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# The Canada School Journal. 

VoL. III.

DANIEL WILSON, LL.D., F.R.S.E.
Prominent in tho list of Canadian teachers will alwaye stand the honoured name of Professor Wilson, of University College, Toronto, and this not more on account of what he has actually achieved than of the many amisble qualities whioh have endeared him to all with whom he has come in contact in either academioal or sooial life. Though not a native-born Canadian, no man could take a deoper, more genaine, or more practical interest than he does in all that relates to the country of his adoption, for whose name he Las done muoh to secure honourable mention amonget litterateurs and savants abroad. He has left his impress deep on the pressnt generation, parlly by means of his books and his more ephemeral productions in the shape of soientific papers on a variety of sabjects, and partly on acconnt of his abundant sympathy for and active interest in every movement designed to promote the well-being of society.

Dr. Wilson was born in Edinburgh, where he spent a very large part of his life, and where his brother, the late Professor George Wilson, well known as one of the most eminent ohemists of his day, lived and died. Dr. Wilson was only twenty-one when he determined to try his fortune in London, and he succeeded in maintainiag himself there for several years by assiduous and naromitting literary toil. He continued to depend for years after his retura to Edinburgh on his pen for a livelibood, and was a constant contributor to most of the leading literary and scientific periodicals of the day. More ambitious and enduring results of his industry are his "Memorials of Edinburgh in the Olden Time," his "Oliver Cromwell and the Protectorate," and his "Prehistorio Annals of Scotland," all of which were published long before his removal to Canede in 1858, as the result of his appointment to the Chair of Eistory and English Literature in University College.

Thr penchant he bas always manifested for archæological research soon after his arival in America led him into a series of investigations which: were conducted over a wide area, often at great personal inconvemence and expense, and the results of which were embodied in inis "Prehistorio Man;" first pablished in 1862, and twice republished since. He, has been for many jears an active member of tite Canadian-Institute, and has been soveral times appointed editor of its organ, the Caradian Journal, to the pages of Which he wis alwsye if voluminous oontributor. The other works

published since his tranalation to Canada are of a purely litorary character, the most impurtant being his "Cbatterton : a Biograph. ical Study," and "Coliban: the Missing Link," both of whioh have been favourably noticed by the lending journals of the mother land.
It is on the educational side of Dr. Wilson's life that we are at present most interested, however, and in this connection we can only oharacterize him as a teacher par excellence, not unworthy of a place on the honoured roll of the world's pedagogic celebrities. He has always taken a deep personal interest in the welfire and progress of the saccessive generations of students who have passed through his hands, and while they have profited by the new and attractive garb in which he presented to them the subjects under his charge, they have also carried away a cherished feeling of regard for one whose high moral worth was not more conspicuous than his unfailing kindness and uaffiected affability. His real for the welfare of the College has always been proverbial, and his eloquent plea on its behalf before a Committee of the Canadian Parliament will long be remembered as an earnest appeal for non-sectarian higher education. His great services Fere fittingiy/ recognized by the OntarioGovernment which appointed him a member of the Senato of the University of Toronto, when that corporation was reconstructed in 1878.

Amongst the teachers of the Province Dr. Wilson has beea almost as popular as amongst his students, very many of whom are now in charge of High Schools or departments of High Schools. When the late Council of Pub. lic Instruction wasremodelled, and the elective elementintroduced into it, he was chosen by the High Sshool maotirs as their representative, and re-elected at the close of his first year's service. During his tenure of this positic. ie laboured zealously and effectively. to bring about certain changes, some of which were accomplished at once, while others bave been carried out since the Council became defunct, and-the Education Department was placed under the immediate charge of a Minister of the Crowa.

During the earlier years of the existence of the Ontario Teachers' Association, he was several times in succession chosen its President, and at a later period he was similariy honoured by the Yonng Men's Christian Association, in which he has always takion a deep and active interest: He was practically the founder, and is still the great máanstay of the Newsboys' Home, one of the most
useful philanthropic institutions of the city, aud in various other ways has done much for the promotion of benevolent schemos. During the last fow years his appenrances ou the public lecture platform lave been fewor than thoy formerly wore, butnot very long ago his form was probably moro fnmiliar to Canadian audioncos generally than that of any other lecturer of the day. In spite of the inroads made on ajnot very robust constitution by advancing age and unceasing toil, Dr. Wilsou has lost little of his enorgotic activity oither montal or physical. That he may long be spared to fill the position the has filled with credit to himself and advantage to others, is an aspiration that will find an ocho amonget all who havo the pleasure of knowing him, and especially nmongst the members of bis own noblo profession.

## Gleanings.

Innustrial Drawin 7.-Given a hundred carpenters who bave been well taught in the eloments of drawing (for which the free public schools are unquestionably equal), and anothor hundred who have no knowledge of drawing, and the earnings of the first hundred will exceed the earnings of the second by at least fifty dollars a day, or more than fifteon thousand dollars a year. Nov what is true of the carpenter is true of the stone masin, the machinist, the timner, the locomotive builder, the shoemaker, the Finge maker, the carriage maker, the cabinet maker, and, mdeed, of overy one who constructs objects having length, breadth and thickness. Of the pupils in our public schools, a large majority of the boys at least will onter into some of these pursuits. In the face of these facts, can it be said that drawing is a study of no practical application? What other study has so direct a practical bearing on industry?
lt must be apparent that the educational needs of the time demand that industrial drawing should, every where, as has been done in Wheeling, be placed side bytsido with other fundamental studies, and be taught, as in this city, throughout the whole school course, from the lowest primary classes to the most advanced pupils in the grammar schools. Beyin at the bottom step of any ladder and the ascent is both easy and natural. Teach children drawing from the beginning of their school course, and they are taught to see intelligently, and theroby are qualified to observe, to compare and to express their kuowledge easily, naturally and accurately. Are these acyuirements of no practical advantage?
That man, whether he be manufacturer or merchant, whether he be mechanic or artizan, no matter what branch of industry he may be engaged in, who can quickly and accurately and intelligently see whatever is placed bofore him, possesses a deciced advantage over the one who does not possess this qualification. Drewing is the proper way to express what the eye sees, indecd the only sire test of what is seen. As the future prosperity of the country will depend largely upon diversified industrial development, as the great majority of the pupils of our public schools must enter into these industrial occupations, in one position or another, it seems only the part of wisdom to recognize this fact, and in our public schools so arrange the instruction that what pupils learn in their school years, will have some practical relation to the occupation of their adult years.-Dr. Huff, in Virginia School Journal.

