils.-Educa-

## hints dnd helps. 粦

## HINTS FOR TEACHING GEOGRAPHY.

In the study of some of the rivers, history will prove an important help. It is not enough to know where a river rises and that it flows in a southerly and then southeasterly direction, continues in a southwesterly course and so on until it empties into such and such a body of water. In studying about the Mississippi river, for instance, much would be gained by the scholar's learning of the fearful suffering caused by the river's everflowing its banks. Explain the cause of the delta and the meaning of the word. Let the class learn something of the battles that have taken place on or near the banks of the river. If the important cities along the river have already been studied, review them and fix them in the pupil's mind in connection with the river. We have, in America, a great field for this work. Very many of our rivers have interesting facts connected with them, as the coming of the early settlers, or the founding of the towns, or the battles fought in their vicinity, or other interesting historical facts.- Wisconsin Journal of Education.

## BUSY WORK IN NUMBER.

This from the Primary School for the primary teacher :

1. How many pupils in the school room? If there were ten more how many would there be? If there were eight less?
2. How many panes of glass in one window? How many in all the windows?
3. Write the name of the month. How many says in the month? How many in next month?
4. How many hours in a day? In two days?
5. Draw five lines across the slate, and draw five more lines across them. How many blocks on your date?
6. How many children in the row you sit in ? How many feet have you all? How many fingers? How many noses ?
7. There are seven bones in each of your fingers, and two in your thumb. How many bones have you in one hand? In both hands?
8. Draw a clock on your slates. How many numbers on its face? In how many ways can you write the numbers? Make the hands say four o'clock. Make them say noon. Midnight. Six o'clock.
9. How many meals do you eat in one day? How many in three days? How many in a week?
10. How many Sundays in this month? How many days, not counting the Sundays? How many school days?
11. How old are you? How old will you be in 1899? In 1893 ?
12. How many eggs in a dozen? In three dozen? What is the difference between two dozen and a half-dozen?-The Southern Educator.

## THAT MISCHIEVOUS BOY.

There he sits, one or two seats from the front, just far enough to get out of sight behind the boy in front of him. He would have been given a front seat, but there were not enough to go around, and his bright face didn't look so suggestive of evil as did those placed in front. After the term began you found that he was the plague of your predecessor's life, and he bids fair to bring your tresses in sorrow to Don't be too stern and overbearing with him at once, and do not try to make an angel of him in ten weeks. The laws of evolution work moreslowly than that

Don't get discouraged. Get acquainted with him at once. Show him that you enjoy anything worth laughing at. Make his lesson as attractive as you can. Rouse his ambition. When he works comunend him for his results. Visit him in his home. Take along some games that boys enjoy, and play with him. If he has a collection of birds' eggs, bugs, stamps, or Indian relics, look them over attentively and tell him all you know about them. He will enjoy it. If you know nothing about them get him to tell you what he knows. He will enjoy that more. Do everything you can to inter-
est him in yourself and any subject in which boys take delight, and you have won him. The chances are that at the end of the term he will be near the head of his class, and one of the workers, and, withal, a little mischievous. - The American Teacher.

## SOME QUESTIONS FOR EACH TEACHER TO THINK ABOUT.

## by e . f . brownson.

1. Is your school-yard as neat and well kept as it can be?
2. What have you done to make your schoolroom neat and attractive?
3. Have you a clock in your school-room placed where all the pupils can see it?
4. Does this clock keep accurate time?
5. Are your pupils taught that their school-room clock is to be relied upon, neither too fast nor ton slow ?
6. Have you a programme written neatly and plainly, where each child can read it?
7. Do you try to hear your classes according to the programme, and do your pupils use it as aguide when learning their lessons?
8. Have you a waste-paper basket?
9. Do you require each pupil to keep all bits of paper picked up around his desk ?
10. What method do you use to encourage pupils to keep their desks in perfect order?
11. Do you keep your own desk neat and in order ?
12. Are there door mats in front of each door and do your pupils use them !
13. What is the condition of your blackboards? Are they well cleaned every day, and nothing but regular work allowed upon them?
14. What have you done to encourage yuur pupils to have clean hands, clean faces, well-brushed teeth and smooth hair?
15. Are your pupils supplied with a basin, a clean towel, soap, a comb and a mirror?
16. Have you a low-toned call-bell for your classes?
17. What are your pupils reading?
18. What are you doing to help to cultivate in them a love for good books?-Teachers' World.

## GOT.

Ir is amusing to see how some writers will jump at conclusions. The following quotation is clipped from a newspaper in which the writer illustrates the danger into which so many fall who comprehend a whole truth only partly. The writer says :
"That word of three letters, 'got,' has been most appropriately called the 'conventional drudge' of the English language, and in many instances its services could readily be dispensed with. 'Have you got' is a most inelegant and inharmonious form of expression. ', Have you' answers every purpose equally as well."

There is truth in the quotation, but not the whole truth. Got is a very greatly abused and a much misused word, but it cannot always be omitted.
The statement, "have you," may take its place only where possession is meant to be implied, Thus the correct form is "Have you a knife?" That is, do you possess one? Have you gota knife? meaning possession, is of course incorrect.
Where "get" is used in the present tense have got or have gotten may be used in the present perfect with strict propriety. Thus, have you got (or gotten) your lesson; Have you got (or gotten) the doll for me; Have you got (or gotten) the book you expected to buy?
These and many similar sentences serve to show the use of got in the sense of acquire. Gotten in the sentences given may to many ears seem preferable on the ground of euphony, but it has no advantage over got in correctness. The proper place then where "have got" may be used, is in the sense of have acquired. Where possession alone is to be implied, the word got should be omitted, as in the sentences, Have you a dollar? Have you an umbrella? Have you a home?
The following sentences from reputable authors illustrate the proper use of the word:
" Didst thou never hear
That things ill got had ever bad success?"
"Isocrates was in the right to insinuate, in his elegant Greek expression, that what is got over the devil's back is spent, etc."-LeSage.
Possibly we could do without the use of got in the English language, but a more desirable thing is to know how to use the word correctly.-A. N. R. in Educational News.

## RECITATIONS.

The most important consideration at the beginning of a recitation is to get the good will and attention of the class.

Require the pupils to go to and from the recitation seat quietly.
Announce questions first and call on the pupils second.
Do not have a stereotyped form of asking questions or hearing the class, but present the work in the greatest possible variety of forms.
Devote a portion of the allotted time for each recitation to reviewing the last lesson.
Require pupils to stand while reciting
Require pupils to repeat the question in the answer.
Correct disorderly conduct by dismissing from the class (for the one recitation).
Do not tolerate whispering or any other communication in class.
Require answers in clear grammatical languaye and allow criticism and friendly discussion. In your explanations use only the simplest language and be sure that you are understood before leaving the subject. Allow pupils to ask questions and give opinions. - Normal Instructor.

## For Friday Z̨plerıoon.

"LONG AGO."
Grandma told me all about it ;
Told me so I couldn't doubt it,
How she danced - my grandina danced Long ago.
How she held her pretty head,
How her dainty skirt she spread,
How she turned her little toes
Smiling little human rose! Long ago.

Grandma's hair was bright and sunny,
Dimpled cheek, too-ah, how funny!
Really, quite a pretty girl, Long ago.
Bless her! Why, she wears a cap,
Grandma does, and takes a nap
Every single day; and yet
Grandma danced a minuet,
Long ago.
Tow she sits there rocking, rocking, . ways knitting grandpa's stocking
(Every girl was taught to knit Long ago) ;
Yet her figure is so neat,
I can almost see her now
Bending to her partner's bow Long ago.

Grandma says our modern jumping,
Hopping, rushing, whirling, bumping,
Would have shocked the gentlefolk Long ago.
No-they moved with stately grace,
Everything in proper place;
Gliding slowly forward, then
Slowly curtesying back again,

## Long ago.

Modern ways are quite alarming,
Mrandma says ; but boys were charming -
Girls and boys, I mean, of course-
Long ago.
Bravely modest, grandly shy-
What if all of us should try
Just to feel like those who met
In their graceful minuet,
Long ago?
Some, by admiring other men's virtues, bec me pnemies to their own vices.-Btas, B.C. 600 .

# Enģlish. 

Elired by Fred H. Sykes, M.A., Educational Jourval, Toronto, to whom communications respecting this department should be addressed.

## A LESSON IN GRAMMAR.

taE infinitive.
(i.) The Present Infinitive Active. (ii.) The Perfect Iufiuitive Active. (iii.) The Present Infinitive Passi e. (iv.) The Perfect Iufinitive Parsive.