Dangers in the Teacuing Profession.-One danger lurks in the habit of exercising authority as teachers do it. The position of supremo umpire, and the habit of commanding obedience to imperative decisions, create and foster feelings of self-importance in teachers which are apt to be fully appreciated only by themselves favorably and by others as blemishes. When once a teacher is so impressed with the importance of his own decisions, that he conatantly chafes with irritation under adverse decisions, he is evidently in the line of a deranged subjective mental state. It is a grand aim to grow up overshadowing authority possessed by self,
and thus making it serve a wise and generous discipline, but it is a and thus making it serve a wise and generous discipline, but it is a fearful state of demoralization to be wholly. under control of false
and powerful habits which divert one's oyes from the better way, and which stiffen one's limbs to walk wellgevenjwhen better ways are seen.
Anothor danger houses itself in the h.sbit of being authority in matters of scholarship. Teachers unconsciously grow, to feel that What they do not know upon this or that given susject is not rorth the trouble of telling-and hence they will listen impatiently to
the recitals of anothor, and begin an oxtonded olucidation of their own, which is calculated to amaze the unlettered, astonish the halflottered, and disgust the really educated and informod. All of this is done in the same air and tone of bearing which characterize the teacher who is stratified in this danger. The actual socioty of the world demands good listeners, modest talkors, thoso who use much learning in so gracious a manner that the hearer falls in love with it at once. This modesty which is so agroesble and ploasant in socioty should pervade the sohool-room, from the habits of the teacher. Is it not a fortunate state for the talker when, to him, his auditors sre only so many boings to astonish by his very ample information, and when his books are read only as so many milostones upon which ho, by his sharp criticism, records that he himself has gone far beyond this! The danger is a serious one, and teachers are aware of it in others !-J. I. Hoose, Principal State Normal, Cortland.
-The following is an extract from the messago of Governor Rice to the Massachusetts Legislature:-" 1 desire to commend anew lo your favorable attention the subject of industrial art education, feeling that the interests of the Commonwealth, in greater varioty than can be easily described, are undoubtedly involved therein. Displaying a degree of inventive talent which places her in the front rank of States in respect to mechanical pursuits, and exhibiting a measure of commercial enterprise of corresponding proportions, our State does not yet command the eminence in the markets of the world which she is dostined hereafter to attain, if efforts in the dovelopment of her industries be rightly directed. Her manufactures, like those of the country in general, too often bear marks of foreign imitation, or are the product of foroign designers in our own mills; while those of native design too often bear evidence of undisciplined taste and less perfect execution. Before native talent can fully supply the need in this respect, there must be a gereral advance in mechanical skill and in art-culture. A great poct or scholar is most likely to be matured in a literary atmosphero, and in like manner there must be a general diffusion of artistic priuciples, taste and practice, bofore we can hopo for that higher outcrop of ability which shall lead the way to pre-eminence in manufacturing success. But apart from the generation of extraordınary leaders, the whole character of our industries will shortly feel the influence of this training in the line of direct and profitablo advantages. The higher advancement of art education tends to the multiplication of new forms of induatry, to the enlargement of the field of romunerative labor, and to the increase of wages ; and thus it benofits alike the capitalists and the working classes in a conmunity where it is encouraged. I pass by, in this place, the discussion of the moral aspects of the caso-the elevation of taste and character which comes from contenplation and association with what is most perfect and mosi beautiful ; though that surely is of no small consideration whici contributes most largely to our purest eujogment, while at the same time it is made to contribute to our physical comfort and to the wealth of the community. To secure these results, tho normal art-school, now an assured success, is diligently working, and sending annually forth teachers whose influence is already felt, both in the elevation of the public taste and in the improved designs and commercial value of the products of our industries."

Grumblers.-We have grumblers now, and may as well content ourselves, as wg shall alwayg have them. They are for when compared with the whole population. Money for the high-school branches, money for normal schools, money for the German language, and money for public free schools of the rural districts ! The persons who are continually harping on one or more of these topics do not belong to the high, middle nor lower clesses. Thoy are an insignificant minority of conservative rich men.-Eclectic Taccher.

Crammina.- What is it but cramming, if we compel pupils to spell fiftsen or twenty thousand words, without heeding the laws of orthography, when there is but little chance that one pupil out of fify will have occasion, in all his after-life, to write above four thousand of them, and those the must common? What is it but cramming, if we compel pupils to memorize, and that, too, with little reforence to generalization, from treenty to forty thousand facts in geography, when it is well known that not more than onetenth of these facts will be remembered, or would be of any use if
they were? What is it but cramming, if we compei the pupils to nemorize whole grammars, and repeat them verbatim, while thair discriminating powers are not equal to the comprohension of one quartor of what they ropeat? Stuffing in its worst form is generally found where the fowest studies are pursued. Enough time is often wasted there in spolling rords-abracadabras to the pupils as to significanco-to give them, if thoir enorgies were properly directed, a rational start in book-keeping or industrial drawing.J. D. Walters, in the Industrialist.

Eetter Pay: Better Work.-In proportion as our toachers are permanent and well paid, can we expect the best work. In our higher schools the pay is generally fair and good, and the position somewhat permanent ; but in the thousands of district schools all over our land the pay is miserable, the work often poor, and tho position only for a few months. How can thero be much improvement under these circumstances? Our normal schools send out yea"ly many well-qualified teachers who would gladiy give a lifetirae to the work of teaching, if only they could be assured of a permanent place and adequate support. Improved methods demand time, and when the time is given free from the vexing trials of constant moving asd change from year to year, wo cannot expect to make great or sudden advancement.-Report of $N$. Y. Committee on Educution.

Manval Labor for Ladies.-The idea that manual labor is derogatory to a lady's dignity is absurd. It is based upon mere vanity, and leads to idleness and all the evils attendant thereupon. It botrays ignorance of human nature and of the prime factors of humen happiness, and is condemned alike by history and common sense. Homer tells us of princesses drawing water from the springs, and washing wath their orn hands the finest linen of their families.-M. Anagnos, Director of Institution for the Blind.

Heresies.-There is a sentiment more prevalent than we should think possible, that those schools are the best which take the pupils at the earliest age, and keep them the greatest number of hours; also, in which the pupils learn tho fastest and tako in tho largest amount of work in the shortest period of time. I need not say that these are heresics fatal to the young, who suffer the consequences in premature ducay. We desire an intelligent appreciation of the relations of study and health, and the judicious adaptation of physical strength to the work and the infuences of the school-room. -Dr. Thomas Lathrop, in Eclectric Teacher.
-Mr. Dickinson, Secretary of t $^{2}$ a Education Department for Massachusetts, sums up his opinic as of the necessities of a good school system, and says they are-irst, an educated supervision of all the schools; second, thoroughly trained teachers; third, an effective lnse, compelling the attendance of the whole schoul population upou the schools for the time the schools are requised by law to be kept; and iourth, a sufficieut amount of funds to enable achool autherities to employ the best talent in teaching, aud to obtain the best means for the teachers to use.
-"Now, Johnnie, give me a sentence containing a noun and a pronoun relating to it." Johnnie luoked up at the ceiling, and then at the floor, and finally, almost in despair, glanced out of the window. Then his countenance changed, and, pointing to some fowls in the street that could be seen from the school-room, exclaimed : "Them is hons, and they're all shes."
-It is not virtue, noris it a mark of a great mind, not to be able to be amused with any sort of game, or anything that is play. Fondness for games is a conservative element in the make up of the brain-worker, and it may be brought out in those who have never cultivated it. One cannot enjoy play-because she wishes to use all ber time in other ways. Let such an one consider that to play is to add to her time by lengthening out her years. Another has a conscientious conviction against games-I would nnt intorfere with conscience. But all should be careful to have a "gnod conscience." -that is, an enlightencd conscience.-Harriet N. Austiu, M.D., in Primary Teacher.

Suop Schooz.s. -The simplo fact that our public schools overy year turn out boys of the age of fifteen or sixteon, who from that time are of no uso to themsolves or anybody elso, becanse no one has put them in the way of being useful, ought to fix the necessity for just such a system of mochanical instruction as the Ruggle's plan contemplates. If wo are to remain a ropublican people, too, mechanical industry is to be held as a prominent condition of that stato. But now a boy blunders into a calliris instead of finding his way to it instinctively; and in the lamentable majority of cases boys never find the occupation at all for which they are adapted, but drag on to the end of their days without oither aimi or enthusiasm. It is a fatal waste of force and froshness for society. By opening the door to an honorable vocation as soon as a lad leaves school, not only is no time lost, but the comilless temptations to rice which lurk everywhere in a state of idleness are removed. Man was made to use machinery and tools. They give hin a senso of nower and dignity. Let him be introluced to a persnnal knowledge of them in early life, and the value of that whole life to himself and others is incrensed in the most wonderful manner. There could be no truer charity, as well as far-reaching policy, in making provision for the carcer of the young in usefniness to themselves and the community. Of the details of Mr. Raggle's plan we have spokon before, and recur to the subject again only to assist in keeping alive and enforcing what must souneror later be adopted as the simple duty of a civilized community.-Boston Post.

Pour Pay, Poor Teacrers.-The following is frum a communieation in the Bradford Reporter:-
It is self-evident that nu schonl can be successful without a grod teacher; and the only way to obtain a good teacher is to uffor a reasonable compensation for his services. We will see the reasonableness of this assertion when we consider that a person who is qualified for teaching school is also qualified for almost any kind of business; and the same qualities of mind and character which make him a successful teacher, will secure him success in almost any occupation in life. The successful teacher must be well advanced in the science of learning; he must be able to tell or convey to the minds of others, that which is contained in his own mind; he must have tact, patience and perseverance; he must ba a moral character; he must bea person of decision and energy; and he must excrcise a lively interest in the success of his efforts. Merit is, and always will be, rewarded ; character of genuine stability, and principles of sterling worth are, and always will be, in good demand ; and a person possessing such qualifications will nevor experience may sericus difficulty in obtsining employment and a liberal compensation for his labor. The iuea that a reduction of salary would lessen the quantity and thereby better the quality of teachers (to use a fignrative expression) is absurd in the extreme, while an opposite course would most effectually accumplish the latter, if it did nut the former. We cannot help expressing our surprise at the course pursued by those in charge of our school matters; for in our candid opinion a more hurtful and ruinnus plan to the cause of education than the one already adopted, could hardly have been thought of. Do we plead hard times? Do wo compare the worth of human minds with the size or contents of our pocket-bonks? Heaven sare us from the thught! We beliere that if school boards would offer a salary of one hundred per cent. in advance of the present rates, the benefit received from the school would double the extra outlay.
When this is done the position of schoolmaster will be ono worth striving for. When the inducements are sufficient, there will be no lack of competent teachers. As the teachers' wages have heen reduced, there has been an incronsed number of applicants for the schools; and this, matead of proving that the course pursued is a judicious one, simply proves the opposite. As the salaries have been reduced, teachers who could command large salaries have left the field, and the racancies thus made have been supplied with second-class teachers. Consequently, those persons who will never be able to command gond positions, whose talents will always be second or third class, come into better demand.
-The Higher Schools exhibit poor economy. We have too many colleges, and hence, too many poor oncs. Money is fixed in piles of brick and stone, while men are wanting-and professors starve. A atrong professir in the racitation ronm is of more account than tall chimneys and towering domes.-Pres't H. W. Everest, in Ameriran Journal of Education.