1. The teacher ( $\mathrm{l}^{\prime}$.) has placed on the blackboard the following sentences, underlining the italicized words:
a. (1.) I study the lesson.
(2.) Thuu stuliest the lesson.
(i.) He studits the lessun.
(4.) We study the lesson.

He asks the pupils to compare the forms of the verb with those in the following arrangement :
(a) I studies the lesson.
(b) Thou study the lesson.
(c) Hestudy the lesson.
(i) We studiest the lesson.

He then calls upon some one or other of the pupils ( $P$ :) to pronounce upon the correctness of (1) or (a) ; (2) or (b) ; (3) or (c) ; (4) or (d), etc. The class tinally decide that people donot say "I studies," "we scudies." T. Then we cannot use the forms "study." "studies," "studiest," etc, as we like "study,""studies," "itudiest," etc, as we like ment heginning "I," we must say, "I study the lebson." If it begius " he," we say, "He studies," etc. T. Then if I change the pronnun, the verb must change also? P. Certainly. The form of the verb is decided by the pronoun we use. T. So that we might say the furm of the verb is limited, might we ? P. Yes. T. In what way is it limited? $P$. By the subject of the sentence, whether it is first pers in (I), second person (thou), third person (he). T. Dun't $y$ (ul see another limitation ? [ $P$. hesitates. T. ocrites on the board:]

## The man studies.

The meu study.
P. It changes, if the subject is one or more than one. T. That is, it changes fur- P. For singular and plural. T. Or, in short for-P. P. Fur uumber. T. Then in what ways is the verb in these sentences limited. P. It is limited by the person and number of the subject.
2. T. The Latios had a word finis, that meant a limit or boundary. Do you know of the word in English ? P. I have seen "finis" at the end of a buck. T. Very good. What did it mean there? $P$. It indicated that the book was euded. It marked the linit of the book. T. Do you know the word in any derivatives? $P$. In "infinite." Tr. What does "intinite" mean in "infinite space?" P. A space without end or limit-unbounded space. A. What would you call a space that had limits? P. A finite space. T. "Finite"' means then? P. Having limits. T. "Infinite?" P. Not having limits -unlimited.
3. T. Nuw to go back to our verb. You said that the verbs in the sentences before us are limite ${ }^{d}$ as to their form by the number and person of the suhject. Ouuld you call them therefore, "infinite" verbs? P. Nu, they are finite verbs, for they are buund to have certain forms. T. Very goud. I wish you to remember that in grammar we use this term Finite Vemb [T. ucrites the word in large letters on the blackboard], exactly as you have used it.
4. Prove now to the class that the verbs in the following sentences are tinite :
(1) I am the man.
(2) Thou art the man.
(3) Ho is the man.
(4) We are the men.
[When this is done, T. continues.] Please tell what a finite verb is. $P$. A finite verb is a verb limited as to its form, by the persun and number of the subject.
5. [T. turns to the following sentences which he $h$ us orittell in another column :]
(1) I an to study the lesson.
(2) Thou art to stcily the lesson.
(3) He is to study the lesson.
(4) We are to study the lesson.
T. What do you notice about the form of "study," in these sentences. P. It always has the form "study." T. Show that it does not change with the person of the subject.
P. We say I am $\{$ thou art $\{$ study.
T. Is it affected by the number of the aubject? $P$.

No, for we say I am $\{$ to study.
T. Is "study" in these sentences limited or unlimited ? P. It is uulimited. T. What do you say about "am," "art," etc.? P. They are limited-finite-verbs.
6. T. Pick out of the following underlined words those that are finite and those that are unlimited. [T. writes on the board, underlining the italicized words:]
(1) Johu walks to town.
(2) He wishes to walk to town.
(3) He qnes away.
(4) I will not go.
(5) John cannut go.
(i) I wish him to go.
(7) To read is to learn.
(8) To read and to atudy are to learn.
(9) He lives to learn.
(10) They learn to live.
7. T. We spoke of the verb when limited as-l? P. A finite verb. T. And the opposite of "tuite," is ? P. "infinite." T. What might we call the unlimited form theu? P. The Infinite Vecb. T. Quite true. But in grammar we say, not the infinite verb, but the Infinitive Verb, or for short, The Infinitive. [T. writes the uord in large letters on the blackboard.] T. What is the Infinitive? P. The verb not limited by person or number.
8. T. Are you sure the Intinitive is a verb ? How did we define the verb in our earlier lessons? $P$. A verb is a word that asserts. P. Then when we say

## "He tries to learn,"

do we assert that he learns? P. We assert that be tries, but we do not sny he learns. T. Then why do you call 'learn' a verb? P. [after long hesitativn and several ineffectual attempts to answer] 1 don't think it is a verb. It looks like a noun-we could say, "He tries learning." T. Well you can tell me more of that by-and-by. Don't you see some connection with the true verb? P. It is the form we start out from-from learn-we get the finite forms-learns, learnest. T. Very good-for the present. Do you see any other relationship? [writes].

## John learns.

## John tries to learn.

P. They both mean the same, but "to learn" merely expresses the action, and "learns" expresses and cesserts it of John. T. Very good. Then if We speak of the Infinitive of the verb, we mean-? $P$. The simplest form of the verb, not limited by the person and number of the subject, and expressing the bare verbal idea.
9. T. You said a moment ago that "to learn" looked like a noun because we could say

He tries to learn,
or, He tries learning.
Do you still hold to that. P. Yes. He tries something, and the name of that something must be a nocn. T. That is true logically. But isn't there a difference in the use of the infinitive? Can we say-My learn? His to learn $\boldsymbol{i}$ as we say-my learning, his learning, or their books? P. No, we cannot use the infinitive as we use ordinary nouns. Still it has the force of a noun. T. Very good. Now, sum up the characteristics of the infinitive. $\mathbf{P}$. (i) It is a limited word, not changing because of the person or number of the subject. (ii) It is the simplest form of the verb, expressing the verb al idea. (iii) It does not assert. (iv) It is a noun in furce but not in construction.
10. T. We found the Infinitive does not change for person or number. Let us see if it changes from any other cause. Please compare.

## To learn that is easy.

To have learn that is praiseworthy:
Is "to have learnt" an infinitive? [ $P$. hesitates.
. places on the board:

I ought to learn.
Thou oughtst to learn.
I ought to have learnt. Thou oughtst to have learnt.

## He ought to learn.

He ought to have learnt.
P. "To have learnt" is an infinitive, for it has exactly the function of " to learn." T. Very good. When we dealt with the tenses of the verb, what diffurence did we see between

## I learn

and, I have learnt?
P. "I learnt" is the present tense and "I have learnt" is the perfect tense of "learnt." T. And why "perfect"? P. Because the le rruing is over and completed in "I have learnt." Then in "to leurn that" and "to have leurnt that.' is there a similar difference? P. Yes, T. How shall we distinguish these infinitives by name? $P$. Call "to learn' the Pbesent Infinitive, and "to have learnt" the Perfect Infinitive. [T. worites these names in large letters on the board.] T. Then the Infinitive may change. $P$. Yes, for tense.
11. T. What is "have" in "to have learnt? [P. hesitates. T. vorites:
I lave to go. I am to have it.
Thou hast to go. Thou art to have it.
He has $t$, go. He is to have it.]
P. It is the present infinitive of the rerb "have.' T. What is "learnt?" P. [remembers the an"lysis of "I learn" and "I have learnt" in earlier lessons]. It is the past participle. T. Then the perfect infinitive of learn is made up by-? P. By adding the past participle to the present infiuitive of "have." T. Does that hold with other verbs? [Tries "sing," "write," "go," etc.]. P. Yes, it holds with all verbs.
12. T. Arrange the verbs of the following sentences in three columns, headed

$\left.$| Finite Verbs. |
| :---: | :---: | :---: | \(\begin{gathered}Infintives. <br>

Present Infinitives.\end{gathered} \right\rvert\, $$
\begin{gathered}\text { Perfect In- } \\
\text { finitives. }\end{gathered}
$$\)
John wanted much to go to read, but as Mary had gone to bed, there was no one to help him. He was not discouraged however, but took his book and sat down in a warm corner by the fire. It was hard to see the words in the flickering light. Little by little, the warinth of the tire stole over him and made him feel very sleepry. He conld not have read five pages before the book slipped from his hauds and fell to the ground. A few minutes after, his mother came into the kitchen to find him, and there he was, sound asleep, and the book that he wanted to read at his feet. "Johnnie," said his mother, " you must wake up and go to bed. Yıu ought to have gone when Mrry dif. You will be late for school to-morrow, if you don't go to bed in good time."
13. T. I want you now to compare :
\{ I like to see.
$\{1$ like to be seen.
\{ I cannot see.
I cannot be seen.
May we call " (to) be seen" an infinitive? P P Yes, for it has the same construction as "see." and "to have learnt" and "learn." T. Quite right. It is an infinitive. But what difference is there between "to see" and "to be seen." [P. Hesitates.] T. Is it the same as in "to see" and "to haveseen 9 " P . No. [T. writes on the board.]