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Recommended by the Minister of Education for Ontario. Recommended by the Counctl of Pub.ic Instruction in Quebec. Recommended by the Chief Supt. of Education for Nuw Brunswick. Recommended by the Chief Supt. of Education, British Columbia.

TORONTO, JUNE, 1878.

## VOLUME TWO.

The present number of the Journal is the first of the second year of its existence. At the suggestion of some prominent educators in different parts of Ontario, the publishers decided one year ago to undertake to issue, what was universally acknowledged to be a necessity, a live journal devoted exclusively to educational matters. Believing that one of the Provinces of the Dominion was not sufficient to support such a paper as they desired to publisis, the publishers endeavored to make the Journal truly Canadian in its character. They aimed to secure this end in the selection of its name, and by appointing a special editor for each of the Provinces of the Dominion.
The success which has followed their efforts has far exceeded their most sanguine hopes. On the appearance of the first number the Journal of Education, and the Home Companion and Canadian Teucher, the two educational papers of Ontario, voluntarily retired in favor of the Journal. In every Province of the Dominion it has been warmly commended by the highest educational authorities, and has received large subscription lists. In the city of St. John, N.B., alone, it has over seveuty subscribers. Subscriptions have also been received from most of the States of the Amencan Union. The publishers tender their most sincere thanks to the Pubhe School Inspectors, High School Masters, Model School Masters and teachers, who have taken so kindly an interest in extending its circulation. They also desire to acknowledge the many valuable suggestions, which they have received in regard to the method of conducting the Journal so as to render it most useful to teacuers, trustees, and otiers interested in educational matters. It is their intention to spare no pains to seoure a continuance of the gradual improvement which has characterized the Journal during the past year. The experience of the year has not been lost, and it is with the fullest confidence that they assert, that in every department they intend to advance. The Journal increased in size from twelve to eighteen pages during the first year of its existence.

The curront yoar begins with a number containing twonty pages of reading mattor, and the prospect is that it will be still further enlarged. It is the desire of the publishors to devoto a larger amount ofspace to local news, personals, \&c. ; and they extend a cordial invitation to all to sond them any itoms of interest in connection with school matters in their various localities.

## PSYCHOLOGY IN NORMAL SCHOOLS.

A man must pass through a long and difficult course of study, and obtain a certain legal standing, before he is allowed to practise medicine. If he attempts to do so without obtaining his degree he is named and treated as a quack. In his course he has to take several departments of study which may be summed up under three heads: (1.) The human body, the thing to be denlt with; (2.) The medicines to bo given in practice; and (3.) The practice of medicine, or the method of using those substauces as medicines, with which his chemistry and botany have made him familiar. He has to study the thing to be cured or kopt in a healthy condition, the things with which these ends may be secured, and the method of using these so as to produce the desired effect.
A good druggist understands the last two departments of the work, both theoretically and practically, much better than physicians generally do or are expected to do, yet if the most exporienced druggist in Ontario were to advertise himself as a physician he would legally and socially be regarded as a quack. If $\{$ parent describes the symptoms of his sick child to a drug. gist, even the best in the country, or is he takes the child to the druggist for examination, and the druggist prescribes for the child, he may bo prosecuted for practising without a degree. Children have minds as well as bodies, but while the common sense of societyand thelaw of our country are carefulininsisting that he who deals with the body must have a knowledge of the body itself, neither society nor the law in this country have yet demanded a similar aoquaintance with his subject from the person who practises on the mind. Up till a recent period the teacher only needed to be acquainted with one of the three departments of study corresponding to those required for a physician's degree. He simply needed to understand what he was going to teach, and was not asked to take any course of training to ehow him how, best to communicate to otbers the knowldge he had acquired, or to study in the slightest degree the nature of the objects with which he had to deal. The Minister of Education has added another department to the work of the teacher. He has now to study method as well as matter; he must pass his professional as well as his non-professional examination before receiving a certificate of his ability to teach. : Bat even with all that is now required of him he is simply a draggist; he undorstands his medicines and how to use them to a certain extent. The medical student, however, does not study medicines or the prantice of medicine until he knows something of anatomy, physiology, \&c. He could not do so intelligently. Neither can the teacher intelligently study methods of teaching without some knowledge of the mind and the leading laws
of its development. Pedngogics is dependent on peychology for an understanding of that on which it is to operate.

The lending Normal Schools of the United States have, for some time, made the study of psychology one of the most important of their course. The subject is given to the best educator on the staff. The study of the subject in Normal Schools is regarded as a matter of course, and has produced such good results that it is now proposed to introduco it into the Universities. The proposal originated with Mr. Adnms. He says:-
"The most tangible point at which to bogin is Garvard Collogo. You ahould put that grand old institution into direct and immodiate communication with the common enhool system of Masisaohusetts. How do we unite garvard with tho bar and the pulpit? By post graduate courses; by schools of law and theology. Xou should secure a post-gradunte conarse, witia a professorship of common school education, at Cambridge. Then you will secure your staff, your head minds, to direct your trained line-officers."