I see John
I saw John
I am seen by John
I was seen by John.]
P. [remembering a lesson on the passive voice.] It is the difference between the active and the passive voice. T. Then "to learn" may be changed fur the sake of voice. P. Yes, "to see" is the active voice and " to be seen" is passive voice. T. Then we have one Intinitive $\rightarrow$ P. Active and another infinitive passive. [ $T$. writes in large letters. Active Infinitive and Passive Infinitive.]
14. T. Distinguish the active from the passive infinitives in the following
(1) I have to do that.
(2) That must be done.
(3) He cannot have seen us.
(4) He cannot see us.
(5) He canuot be seen.
(6) Juhn cannot have spoken
(7) John cannot be spoken to.
(8) They will not see us, for they wish to see you,
15. How is the Passive Infinitive made up in "to see," and "to be seen?" P. It is made up of the simple infinitive " be " and the past participle. Dues that hold of all passive infinitives [tries " to strike," "to sing," etc.] P. Yes.
16. T. Now I have one more comparison for you to make. Look at these sentences
$\{$ John ought to be seen.
\{John ought to have been seen.
$\{$ They cannot be seen.
They cannot have been seen.
Is " (to) have been seen" an infinitive? P. It has the same construction as "to be seen," which we call an infinitive. T. You are right. It is an infinitive. T. Is it an active or passive infinitive. P. It is passive. T. What difference in meaning is there between "to be seen" and "to have been seen." P. The latter denotes the completed action. T. And therefore should be called -? P. The Perfect Infinitive. 'T. As distinct from-m? P. The PresentInfinitive. T. Then we have what passiveinfinitives? [Writes on the board as P. answers.] P. (i.) The Present Infinitive Passive, and (ii.) The Perfect Infinitive Passive. T. In the Active Voice we had--? P . The Present Infinitive Active and the Perfect Infinitive Active. T. So that making a table, and using the verb "see" as an example, we have-? $\dagger$ Writes on the board.] P .

The Present Infinitive Active: (to) see.
The Perfect Infinitive Active: (to) have seen.
The Present Infinitive Passive: (to) be seen.
The Perfect Infinitive Passive: (to) have been seen.
17. Now pick out the infinitives in the following sentences. Arrange them correctly in four columns headed :

| Actire Infinitives. | Passive Infinitives. |
| :--- | :--- |

(1) We have nothing to do with him.
(2) He has perhaps not to do that.
(3) You cannot be sure he has done it.
(4) I do not know how it is to be done.
(5) What we read to remember is helpful to us.
(6) He goes to school to learn what is to belearnt there.
(7) It is better to love than to hate.
(8) I was to have seen him before you had ar rived.
(9) There is little that can be done, but what is to be dune let us do.
(10) It is quite true to say that it has become an honor not to be crowned.
(11) My friend cannot be seen. Help me to find him.
(12) " Noble King of England, we now part, never to meet again. That your league is dissolved, no more to be reunited, and that your native forces are far too few to enable you to prosecute your enterprise, is as well known to me as to yourself. I may not yield you up that Jerusalem which you so much desire to huld. It is to us as to you, a Holy city. But whatever other terms Richard demands of Saladin, shall be as willingly yielded as yonder fountain yields its waters. Ay, and the same should be as frankly afforded by Suladin, if Richard stood in the desert with but two archers in his train."
[Further development of the Lesson will be given subsequently].

Men resemble the gods in nothing so much as in doing good to their fellow creatures.-Cicero.
President Daniel C. Gilman of the Johns Hopkins University, contributed an article to the $E d u$ cational Review for February, in defense of "liberal" education as against the intensely "practical." He names five intellectual powers which the liberallyeducated man should possess: 1. Concentration, ability to hold the mind exclusively and persistently to the subject under attention. 2. Distribution, or power to arrange and classify the knowledge aequired. 3. Retention. 4. Expression. 5. The power of judging, or of making "sharp diserimination between that which is true and that which is false, that which is grod and that which is bad; that which is temporary and that which is perpetual, that which is essential and that which is accidental."

# Fixarnindłion Papers. 

## EDUCATION DEPARTMENT, ONTARIOANNUAL EXAMINATIONS, 1892.

THE HIGH SCHOOL JUNIOR LEAVING AND UNIVERSITY PASS MATRICULATION.

## CHEMISTRY.

## Examiners: $\left\{\begin{array}{l}\text { G. Chambers, B.A., M. } \\ \text { J. J. Mackenzie, B. A. }\end{array}\right.$ <br> (A. C. McKay, B.A.

1. (a) When 80 c.c. of Hydrogen and 20 c.c. of Oxygen are exploded in an eudiometer, what are the volume and the composition of the resulting gas? If Carbon Monoxide were substituted for Hydrogen, what would be the volume and the composition of the resulting gas?
(b) Give reasons from the foregoing experiments for considering the molecule of Oxygen as consisting of more than one atom.
2. (a) Give the equation representing the reaction which occurs in the preparation of Chlorine from Manganese Dioxide and Hydrochloric Acid.
(b) What weight of Chlorine can be prepared from 43.5 grammes of Marganese Dioxide ( $\mathbf{M n}=$ 55). What would be the volume of the Chlorine at $6^{\circ} \mathrm{C}$ and $720^{\mathrm{mm}}$. Bar.?
(c) Write equations explaining the reactions when Chlorine is passed into
(i) dry Ammonia,
(ii) solution of Potassium Iodide,
(iii) solution of Hydrogen Sulphide,
(iv) hot solution of Potassium Hydrate.
3. State all the facts represented by the formula $\mathrm{HNO}_{3}$. In what respects does the properties of Hydric Nitrate differ from Potassium Nitrate and Potassium Hydrate?
(b) Explain what occurs when Nitric Acid is neutralized by Ammonium Hydrate, evaporated to dryness, and the residue heated.
(c) How many grammes of Nitric Acid containing 72 per cent. of $\mathrm{HNO}_{3}$ will neutralize 56 grammes of Ammonium Hydrate containing 25 per cent. of $\mathrm{NH}_{3}$ ?
4. (a) Describe the successive changes which occur when Sulphur is heated in a test tube.
(b) State the effect of Carbon Bisulphide upon each of the forms of Sulphur?
(c) What is the action of Hydrogen Sulphide upon Sulphur Dioxide?
5. How would you prove the presence of
(a) Hydrogen and Sulphur in Hydrogen Sulphide,
(b) Carbon in Carbon Dioxide,
(c) Nitrogen in Ammonia.
6. Give one illustration in each case showing the relations of Electricity, Heat, and Light, as a cause, and an effect of chemical action.
7. Describe, giving equations, what occurs in each of the following experiments :
(a) Phosphorus is burnt in a cylinder of Oxygen and the product shaken up with water.
(b) Copper wire and strong Sulphuric Acid are heated trgether in a flask and the gaseous product passed into a solution of Iodine.
(a) Hydrochloric Acid is added to pulverized Barium Dioxide and the resulting mixture boiled?
8. Each of five bottles contains one of the following gases:

Hydrochloric Acid gas, Hydrodic Acid gas, Carbon Monoxide, Nitric Oxide, Carbun Dioxide.

Describe how you would most easily determine the gas in each bottle.

## HISTORY AND GEOGRAPHY.

$$
\text { Examiners : }\left\{\begin{array}{l}
\text { W. J. Alexander, Ph.D. } \\
\text { J. E. Bryant, M.A. } \\
\text { F. H. Sykes, M.A. }
\end{array}\right.
$$

Note.-Candidates for the Junior Leaving Examination will take section $A$, any three questions from section $B$, one question from section $C$, and one question frow section $D$; that is six questions in all.
Candidates for Matriculation will omit section A, and take any six questions from the remainder of the paper.

## A.

1. (a) Describe carefully the provisions of (1) the Treaty of Paris (1763), (2) the Treaty of Versailles (1783), so far as Britlsh power in North America was concerned.
(b) Describe carefully the causes which led to the passage of (1) the Quebec Act (1774), (2) the Constitutional Act (1791), and state concisely the principal provisions of these Acts.

## B.

2. (a) Describe concisely the principal provisions of the Bill of Rights (1689), and show why it was necessary to put these provisions in the form of a Statute.
(b) Describe concisely the means taken during the reign of William III. to secure
(1) the meeting of Parliament at least once every year ;
(2) the control of Parliament over the Army ;
(3) the keeping of Parliament in accord with the opinions of the people ;
(4) the freedom of the press;
(5) the independence of the judiciary ;
(6) the maintenance of the coinage of the realm at its proper standard of weight and purity.
3. (a) Write accounts concisely describing
(1) the origin in England of the system of government by party cabinets;
(2) the foundation of the Bank of England ;
(3) the beginning of the present National Debt of England. Descritue also how it is that the National Debt has come to be in some respects a great national convenience and a safeguard to the nation in favor of stability of government.
(b) Give some account of the literary activity that characterized the opening years of the eighteenth century.
4. (a) Sketch the character and the political and military career of Marlborough. What do you think are the lessons to be deduced from a study of his life?
(b) Discuss the relative merits of the respective titles of George I. and the son of James II. to the throne of England.
(c) Describe the influence which the accession and reign of George It had upon parliamentary government in England.
5. (a) Sketch the beginnings of English rule in Lndia. Describe its condition and extent at the conclusion of the Peace of Aix-la-Chapelle (1748).
(b) Sketch the history of India as a British possession from 1748 to 1773 . making special reference to the career of Robert Lord Clive.
(c) Describe the conduct of Warren Hastings as Governor-General of India with special reference to what he did for the extension and permanent establishment of British authority there. Describe briefly the causes, incidents and results of the trial of Hastings.
6. (a) Give as full an account as possible of the industrial improvement and commercial progress which were made in England in the eixhteenth century, and describe carefully the influences, political or otherwise, which contributed towards producing this improvement and progress.
(b) Give a brief account of the moral and social reforms which characterized this century, and refer these, as far as possible, to the persons who were instrumental in effecting them.
7. (a) Describe as fully as you can the causes which led the people of the thirteon American Colonies to declare their independence of England, July 4th, 1776.
(b) Describe succintly the domestic troubles of England during the progress of the American War of Revolution (1776-1783).
(To be concluded in next issue.)

Men's tongues are voluble,
And endless are the modes of speech, and far Extends from side to side, the field of words. Such as thou utterest, it will be thy lot
To hear from others. -Homer, B.C. 900.
THe chief elements of the power of discipline are : ability ta win the love of pupils; skill in ap. pealing to good motives, and force of character to exercise moral constrant and restraint over those who cannot be reached by the first two.-Dr. Thomas M. Balliet.

## Primady Defparfimenty.

## SEPTEMBER OPPORTUNITIES.

Among the many visitors this summer to a quaint little resort on the coast of Maine were two boys about twelve years of age. It was their tirst experience of the sea-side. The little fellows were alike in many respects. Indeed, in appearance, they might have been taken for twin-brothers. Their characters were, however, extraordinarily dissimilar. I could not help observing the different ways in which they were affected by the wonders and leauties of the sea. One, all alert, eager, questioning, exploring here, thereand every where; returning from every expedition with bulging pockets and full hands, happy in the possession of some new species of rock or sea life. The other just as much the reverse as was possible for a boy to be; mildly enthusiastic, but not in the least observant or curious. The former was to a few of his elders somewhat of a nuisance, but to most of us he was interesting. He was truly an animated question mark.

Such differences are held by some people to be due entirely to peculiarities in the nature and temperament of the child. I do not think so. We may make some allowance for these, but a vast deal more depends upon the training received. The enquiring spirit is a part of every child nature. Whether it is fostered, directed aright and turned to good account, or discouraged and in other ways crushed out of his life, depends on the home and school atmosphere in which he lives.

Now September, more than any other month of the school year, seems to me to be rich in opportunities for the development of the perceptive faculties. Let us consider briefly the means.

First of all, we might mention the subject of botany. More nccurately we might call these lessons "flower talks," being botany simplified and adapted to the capacity of the children. Some of the late garden plants are still in bloom, and the wild aster, in good variety, is plentiful in the woods.

The material for object lessons is almost without limitation. Flower-seeds, grains, fruits, acorns, chestnuts and a score of other things will suggest themselves as the days go by. September is truly a harvest time for school. And if you could gather together a few small bottles you might begin a collection of seeds, grains, etc., studied during the term.
Collections of leaves may also be made. These should be pressed and affixed to pasteboard. A little light varnish brushed over, will bring out the colors well and preserve the leaves. As they are not intended for ornament alone, they may be utilized in the drawing lessons and also as subjects for botany talks.

What interesting language lessons we can have this month! Descriptions of holiday excursions, pic-nics, visits to the country or town. Why, the children just bubble over with excitement when we begin to talk about such things. Every child has something to tell of the past two months. If
possible, there should be a written account also, but in any case the "holidays" will prove an interesting topic for excellent language lessons. Another feature of the month is the never-failing provincial or district exhibition, of which most children get a glimpse. There, if anywhere, is food for language. "A day at the Fair" may be a theme for a fortnight at least.

Many other opportunities for development along these lines may present themselves before the autumn months are over. Whatever they are, let us make the most of them. Time thus spent is well spent, even though it may not increase your promotion list. The inquiring, observant and appreciative spirit, is one that can be cultivated and is worth cultivation.

## AN ARITHMETIC LESSON.

Training Departinent, Normal College.

Teacher.-Children, let us each start out with a certain sum of money. What I draw on the board you may draw on your slates.
(Draws.)
\$1. What does the first oblong stand for?
\$1. What does the second oblong ........: stand for?
\$1. What does the third oblong stand for?
Teacher:-How many cents would you give ine for $\$ 1$ ? How many cents would you give me for \$3? Could you give me anything else?

Children.-We could give four quarters. Or two fifties. Or ten dimes.

Teacher.-Would it be fair to give me ten dimes for one dollar?

Children.-Yes, Miss Palmer.
Teacher.-Put over here on the board these-
(Draws next to the dollars two cents.)

## $\$ 1 . \$ 1 . \$ 1 . \mathrm{O} \mathrm{O}$

Teacher.-How much have we now? Children.-Three dollars and two cents. Teacher.-Who can write that sum for me?

Children--(Writes 2, and then hesitates.)
Teacher.-How many dimes have we?
Children.-None.
Teacher.-Write it so. How many cents? Children.-Two cents. (Child writes 302.)

Teacher.-How many cents have we altogether?

Children.-302.
Teacher-How much have you, Genevieve? You, Mary? Someone comes to us with flowers to sell, and we will each buy a flower for May day. The boy has no change. Each flower will cost twenty-six cents. Can we pay 26 c. exactly if we have $\$ 3.02$ ?

Children.-No, Miss Palmer.
Teacher.-What must we do ? Children.-We must have change.
Teacher.-How shall we get change?
Children.-We could go to our bank.
Teacher.-Shall we take all the $\$ 3$ ? No?

Children.-Only $\$ 1$.
Teacher.-How much may I take from the bank for $\$ 1$.

Children.- 100 cents.
Teacher.-What smaller could I take?
Children.-You could take 10 dimes.
Teacher.-How much must I put into the bank?

Children.-\$1.
Teacher.-(Erases one of the dollars, drawing'ten dimes in its stcad.)


$$
\$ 1 . \$ 1 . \mathrm{O} \mathrm{O}
$$

Teacher.-May, where did I get those ten dimes?

Child.-From the bank.
Teacher.-Have we as much money now as we had at first?

Children.—No, Miss Palmer.
Teacher.-Jenny, have we?
Child.-Yes, just the same.
Teacher--But we have only $\$ 2$ now. Where is the other?

Children.-You rubbed it off, but you put ten dimes for it.

Teacher.-Are they worth $\$ 1$ ? Then I have as much? How much was I to pay for the plant?

Children.-26c.
Teacher.-How many of the 10c. pieces shall I need?

Children.-Two.
Teacher.-But can I pay the 6c. with only 2c.?

Children.-No, you must change one of the 10 c . pieces.

Teacher. (Erase a 10c. piece, adding 10 cents.) Children follow on slates.
\$1. \$1.
OOOO
OOOO
O O
000 O
00000

Teacher.-Now I can
Teacher.-Now I can pay the 6c. How many cents have I?
Children.-Twelve.
Teacher.-Where did I get the 10c.?
Children.-You changed a dime.
Teacher.-May, come and pay the 6c. Now the two dimes.
(Child marks off the cents and dimes. They are presently erased.)

Teacher.-Now we will rub them out. Count how many of each kind left. Put the numbers under them. How many \$'s? How many dimes? How many c.'s? Now write them close together. How much left, Lina?

Child.-2 dollars, 7 dimes, and 6 cents, or, $\mathbf{z 7 6}$.

Teacher.-Draw a line under your work on your slates. How much money did we have at first, Jenny?

Child.-302c.
Teacher.-How much did we spend?
Children.-26c.
Teacher.-Could I pay 6c. with only 2c.?
What did I do ?
Children.-Took one of the dollars.
Teacher--How many dollars had I left? Children.- $\$ 2$.
Teacher.-That didn't help me with my c.'s.