Anothor American educator, referring to the proposal of Mr. Adams, writes as follows:
"The suggestion of Mr. Adams that Harvard University should at once establish a ohair of pedagogics was excellent, and would apply to every colloge in the country. One of tho chief hindrances to the growth of correct methods of instruction is the poriodical launching of college groduates, utterly untrained in the pedayogic art, into posts of authority as principals of grammar and high sch rols, to give the law to tonchers educated in our best normal sominaries, and qualitied by long oxperienco in school wurk."

There is much force in the above remarks, and we in Ontario are well supplied, in our Proviucial University at least, in the matter referred to. The lectures of Professor Young are invaluable to those studencu who intend being educators of the youth of our coustry.

It is to ba hoped that the Minister of Eduontion may soon be able to introduce into the Normal Sohocls in Toronto and Ottawa a courso of lessons on Psychology for first class students at least. First class men are to become (many, if not all of them) the Inspectors and Model Sohool masters throughout the Province. It is therefore of the lighest importance that they should be thoroughly taught the nature of what they have to develop, and the laws that govern its growth.
-We are pleased to be able to give our readers in this number the first of a series of articles by Mr. C. P. Mason, B. A., F. C. P., Fellow of University College, London, author of the English Grammar so well known in Carada. The subjeot seleuted by Mr. Mason is a very practical one, and a careful reading of his articles will be sure to do much towards securing greater socuraoy in teaching the elementary principles of grammar.
-The Provincial Teachers' Convontion for Ontario meets in the Noriaal School, Toronto, on the 18th of August. A very inte:esting programme has been prepared, which will be given in the next number of the Jourasal. All teachers wishing to attend should secure certificates from the Prorincial Sohool Inspectors before coming, to enable them to obtain reduced railway fares. These certifioates must be presented at the commencement of the journey.
-Dquid Allison, LL.D., onters upon the duties of his new position, as Chiof Superintendont of tho Sohools of Nova Scotin, during the presont montl. He has our best wishos for his complets success in his now sphere.
$\mathfrak{C o n t r i b u t i v n s ~ a n c ~ C e ~ c r e s p y o n d e n t e . ~}$
CURRENT MISTAKES IN TEACEING ENGLISH GRAMMAR
BY O. F. JSABCN, ESQ., B.A., F.O.P., AUTHOR OF MASJN'S ENGLISH GMAMMAR, \&O.

## I.

The subject of tho following remarks has, unfortunately, no protensions to the oharm of novelty. Must of you have probably been hammering away at English Grammar for years, and some perhaps will have to do so fur several years to corno. My humblo ondeavour will be to holp such to m ake their strokes as telling as possiblo, by showing them where and how effurt is commonly wasted. For several yoars past I have had a good deal to do with tho examination of pupils in schools, and oandidates who have not long left school, more particularly in the department of Euglish Grammar, in which subject many thousands of sots of answors Lave, from first to last, come under my scrutiny ; and, considering how important a part ox minations play in our modern system, (whether ther aro to bo lookod upon as a great good, or as a necessary evil.) I thought that it would not be uninteresting to those who, to a greater or less oxtent, are ongaged in praparing pupils for the ordeal, if I gave them some of the results of my experience, by setting bef ro them the kind of mistakes which candidates most commonly make, and the way in which they come to make them. In doing this I shall not be able to avoid critioising a good ceal that is very comminly taught, and showing that the unfortunate bunglers have not meroly gone astray, but have beon led astray by what they have been made to learn.

I need hardly say that the reaching of Eaglish Grammar is something widely different from the teaching of, 6ay, Latin or French Grammar-at least, to Canadian boys. In Latin, and even in French, (as far as the verbs are concerned.) you have to get your pupils to comm't to memory a great apparatus of inflections, rules for furming geaders, rules fur various concordy, rales for the caseg to be put after prepositions, \&s. All this is material of a very concrete character, and, though troublesome to master, does not, in the first instance, call for muoh begond observation, comparison, and memory. English Grammar is quite different. We have bardly any infleotions; a mistake ajout the agreemont of an adjsotive with a noun is impossible, ad adjoctives do not mark gender, number, or case; and, as ragards such infleotions and concords as we have, the learners know them aiready. You never really have to teach a boy or girl to furm the plural of brother or na an, or the past tense of be or go. In teasiaing Eaglish Grammar you introduce your pupils at once to the most abstract conceptions, the functions of words, the nature of the parts of speoch, the 1 m port of inflections, the relations of words to one another, aud so on. You begin at once a logical training of the most refined oluarsoter, the main object of which is, or shoull bo, to disciplne the facnlties in habits of olear and close thinking, and the perception of the relations of ideas ono to the other: and so, through the medium of English Grammar, yon put, if Imsy so say, a grammationl soul into that bodily organism of forms and infloctions. to which you mainly direct your attontion in the grammars of other languages. English Grammar is from the first a system of logical anslysis and definition.