Children.-You took one dime and made 10 c .

Children.-You had 9 dimes left and 12 cents.
Teacher.-How can I take 6 c . from 12c. ? How can I take 2 dimes from 9 dimes? How can I take $\$ 0$ from $\$ 2$ ?

Teacher.-Now put away your slates. From 304c. take 126c. Belle, can you pay 126 c . with 304 cents? Work the example.

$$
\$ 2-10-14
$$

304
126

## 178

Children.-6c. from 4c. you cannot pay, so you take 1 ten.

Teacher.-Will that help here?
Children.-No, you must take $\$ 1$. (Doing so.) That gives 10 dimes; then you take one dime and change to 10c.; that leaves 9 dimes.

Teacher.-Where did you get the 14 c .?
Children.-From the dime and the 4c. that was there.

Teacher.-Now subtract. How much left? Are you sure? How can you be sure?

Children.-By adding.
Teacher.-Do so. Be careful which numbers you add. Is the example right?

Children.-Yes, Miss Palmer.-Popular Educator.

## Science.

Edited by W. H. Jenkins, B.A., Science Master, Owen Sound Collegiate Institute.

## PREPARATORY WORK FOR STUDENTS IN

 BIOLOGY.Teachers and students intending to pursue the science option for first-class certificates or honor matriculation can make many of their leisure hours profitable in preparing and mounting specimens which they can afterwards study in detail with the assistance of a teacher. It is almost impossible to obtain a clear comprehension of the various types of the animal and vegetable worlds without practical examination. In entering on the study of zoology the common frog is an accessible and suitable form. The skeleton is of great importance to beginners. It may easily be prepared as follows: --Kill the frog by chloroforming, so as not to injure any part. Remove the entrails, skin, and greater muscles carefully. Dip, for a moment only, in boiling water, then carefully remove the remainder of the flesh. Fasten the mouth open with a small stick, and mount on a piece of pasteboard in the natural sitting posture of the animal.
The skull of a cat, dog or rabbit should also be prepared. This is perhaps best done by removing the skin and superficial flesh and burying in an anthill, leaving for a few weeks.

The complete skeleton of a six or seven weeks' old chick should also be in the collection. Drown the chick by holding its head under water. Dip for a moment in boiling water; remove the feathers, then open at the abdomen and remove as much of the entrails as possible. Immerse in boiling water for not more than three minutes (two will generally suffice), and remove the flesh by forceps. If care is exercised noue of the bones will be separated. Dry carefully, and mount in the erect attitude.
In Botany, a good key should accompany you in all your walks. Make yourself thoroughly familiar with phanerogamic work. The study of the tissues and of cryptogamic forms is best conducted in the and of cryptogamic forms is best conducted in in that case, make thin sections with a good sharp razor, mount in water and draw.
It is surprising how much assistance a course of preparation will be in future reading.

## JUNIOR LEAVING CHEMISTRY.

hints and answers to the questions of 1892.

1. (a) Since two volumes of H unite with one volume of O to form two volumes of water vapor, the 20 cc of O will use up 40 cc of H . If the resulting water vapor is condensed to water it will then occupy almost no volume, and may be neglected. There will then be left 40 cc of H. Two volumes of CO unite with 1 vol. of O to form two vols. of $\mathrm{CO}_{2}$

Hence there will be formed 40 c.c. of $\mathrm{CO}_{2}$ and there will be left 40 c.c. of CO.
(b) Two vols. of H unite with 1 vol. of O to form 2 vols. of water vapor.

Now equal vols. of all gases under same conditions of temperature and pressure contain equal numbers of molecules. Then suppose in each vol. there are 10 molecules, then the above statement there are 10

20 mols. of H unite with 10 mols . of O to form 20 mols. of water vapor.

In each mol. of water vapor there must be at least one atom of $O$, then in 20 mols. there must be at least 20 atoms; but these 20 atoms came from 10 molecules, $\therefore$ the molecule of $O$ contains at least two acoms.
2. (a) $\mathrm{Mn}_{\mathrm{n}} \mathrm{O}_{2}+4 \mathrm{HCl}=\mathrm{M}_{\mathrm{n}} \mathrm{Cl}_{4}+2 \mathrm{H}_{2} \mathrm{O}$ M Cl ${ }_{4}=\mathbf{M ~ C l} l_{2}+\mathrm{Cl}_{2}$
(b) (1) 35.5 grammes
(2) $11.2 \times \frac{279}{2} \times 769$ litres.
(c) $\mathrm{NH}_{3}+3 \mathrm{Cl}_{2}=\mathrm{NCl}_{3}+3 \mathrm{HCl}$
$2 \mathrm{KI}+\mathrm{Cl}_{2}=2 \mathrm{KCl}+\mathrm{I}_{2}$
$\mathrm{H}_{2} \mathrm{~S}+\mathrm{Cl}_{2}=\mathrm{S}+2 \mathrm{HCl}$
$6 \mathrm{KOH}+3 \mathrm{Cl}_{2}=5 \mathrm{KCl}+\mathrm{KClO}_{3}+3 \mathrm{H}_{2} \mathrm{O}$.
3. (a) The substance is a chemical compound, composed of hydrogen, nitrogen and oxygen in the proportions of 1.1.3 by volume and 1.14. 48 by weight.

Hydric nitrate is acid

## Potassium nitrate is neutral

## Putassium hydrate is a base.

(b) Ammonium nitrate (a salt) and water are formed, the latter is driven off in evaporating, and the former when heated is decomposed into nitrous oxide and water.
(c) $72_{17}^{17}$ grammes.
4. Consult any standard text-book.
5. (a) The July number of The Journal answers this.
(b) See Knight's Chemistry under the head of Decomposition of $\mathrm{CO}_{2}$.
(c) Pass electric sparks, add O and pass spark again. Proceed carefully and remainder is nitrogen.
6. Electricity : Take decomposition of water apparatus, pass current of electricity. The gases formed can, by reversing, be made to produce a current of electricity. This is the secret of the storage battery.
Heat: Heat $\mathrm{KClO}_{3}$, result is a chemical change. Bring $\mathrm{KClO}_{3}$ and $\mathrm{H}_{2} \mathrm{SO}_{4}$ together; result is a chemical change and heat is produced.
Light causing chemical action: Expose a paper dipped in silver nitrate to the light.

As a result: Burn sulphur or phosphorous in oxygen.
7. (a) $\mathrm{P}_{4} \mathrm{O}_{5}+3 \mathrm{H}_{2} \mathrm{O}=2 \mathrm{H}_{3} \mathrm{PO}_{4}$
(b) $\mathrm{Cu}+{ }_{2} \mathrm{H}_{2} \mathrm{SO}_{4}=\mathrm{CuSO}_{4}+\mathrm{SO}_{2}+2 \mathrm{H}_{2} \mathrm{O}$
$\mathrm{SO}_{2}+\mathrm{I}_{2}+2 \mathrm{H}_{2} \mathrm{O}=\mathrm{H}_{2} \mathrm{SO}_{4}+2 \mathrm{HI}$
(c) $\mathrm{BaO}_{2}+2 \mathrm{HCl}=\mathrm{BaCl} \mathrm{C}_{2}+\mathrm{H}_{2} \mathrm{O}_{2}$

$$
\mathrm{H}_{2} \mathrm{O}_{2}=\mathrm{H}_{2} \mathrm{O}+\mathrm{O} .
$$

8. A knowledge of the leading properties of each compound is all that is required for this question.

## HOW TO ASCERTAIN THE HEIGHT OF TREES.

The height of a tree can be readily determined by the following plan :-Measure the height you can easily reach from the ground in feet and inches. Step to the trunk of the tree you wish to measure and, reaching to this height, pin a piece of white paper on the tree. Step back a distance equal to three or four times the height of the tree:
hold a lead-pencil upright between the "thumb and forefinger at arm's length. Fix it so that the end forefinger at arm's length. Fix it so that the end
of the pencil shall be in line with the paper. Move the thumb down the pencil till it is in line with the ground at the base of the tree; move the arm and pencil upward till the thumb is in line with the paper, and note where the end of the pencil comes on the tree. Again move and continue till the top of the tree is reached. Multiply the number of measures by the first height.

Apgar.

## WINTER WORK IN BOTANY.

IT is the practice of many science teachers to devote the winter months almost exclusively to physics, and to leave Botany, as a subject which can easily be "got up," until the opening of spring. Then the process of cramming begins, with the result that a large mass of undigested matter is absorbed by the student, whom the examination leaves in a collapsed condition. It is hardly nécessary to speak of the injurious effects of such a course upon both the student and the subject. It is neither necessary nor educative.