Now, I am sure I should be wasting time if I set myself to prove at length that, if work of this kiud is not dono well, it had better not be attempted at all. It is not merely useless if done ill, it is positively injurious. Nothing but harm can come of slovenly aunlgsis and inexact defiuitions. The mind gete inured to habits of loose and innccurate thought, which, whon once acquired, are most difficult to orndicate. No donbt it is difficult to be accurate, but it is not impossible. Eron young children may be lod to grasp tho elomentary idoas iuvolvedin grammar with porfoc nrecision, provid d those :doas are presonted gradually, simply, and exactly; and I protest most earnestly against the notion that it is fussy and podantic to strivo aftor this scrupulous accuracy, and that rough-and-roady deu itions do well onough to begin with, and will be graidually shaped into what is more accurate as the pupil gets on. You sould not expeot that to be the rosult of giving loose and inaccurate rules in arithmetic, or of allowing a beginner in geometry to prove his propositions by means of a pair of compasses. And I assert, as a matter of fact, that the result of letting pupils learn locso and inaccurate definitions betrays itsolf at overy large oxamination by a plentiful crop of answers from caudidates who have been at English Grammar for five, six, or even seven years, which oxhibit not merely abject aud contemptible ignorance, but (so co speak) a sort of geveral sloppiness of mind, and an utter incapacity for writing English in an iutelligible, coherent, and grammatical form.* On the other hand, I have invariably found that clear and evact answers about grammatical definitions go along with clear and grammatical English composition.
f. My special purpose a $\ddagger$ present, however, is to point out some of the commonest errors which vitiate munh of the grammar teaching that goes on in our schools, and appear ic such ludicroua forms at evory examination. I hope nc on: will think that I am "poking fun" when I say thial the greater part of these mistakes would have been obviatad, if the writers of the gremmars which are most widely used had been able to grasp the nut very recondite truch, that words are not identical with what they stand for-that the noun 'book' (for instance) is not the article mande up of printed leaves fastened together, which wo buy at the boosseller's; and that when we buy one of theee articles, we do not purchase a part of speech. Is any one present disposed to dispute this? If so, I hope no feeling of bashfulness will hold him back from having a tussle about it, as soon as I bave finished my paper. It would take muoh too long to chase this really childish blunder out of all the grammatical nooks and coz=or? in which is lurks. I shall content myself with giving you a few typical instances.

Did any of you, when very little boys and girls. ever learn some rhymes about the parts of speech, written with the siow of aiding the budding intelligence of infant minds, and some of nitica run somehow thus-(I am not sure about one line):
"First comes the little particle
Grammarians callan Article,
And then the mighty Noun.
A noun, it may ba anything,
A tree, 8 castle, or a king,
A person or a lown."
Here you see the absurdity above referred to in full force. The ghost of this innocent little effusion still hannts the examination room. I have a dreary presentiment that within the noxt six months I shall be told hundreds of times, as I have been told during the last, that a common noun is "some thing that belongs to a

[^0]class," and that "nu abstract soun is some thing that you oan't 800 or hear or feel." This last ronderful nbsurdity has beon rathor a favourite of late. When it has been given viva eoce, a littlo colloquy of the following kind has sometimes ensued berweon mysolf and the examinees. "Is goodness an cbstract noun 9 "-"Yes." "Did you bear the worl? "-"Yos." "But you told mo just now that an abstract noun was something that you couldn't hoar." l'uzzled silonce for a mumont or two. Then, from some ohild a little sharpor than tho rost, and not impossibly a little sharper than the tencher, - "An abstract noun is the name of something that you can't see or hoar." "Very well, let us rry. Is brightness an abstract noun?"-"Yes." "Can yon soe the brightness of the sun?"-" Yos." "Then how can brightness be the name of some. thing that you can't soo? But now, did you ever hear of a quality 2 "-" Yes." "Toll me a quality of sugnr."-"Sweetness." "What quality makes mo call a man good?"-"Goodness." "Very well, sweetness and goodness are abstract nouns. What are they names of?"--"Qualitios." "Now name to me some action.""Jumping, motion, fight." "Those too are abstract nouns. What are they names of?"-"Actions." "Now tell me a noun that denoter a state in which a perzon or a thing may be."-" Sleep, life, death." "Good, those also aro abstract nouns. Now put all that together, and tell me what an abstract noun may be the name of." The answor will come promptly from a dozen at oncu-" An $a^{2}$ stract noun is the name of a quality, or an action, or a state." Is not all this within the comprebonsion of the youngest child who should be learning grammar at all? If so, is there any excase for cheating the intelligence of a beginner with the rabbich that I quoted before?

While on this point I cannot refrain from pointing out the worthlessness of a definition of abstract nouns which is mort frequently given at examinations than any other; namely, that "an abstract noun is the name of anything which we only concujve of in our minds as having a real independont existence." Now, as only is not a negative, this definition involves the assumption that we do concrive of that for which the abstract noun is e name as having a real independont existence. But this is palpably absurd. You cannot conceive of motion, for example, as having a real independent existence apart from something that moves. You would con. tradict yourself in the attempt. That which has an independent existence of its own annot be an attribute of something else. We may fix our attention upon the attributs without thinking about that in which it is inherent. But we onnnot abstract an attribute in the complete manner in which a thief might abstract my watch. The definition is lame enough as it stands. Bat coniusion gets worse confounded when examinees leave out the word only, or, reproducing that irreprebsible blunder abont words and things, tell ns that an abstract noun is "something that we cenceive of as hav. ing a real indepondent existence."

Of course this blunder is extended from nouns theminelyes to their accidents. I suppose most children might be mede whih a little pains to comprehend that sex (male and female) is a distinc. tion between classes of animals, and that gender (masculine and feminine) is a distinction between classes of words. At present any question on the subject is sure to elicit in abundance such replies as the following, which I quoto verbatien:-
"Ser is the difforence between animels, gender is the difference betweon things."
"Gonder is applied to one individual person, and sex to a collection of persons."
"Sex is applied to living beings, aud in a singular sense; gender in a plural sense, and also to inanimate objects."
"Gonder is tho inflection of a noon as regards thinge, boz is tho inflection of a noun as rogards living boings."
"Sox is the distinetion between male and fomalo persons, gender between malo and femalo animale."
"Gender is the distinction of sex," or, as I was resontly told, "there is no difforence betweon sox and gonder, they both mosn the same." Thero is a sort of courage about that answer whioh greatly commends it to my liking.

With how little refiootion the usual lista of masouline and feminino nouns aro often committed to momory and ropeatod, you may judge whon I tell you that, along with the orthodox uncle, aunt; bachelor, spiuster, \&o., I have had masoulino hill, feminin, valley; masouline church, feminine chapel,-a viow of the relation befreen Charohmen and Nonconformists whioh might saggest some curious refiections, and is at any rate worthy of a boy in a woll-known suburban college, who in interpreting a certain passage of poetry, explained "musio that the mecting soul doth pioree," to mean, " music suitable for a dissenter."
As regards the cases of nouns, I am afraid that many hundreds of unhappy ohildren are still taught that the nominative doos something, the possessive owns something, and the objective has somothing done to it. If, as I fondly hopo, I have carried your judgments with mo whon I insist that when I sny, "Tom kioked Hairy," I do not mean that the noun or name, Tom, administered the kiok, a priori you will agree that a mero form of a noan, a cass, cannot do that which the "mighty noun" itself is incspable of achieving. Only fancy the form of a noun, a possesaive case, being the owner of a house or a dog. No doubt the inventor of this wonderful specimen of definition plumed himself upen having turned out something remarksbly neat and telling. He cleserved to be terned into an objectivo rase himself, that he migh' $1 \times \mathrm{xec}$, ence, not in word only, what it was to have "something done so him,"

One of the most egregious and exasperating inetances of this nover-ending confusion between words and what words stand for, is atill to ve found in one of the most-largely used English grammars (I don't wish to mention names, but see p. 81 of the last edition), and in scores of grammars based upon it, especially those little twopenny "dreadfuls" which simplify grammar for amanl children. It comos up in hundreds and handieds of answers at examinations. We are told that "adjeutives expreps the qualities of nowns," i.e. of names. So that "a tall man" means that the noun or name "man" is tall; "red rose" meatic inat the word "rose" is red. There is no possibility of wriggling ont of this conolasion, absurd as it is, if you accept that precious definition. I $0 a n^{\circ}$ fanoy the writer saying, " Oh , you make suoh a inas about trifes; of course, I meant that the man was tall, not the noun." I could only reply, "Then, if you meant what is right, why on earth did you say what is wrong? And what but harm can come of setting ohildren to learn what is palpably and ridiculously wrong? It is but a variation of the same confasion when wo are told that "an adip ative is a word added to is noun in order to mark or distinguish it more acourately." Distingaish the noust? From what? You can only distingaish a word irom a word; from what other word is the noun rose distingaisied by the edjective red $\%$ Mark the noun? Pray how? Does it give a peouliar shade of meaning to the noun? What logicians know as the connotatitn of the vord rose is not affected in the alightest degree; 扎e adjective does not mark the noun, it denotes the quality thit marks tho thing. In trying to refine upon a defixition whioh is radicully bad, Dr. Abbott, in his "How to toll the Parts of Speech," and "How to Parso," makes matters atill worse.* Eie tell us that an adjective

- In thla papar I havo ativen, minnoh as posedble, to arola mentioning
is a word that can bo pat bofore a noun either to distinguish it or to enumerate it-that is, to $f$ it out its number or acmount." What? the number or amouni of the noun-the name? In three ment how does thrce enumorate the noun meen, when thero is only one noun? "Why, it inlls you Low many men thoro are, dossn't it ? "-_" Cortainly, but I was told that it onumerated the noun." "Well it's the same thing."-"Ah, that's whore you make the mistatco."

Natury lly, this confusion betwoen word and thing appears in force whbi definitions of tho comparative and suparlative degrees of adjeotives are attompted. Here are some samples or a good deal that I have seen of late:-
"Comparative is one of two things, and superlative is one of three things."
"Superlativo dc $c_{\sigma}$ ree is the highesit an adjoctiva can go."
"Comparative degree is when the adjoctive is more so, and suporlative most."
"The supeslative degreo expresses the greatest saporiority an adjoctive san have."
"Superlative degree is the adjective extending the noun to the highest degree of comparison sbove every degree."

Questions about tranaitive and intransitive verbs always bring out a plentifal crop of mistakes, based upon this all-pervading confusion between words and that which thoy donote. The nnfortanate examinees have been led astray by their grammars. I fanoy no one present will dispute the accuracy of what I am going to say. In the sentence, "John struck the horse," we have a word, a transitive verb, which denotes an action; we have a word "John," which denotes the doer of the action, and forms the grammatical subjeot of the vorb; and a word "horse," whioh denotes the object of the action, and forms the grammatical object of the verb; tho verb is a word, its subject is a word, and its object is a word. Well, then, it must ba sheer nonsense to say that the subject of the verb-the word John, mark you-is the door of the action. It must be nonsense to talk of "the action of the verb." Verbs, words have no action; they do not walk or strike or kiok. They denote action, bat that is quite another thing-the aotion is the action of the agent, not of the verb. The blow proceeded from the person John, not from the word "struck." Lastly, the aotion is directed not to the word harse, which is only the grammatical object of the verb, but to the animal denoted by the word horse. It is the animal which is the object of the action, not the noun. It is unfortunate that the word object is used in this twofold senso-for the thing which is the object oi the aotion, and tio word whioh is the grammatical object of the verb,-but we cannot now help ourselves. Is it possible to diapute the truth of these statements? But how do our common grammars put the matter? Ona already quoted snys,-" When the subject of the verb is the doer of the action, the verb is autive; bat when the sabject of the verb is the object soted ryon, the verb is passive." So that a woid, a part of a sentence, can be either the giver of a blow, or the receiver of a blow! Now for the same blunder pat the other way. "Verbs which take two objects in the active voice, one of tha person and the other of the thing, can be put into the passive voice, with the persor as the subject, and the thing as the object." Only think of a person-a man or a boy-being part of a sentonce, and forming the subject of a verbl Ts it not irrational to call this grammar, and what but muddle and confasion cen come of learning anch stuff ? Do jou rish to sso how the thing porks? Talse the following, which I quote, noi as exceptional blunders, but as typical of innivortoraco.
specimens of naswere that I have had by hamdrede within these few monthe:-
" $\Lambda$ verb is in the passive voice when the object of the verb is really the subject, and the subject of the verb is really the object."
"Artive roice is the agent passing to the olject, passive voice is the olject passing to the agent."
"A trmasitive vert is oue that passes over to an object."
"A verb is transitive when the subject passes to the ohject."
"An netive verb is a verb which does somethi. Ig; a passivo verb is a veb to which something is done."
"A verb is in the passive voice when it acts upon the subject."
" A direct object is that which acts immediately on the object from which tho action proceeds."
"All intransitive verbs show that the subject does nothing."
"A verb in the active voice is one in which the subject makes the active verb act upon tho object ; a vorb in the passive voice is one which makes the object aet upon the subject."
(To be continned.)