By a very small amount of exertion the teacher can induce his pupils to gather and preserve twenty or thirty selected leaves. These can be dried and preserved either in a scrap-book or in other suitable method. When the winter sets in each student has his own material for independent practical work. These leaves can be drawn and described both orally and in writing. In this way a host of botanical terms will be easily acquired, and the lessons become interesting and valuable. Besides this form of work, cultures of seeds of various kinds in pots may be resorted to, and all the phenomena of germination observed and studied. The sooner the pernicious habit of specializing for months at a time on one subject, to the entire exclusion of others, is abandoned, the sooner will the relative value of each science be recognized.

## ANSWERS TO CORRESPONDENTS.

W.M.-You will find the answer to your question in another column, under the heading of Junior Leaving Chemistry.
J.W.P.-It is not at all probable that the explanation you have heard is the correct one. It is one of those popular superstitions which the intelligence of the nineteenth century has not yet wholly dispelled. A warm summer rain, such as you mention, is especially suitable to the development of the young larvæ. Hence their appearance in such numbers.

## Book Fołices, ełc.

Any book here reviewed sent post-paid on receipt of price. Address l'he Grip Printing \& Publishing Co., Toronto.

Trees of the Northern United States. American Book Co. Price, $\$ 1.00$.
The above is the title of a little guide-book prepared by Mr. A.C. Apgar, of the New Jersey State Normal School. It is specially prepared for the use of those who, lacking, a systematic scientific training in Botany, still desire to become practically acquainted with Nature in one of its most attractive forms. The preliminary chapters are devoted to explanations of the more commonly occurring terms employed in classification. The chief value of the key lies in its basis upon characters which can be observed during the whole summer months; while it gives accurate results rapidly.

You are disappointed. Do you remember, if you lose heart about your work, that none of it is lost ; that the good of every good deed remains, and breeds. and works on forever; and all that fails and is lost is the outside shell of the thing ; which, perhaps, might have been better done, but, better or worse, has nothing to do with the real spiritual good which you have done to men's hearts, for which God will surely repay you in His own way and time.-Charles Kinquley.

## Liiferary ఇopes.

Tae September Century is particularly interesting for its fiction. A new writer (from the South) comes upon the scene, John Fox, Jr., who publishes the first instalment of a two-part story entitled "A Mountain Europa," with illustrations by Kemble. Mr. Fox evidently understands well the mountain people of whom he writes, and the girl who is the heroine of the story is one of the most striking characters in recent fiction. Another new writer of fiction, Grace Wilbur Conant, appears in this number of the Century with a humorous story, "Phyllida's Mourning." That delightful humorist, Richard Malcolm Johnston, author of "Dukesborough Tales," has a short story in this number entitled "A Bachelor's Counselings," with pictures by Kemble. Still another short story is by George Warton Edwards, the artist, entitled "Strange to Say," in his quaint illustrated series of "Thumb-Nail Sketches." Mrs. Mary Hallock Foote's "The Chosen Valley," with pictures by the author, and Henry B. Fuller's "Chatelaine of La Trinite," are continued.

Besides the serials, which are now coming close to the grand transformation scene in the fifth act, St. Nicholas has a large number of valuable papers to offer in the September number. The number opens with a careful study of "A King without a throne," by Tudor Jenks. The life of the son of the great Napoleon is here retold from the point of view of a child's interest, and Ogden's excellent pictures make the account a very vivid and pathetic story. Maurice Thompson has a poetical tribute to the great field naturalist, Alexsnder Wilson, and there is an interesting story of the sea by D. B. Waggener, a clever, practical article upon how to keep a community of ants for
purpnas of atudy, and a record by 1 . E. purpnaes of study, and a record by L. E. boy to ride upon the walking-beam of the Mississippi steamboats, in order to draw custom for the boats. We may also mention as worth reading, "A Kitten by Post," "Nan's Collecting," and especially the bright article by Elbridge S. Brooks, "The Last Conquistador," with Ogden's illustrations. No one will overlook
Meredith Nugent's "Troublesome ModMeredith Nugent's "Troublesome Mud
el." Laura E. Richard's verses "Mr Somebody,", nor John Pichard's funny "Mazeppa."
Education for September has the following contents :-"The Province of the Normal School," Hon. John W. Dickinson;" Notes on Principles of Education, -1II." M. MacVicar, LL.D.; "Education for Citizenship," Prof. Walter S. Harley," A.M. ; "A Study of Browning's Puetry," May Mackintosh, Pd.M. ; "Preparatory Department in Connection with Colleges," Prof. Charles W. Super ; "The Woman's Educational Movement in Germany," A. Witte; "Exogenous and Endogenous Education," Charlotte A. Powell; "Thought Children" (Poem), Julia H' May, etc. ; also Editorials, Professional and Review !epartment.

Rabbi Solomon Sohindler's Analysis of Nationalism in the September New England Magazine, is perhaps the best exposition of the subject which has sppeared in periodical literature. Edwin
D. Mead discusses the recent Homestead disturbances with fearless vigor and candor. E. P. Powell puts forward the thousand and one arguments, commercial, ethical and artistic, that can be made in favor of good highways. W. L. Sheldon makes a strong plea for "The German element in America." Nicholas Paine Gilman given a brief resume of the results of the experiments in profit sharing that have been made in the United States.

Walter Blackburn Harte contributes a strong indictment of "society," under the caption of "The Author and Society." "On the Shores of Buzzard's Bay," by Edwin Fiske Kimball, is a bright, well lllustrated article, and will interest a large number of readers.

Question Drawer.
In the "Question Drawer" of last number we replied to an inquirer that we did not know the price of Dr. MacCabe's "Hints for Language Lessons," but were informed that it would be about a dollar. The guess was that of a leading bookseller. Dr. MacCabe informs us that the price will not be more than forty cents. Thirty cents is the price in Boston. We regret the mis-judgment.

A subscriber asks us to publish a precis of the Life of Sir John A. Macdonald. This would lead us oat of our course. Moreover, no satisfactory sketch could be given in the space at our disposal. We are, therefore, compelled to refer our friends to the published biographies, two or three of which are in the market, and accessible wherever there is a public library, or through the booksellers.

A correspondent asks us to publish a list of Canada's imports and where obtained, Canada's exports and to what countries; also the exports of Ontario to the other Provinces of Canada, and her imports from the other Provinces. This would be rather out of our line, and would require more space than we could afford for such a purpose. The information, so far as procurable, will be found in the Statistical Year-Book of Canada, recently issued for 1891, by the Department of Agriculture, Ottawa. We presume that a copy could be had on application to that Department, or it may probably be seen in any newspaper office.
E. W.-We will try to give some reproduction stories from time to time. See Editorial Note in reference to the celebration of the 12th of October. For the list of subjects for the Second-Class NonProfessional Examination you had better write to the Department. Thanks for the strong words of appreciation. E. W. makes the following request:-"Will some of the readers of the paper explain some mathods of making Part I. reading class interesting without the use of tablets or blackboard?"

Mr. Knox-" Ethel, it is perfectly imbecile, your trying to give yourself the airs of a prima donna, every time George calls.

Ethel Knox-"Why, papa! What can ou mean?"
Mr. Knox - "I heard you say farewell at least sixty-five times last night."
"What's this?"' exclaimed the goat, as he ran his eye down the column of the newspaper and read an article on "The Digestion of the Ostrich." "Well, well ! Huw people do alk!" he murnared, as he finished the paper old boots.

Teachers and Students will profit by examirring the book lists, and sending to J. K Cranston, Galt, for any bodoks they may need good books are always mines of wealth to the studious man.

Tell me, darling, why I love you,"
Warbled Mabel, soft and low;
And I answered my dear charmer,
" FWe're not married yet, you know."
An Ascot necktie is much like charity; it covereth many a dirty shirt.

## TEACHERS WANTED:

For vacancies of all kinds in nearly every section of the success of our well tried

## CO-OPERATIVE PLAN

of obtaining vacancies, and filling positions through local agents and members. C
blanks free. Agents wanted.

## HATIONAL UNIVERSITY BUREAU,

${ }^{247}$ Throop St., Chicago, Ill.

## HENDERSON \& FLETCHER'S

 First Latin Book
## Price,

Authorized by the Education Department
Second Edition Now Ready
THE COPP, CLARK COMPANY (Limited)

## Ready for Publication on

SATURIDAT, SEPT. 17th
NewPablie Sehool History
Price
30 Cents
Authorized by the Education Department
As far as possible all orders will be shipped on the above date.

The Copp, Clark Co., Limited.

## ro reatelners $\bar{y}$ ROY'S

Pratieal Langrage Training
25 Cents. Mailed post free upon receipt of price.
Note.-There is no difficulty in selling this little book to those who get a glance at its contents, but
there is dificulty iin letting the thou mends of teachers throughout the Dominion know that such a valuable
litte desk help can be had for 25 cents,
The Copp, Clark Co., Ltd. TORONTO.
Elite Letter Writer. A complete guide and assistant rules and directions for writing on va-
rious subjects, together with oripinal rious subjects, together with original specimen letters on Friendship, Rela-
tionship, Love, Congratulation, Contonship, Love, Congratulation, Con-
dolence, Favor, Advice, Tratel; Mis-
cellaneous suygestions for letter Friters, Postal Laws, List of Abbreviations, Latin Mo. ह. Price................................. . 25 cts.
 A guide to the manufacture of
hundreds of useful and salable ar ticles. including pratent medicines perfumery, toilet and dental articles, and many others easily made at trifing cost; selling readguess work, it has been done, ing out for something, this is worth trying No. 12. Price. ething


Orignal Dialogue This work contains 19


[^0]
## NOX READY

A New Latin Text - Book
ROBERTSON and CARRUTHERS'
Primary Latin Bolk
Authorized for use in High Schools and
Colle iate Institutes. A. Capruthers, B.A.' Toronto (Parkdale) Coll. Inst.
J. C. Robertson, B.A., Toronto Junction Coll. Inst

Price - \$1.00, Postpaid

Scope of Book. - This book is intended chiefly for pupi's preparing for the Primary Examination, but eachers wil find that it covers all the griund requird
fur Junior Leaving and Pass Matriculation students. Contents.-Ther : are three parts : I. Lessons for ${ }^{r}$ COvTENTS.-Ther are three parts : I. Lessons for
be inners, introductory to the reading of Casar. in
II. A cours, introductory to the teating of Crose Compasition, baced upon Casar's idioms ind vocabulary. III. A digest of
Latin Grammar, as required in ordinary High Schod work. In additi $n$ to a chapter on the metre gil there are also Vocabularis s and an Index.
Jonr AuThorship. - The authors' names are in
theinselves a guarantee of accurate scholarship and thenselves a guarantee of accurate scholarship a
practical methods. The collaboration. and tne practical methods. The collaboration. and tne red
vision and criticism of each other's work, have proved of the utmosi value in securing accuracy and due pro portion.
The book is intended for use, not to display know. be not it is for High School work, as it is or shoul
book of reference for advanced student 4 it is progressive, but not radical; it will help the
teacher to teach and to $t$ ain, instead of to "cram"; teacher to teach and to $t$ ain, instead of to "cram",
it will develop a reading power early, instead of leavo
ing that to be acquired late, if at all: it is a boot ing that to be acquired late, if at all; it is a bo
of reference and a book for practice, combined, bul not confused; it is the only book of similar scope to
which references are made in an annotated edition of Cassar.
The
The type is new and clear. the paper of good qual.
WILLIAM BRIGGS,
Wesley Buildings, Toronto


SHORTHAND
By mail or individually. $\$ 5$ until pro ficient. We teach Isaac Pitman's systemt.
A system used by 95 per cent. of the
Stenographers and Stenographers and Reporters in Canada mercial Arithmetic, Shorthand, and Commercial Cor tespondence are the subjects taught. \$5 belns dreds of our pupils are now holding positions throughb graphers, Bank Cas as graphers, Bank Clerks, etc. Over 1,600 students five years, which is equal to the combined attendance of ail the Business Colleges in Toronto, during tho same period. Pupils assisted to positions. We aleo
have a Music and French department in connection with this Academy

## LOWE'S COMMERCLAI ACADEMY

346 Spadina Avenue,
Toronto
Manual of Punctuation

TYPOGRAPHICAL MATTERS

Designed for Printers, Students, Teachers, and Writers, by

## JAMES P. TAYLOR

This little book of eighty-two pages aims to make every student of it an adept in the art of punctuationt and we do not think we claim tuo much for we say that it will accomplish all it aims to. taken trom any, one or two excepted, have not beep taken trom any work on the subjict, but from every outside source thnt provided the best for illustrating
the subject. Many have been taken from the Scho. Readers ; and it is believed thit they are sufficiently numerous and well chosen to afford all necessary at s.sta to aspe
neglected art.

Paper - 28 Cente
Mailed, post-paid, on receipt of price.
GRIP PRINTING \& PUBLISHING CO.

## OFFICIAL CALENDAR

- f т me -
fiducation
DEPARTMENT

Attention has been called to the propriety of haviig su table exercises in our schools on the ${ }^{12 t h}$ of October, to commemorate the 400 h Anniversary of the discovery of America. For this purpose teachers are recommended to trake whatever arrangements thry may find Most convenient for bringing to the no ice of Their pupil; such an important historical Spent. It is suggested that on the afternoon of that day, so ta: as time may allow, there bight be suitable songs and recitations by the popils, a sketch of the life of Columbus might oe read, and advantage might be taken of the Occasion for having short addresse-, dealing With the progress of civilization since the disGovery of this Continent. Extrcises of this Kind could be made very inte resting and should exert a good influence on the youth of our ${ }^{c}{ }^{0} a_{n t r y}$.

## ADDENDA TO TEXT BOOK LIST.

The following additional Text Books were
Authorized by the Department of Education on
August.24, 1892, sulject to the provisions of
ection 175 of the Public Schools Act, 189 I.
Collegiate Institutes and High Glassics:
First Latin Book, by J. Henderson, B. A., and J. Fletcher, B.A., price. \$I co The Copp-Clark Co.)
Primary Latin Bonk, by A. Carruthers B.A., a d J. C. Robertson, B.A. (Methodisi Book and Pub. House.) English

## Public Schools

Public School History of England and Canada (new) by W. J. Rubertson, B.A.............................

Note-Change in Price
Public School Writing Course, each number (to July, 1894).
(Afier /uly', I894, Five Cents.)
The Department of Education has also Ondered that the Public School History of England and Canada, by G. Mercer Adam and W. J. Robers $n$, B.A., autherized in ${ }^{1885}$ and in use at present date in the Public echools of Ontario, shall cease to be author
ted on and after July 1, 1894 .
月igh School Entrance Examinations. selections for literaiure. 1893.

Lesson V. Pictures of Memory.
Lesson X. The Barefoot Boy.
Leson XIX. The Death of the Flowers.
Lesson XXIV. The Face Against the Pane.
Lesson XXVI. From the Deserted Village.
Lesson XXXV. Resignation.
Lesson XL. Ring Ont, Wild Bells.
Lesson XLII. Lady Clare.
Lesson LII. Jacques Cartier.
Lesson XCI. Robert Burns.
Lesson XCII. Edinburgh after Fl dden.
Lesson XCVIII. National Morality.
Lesson C. Shakespeare.
Lesson CII: The Merchant of Venice-First Lesson CIV. Second Reading.

## SELECTIONS FOR MEMORIZATION.

Fourth Reader

[^1]
# A NEW BOOK 

 FORNormal and Model School Students and Primary Teachers
S. B. SINCLAIR, B.A., HAMILTON.

SECOND EDITION OF

## First Yeap at School

ENTIRELY RE-WRITTEN AND EVLARGED.

Novr Ready. PRIGE 50c.

WARWICK \& SONS
68 and 70 Front St. W. TORONTO.


The Cyclostyle Duplleating Appar-atus-For Duplleating Writing Dpawing, Music or Typewriting
Two thousand exact copies from one writing, each copy having all the appearance of an original. Simple, rapid, clean and durable. Endursed by upwards ol the Dominion. Invaluable for teachers and schools for reports, examination papers, circulars, blank forms. instructions, notices, maps, and all classical work, Used in most all our colleges, and rapidly being taken
up by our principal schools. Write for circulars and up by our prin

CYCLOSTYLE CO.,
16 KING ST. EAST, - TORONTO.

## BAFFLES <br> HUMAN CONCEPTION



Nature's all-powerful healer is discovered and when imbibed freely radiates the arterial network of the body, absorbs and rushes off all effete, deadly poisonous matter. Also it contains all the sixteen elements of ripe molecular life, builds every weak part, builds every weak part,
restores nerve and vital restores nerve and
power, is the sunshine of power, is the sunshine of
life, the wonderful. So life, the wonderful. So
say all that use St. Leon say all th
Water.

St. Leon Mineral Water Co., Ltd. $\underset{\text { Branch Offict-Tidy's, Yonge St. }}{\text { Head }}$

## SOLID GAYNS.

JANUARY TO JUNE INCLUSIVE

| Year | No. of Applicafrom Agents | Ameunt of Insurance from Agents | Cash Income |
| :---: | :---: | :---: | :---: |
| 1889 | 354 | 4473,000 | -28,056 |
| 1890 | 511 | 8833,000 | \$35,667 |
| 1891 | 632 | 8771,000 | \$43,272 |
| 1892 | 816 | \$960,000 | \$52,626 |

## The figures given herewith

 tell their own story.For any desired Information concerning Life Insurance write us. Our circular, entitIed "The Better Way," should be perused by every intending: insurer.

## The Temporanee and Generaal Life Assuramee Co. <br> HON. G. W. ROSS, <br> President. Manager. <br> HEAD OFFICE, Manning Arcade, <br> TORONTO

## Teachers and Students

WHEN IN NEED OF BOOKS

Will find it to their advantage to send their orders to us, as we have unueual facilities for prompt forwarding, and our prices are known tu be ol the luwest. We can supply any book you want.
VANNEVAR \& CO., Educational Booksellers, 440 YONCE ST., TORONTO
HOME BTUDY, LATIN and GREEK at alogue of Schoul Buoks," free. C. Dample pages and CatSONS. Publishers, Philadelphia, Pa. Address all orders, wholesale or retail, 10 Tho Bakor \& TayIor Co., 740 Broadway, N.Y.

## Sight. . Translation

That Admirable Little Book

## Latin Selections

## By J. MORGAN, B.A.

Of Walkerton High School
Has met with such success that the publisher has had to have a

## NEW and EnLarced edition prepared

The book has been made about one-third larger by the addition of selections for lionor Matriculation S udents, making the book complete fur all High Schools and Collegiate Institutes.

Testimonials have been received from many prominent teachers

Orders sent direct to the publisher will receive pronipt altention.
rRank Porter, Pulisher 353 Yonge St., Toronto

## HINTS and

## EXPEDIENTS

## For Young TEACHERS

This is a manual prepared by Mr. David Boyle, an experience, succes ful teai her, whuse tertility of
r-source and ori, kounh, Grip's own ar, ist, has illustrat, d the w rk with cat hy sketches. Tir tho.e 1 wr whom it is in end. ed, it will prove "A Gulde, Philosopher, and
Friend." Friend."
it contains niarly
Forert Four Hundred Hints
And Expedients
Of a plain, pointed, and practical character, many of which have never app ared in print betore. while others are the result of wide reading and extensive intercourse with Public Sch other countries.
umberd paragraph and the matter is arranged in The book appeirs in der aopropr ate heacinks. in the pocket, being neatly buund in cloth. Pitice, 85 cents.

Mailed postpaid on recaipt of prica.
GRIP PRINTING and PUBLISHING CO.
TORONTO.



- FIFTH EDITION Armstrong's Arithmetical FOR Problems

Senior Classes in Pub ic Schools, and Candidates for Entrance to High Schools and Collegiate Institutes.

This edition contains nearly goo Problems. The Entrance Papers rrom June 1880 JUNE 189a, both inclusive, are appended, also the Public School Leaving
Examination Parers for 1892 . The answers to all the Problems are given. No other work possesses these features.

## Read What Teachers and Inspec

 tors say of it:-I am highly pleased with your Arithmetical Problems for Senior classes. It suits my Entrance candiFourth Class pupil.-Gro. Kirk, Head Master M.S., Chatham.

I have just examined your Arithmetical Problems for Senior Classes. The problems are very suitable and the collection must prove very valuable to teachers. I heartily commend it.-G. D. Platt, B.A. P.S. Inspector, Prince Edward.

Atter a caretul examination of your "Arithmetical Problems for Senior Classes," I find them well graded and very suitable for the purpose intended. The save himself a vast amount of labor, and in all probability secure to his pupils much better results.-I.'S. Dencon, Inspector, Halton.
1 have no hesitation in saying that for the purpose for which it is intended the work is infinitely the best with which I am acquainted. Its strong point, to my sdea, is the logical sequence in the problems by which he reaches quite a difficult style of question. The printer, too, has done his work very well. and there are but few typographical errors. I shall certainly recommend every teacher in my inspectorate to use copv.-J. C. Morgan, M.A., Inspector, Barrie.

Prioe, strongly bound in cloth, 25 ots.
Grip Printing and Pablishing Co.
TORONTO, ONT.
Trade supplied by the Copp, Olark Co.

LUMSDEN \& WILSON'S


## FOOTEEAKLKS

The above cut represents the cover of the "Per rection Football" as it is registered in Grea Britain, and is undoubtedly in every respect the very ball made
of the Scottish Football Association, says:-"Have used the 'Perfection Football,' and find it embodies
all that its name denotes-simply, 'Perfection.
They are all filled with Mackintosh's Best Quality
Grey Rubbers, stamp dand tested.
PRICE LIST
Association Footbalis Complete
Sizes: No. 1 No. 2 No. 3 No. 4 No.
Circumference: 20 in. 22 in. ${ }^{2} 4$ in. 26 in. 28 in Perfection, Buttonless $\$ 1.50$ \$1.6o $\$ 1.75$ \$2.25 $\$ 3.00$ erfection Chrome, Special Buttonless,
Second Quality, Buttonless
\$1.50 $\$ 1.75 \$ 2.25$
Rugby Watch Bail, very superior, \$3.25
Assoc'n Rubbers and Covers Separate, ete.
No. 1 No. 2 No. 3 No. 4 No.
Rubbers, Separate \{ ....\$0.60 \$0.70 \$0.80 \$0.90 \$1.00
Mackintosh's Best
Covers, Separate
No. 1 Buttonless
No. 2 Covers.
Chrome Buttonless
\$0.80 \$1.00 \$1.35
nrome Buttonless . . . . . . . . . . . . . . . . . . . . . . . . . . $\$ 2.55$
Inflators, Brass Piston, The Little Wonder, Gocts. cloth lined, 75 cts , a pair. Foo ball Shin Pads, best leather, chamois lined, $\$ 1.00$ a pair. Rubber Cement for repairing Rubbers, 25 cts. a package. Football Boots to arrive in October. Send for prices.
"Football and How to Play it." By Kicker. Price, 20 cente. A new and enlarged edition of this book now ready, containing the latest rules for playing Association Football and valuable hints to players. cone copy will be sent Any article in above list mailed
price to any address in the Dominion of Canada or the United States. Send money or stamps by registered letter; or, if convenient, a post office order is absolutely safe. LUMBDEN \& WILBON, Import-
ers of Football Goods, Beaforth, Ont.

SCHOOL TEACHERS, ATTENTION : Ppovident Savings Life Assurance Society of New Yool

Sheppard Homans, Pres. and Actuary. R. H. Matson, General Manager
HEAD OFFICE FOR CANADA
37 YONGE STREET, TORONTO.
Cash Assets Over 2261 To eaeh $\$ 100$ of liabilities.

We want an active agent in every city, town, county and township where we are not already represente School teachers who wish to supplement their income should apply for an agency. Our plans are vor

PRICE LST OF MODEL AND NORMAL SCHOOL BOOKS. Postage prep Baldwin's Art of School Management........ . \$o 64 | Spencer's Education
Haldwin's Art of School Management........ \$o 64
Hopskin's Outline Study of Man............. 87 Spencer's Education ${ }^{7}$.........
Fitche's Lectures on Teaching. ................. o 85 Manual of Hygiene
Ouick's Educational Reformers. ...................... $\mathbf{1}_{8} 0^{7} \left\lvert\, \begin{aligned} & \text { Houghton's Physical Culture }\end{aligned}\right.$
JOHNSTON \& MUSSON BROS.,
245 Yonge Street, TORONTO

## Ye Olde Booke Shoppe <br> Inspectors, Teachers, and students can have any Book they require by

 return mail, from FRANK PORTER, 353 Yonge 8 ., Toronto. University, College, and High School Books. Books for the School of Pedagogy and Normal School积 Books for preparatory Normal School course. Send Post Card and get Books at once

## CONFEDERATION LIFE <br> TORONTO <br> New Business, 1891 <br> \$2,917,000.00 <br> Businesis in Force - - $\quad \$ 20,600,000.00$ <br> ARSETS AND CAPITAL <br> OVER FOUR and ONE-HALF MILLIONS

Premium Income, 1891


[^0]:    Grip Printing and Publishing Co.

[^1]:    The Bells of Shandon, pp. $51-52$
    2. To Mary in Heaven, pp. 97.98.
    . Ring Out, W.ld Bells, pp. 121-122,
    4. Lady Clare, pp. 128-130.
    5. L-ad, Kindiy Light, p. 145
    6. Before Sinday Light, .
    7. The Three Fishers, p. 220.
    9. To Forsaken Merman, pp. 298.302
    10. To a Skylark, pp. 317-320.

    Elegy, written in a country churchyard, Pp. 331-335.