## NOTES ON EDUCATION IN GERMANY.

by h. a. bayne, m.a., phid., halifax mion school.

## (Contimucel.)

The Realsihule (Real School) is the designation for the second class of higher schools in Gormany. These are of comparatively modern origin dating from the second quarter of the present century. Various futile efforts had been made in the two previous centuries to reduce the preponderance of the ciassics and to make the instruction of the Secondary Schools more directly practical and useful. It was only, however, in the ear!y part of this contury that any considerablo success attended these efforts. Johann Haecker, a Lutheran clergyman, established at Berlin a school which about 1822 began to work thoroughly well. Shortly after this date the Prussian Goverument took up the matter, and with the increasing demand for more practical instruction it set about organizing a series ot schools on a new basis. These schools were of three grades; Real Schools of the first and second rank, and so called Higher Burgher Schools.

The Real Schools of the first rank still make the study of Latiu obligatory, and a considerable portion of time is devoted to it. On the other hand, Mathematics and the Sciences assmen a much more prominent place than in the Gymnasium curriculum. Although the object of the leal Schools is to give such an education as fits for business rather than for the University, still it is aimed to impart as muci as possible a general and uot a professional education. This is indeed the ambition of all the German Higher Schools.

The Real Schools of the first rank have, omitting Greck, much the same arrangement of classes as the Gymnasium, a rather larger number of hours of school attendance weekly than these, however, and a complete course of nine years. English and Fronch are each compulsery. In the Real Schools of the second rank Latin ceases to be a compulsory study. Moderu languages, Mathematics and Science, with Geography and IIstory, divide between them the thirty hours of weekly study. The course in this grade of schools may $l_{c}$, and often is, reducod to seven years. The third class of schooks representing this "modern side" of education, called Higher Burgher Schools, differ from the Real Schools, simply, in not possessing the complete systen of six forms. In most schools of this grado there is no prima, in many no secunda.

As has already been stated, Germany, like western Europe, did not possess, until the beginning of this century, this series of schools. She knew only of Primary and Latin schools, the former
affording nu elementary instruction more or lens extensive, the latter fitting young men for University stasly, and boing frequent. ad almost exclusively by the children of the better class of suciety, the chass in possossion of the wealth and influenco of the period. The instruction provided was mapted to a state of civilization in which the middle class had not yot attained the importance which, by ilegrees, the progress of commerce and industry has secured for it. In a course of stady almost exchasively occupied with the ancient languages and literature, this rising class did not. find an alequate prepratory training for the differeut professional carours of life to which it destined its sons. The substitution for the study of Creok and Latin of somothing more suitod to prachavl life, a course more scientific than literary, found very general acceptance, and to-day the number of Real Schools in operation in Germany is about equal to that of the Gymnasia, and the attendance upon the two is about equally divided.

These three, then, the Gymuasia, the Real Schools and the High Burgher, form the Secondary Schools of Germany. With but little difference the same class of schools is found in South Germany, in Austrin and in Prussia; they number in all about 1,100 ( 600 Gymnasia and 500 Roal Schools) are attonded by about 200,000 students, aud are equipped with a staff of 18,000 toachers. The population of Germany and German Austria combined is about fifty millions. There is thus on an avorage one out of every 250 , or 0.4 per cent. of the population, enjoying the advantages of a secondary education in these countries, a larger per centage than any other country can boast of.

## GRAMMAR.

by J. a. m'cabe, m.a., princtpal normal school, ottawa.

## (Introductory.)

What grammarian or philologist has not heard of John Horne Tooke? Has not heard of his "Diversions of Purley?" It is safo to say that in his time he caused as much trouble in the grammatical world as he did in the political world. Indeed his theories on certain points of grammar still trouble suthors and editors of works on this subject.

One episode of his life is particularly interseting in this connection. He was indicted for writing and publishing " a cortain false, wicked and seditions libel, of and soncerning his Majesty's Government." On the trial a verdict of guilty was returned; and a question was raised by Tooke-first, on motion in arrest of judg. mont, and afterwards on a writ of error in the House of Lords, whether the writing contained in the information, in point of law, was sufficiently charged to be a libel upon his Majesty's Government. The decision was in favor of the Crown in both cases. And in $a$ letter which Tooke wrote frow the King's Bench Prison, he tells us that he was "the miscrable victim of two prepositions and a conjunction."

I wonder how much thisevent had to do in bringing a statement of his which has since passed into a proverb: " though grammar be usually am ingst the first things taught, it is alweys one of the last things uncierstood." Not very long ago examples of the truth of this observation pere bat too common. Hew is it to-day? A marked improvement on "old times" is seen; but there is room for more. And as a modern writer, criticising Tooko's statement, says, "this arises, not so much from the difficulty of grammar, as from the injudicious methods generally employed in teaching it." Want of proper method has been

A gulf prolound as thets bonian bor
Botwixt Dawinta and Mouut Casius old
Where armies whole have sunk.
We all know the old plan. As soon as the pupil was able to read-indeed, frequently before he was able to read with ease or profit tohimeolf-the text-book on gramamar was placed in his hands. He had then to wade through (to him) ummoning defuitious of " grammar" and of its "four parts," wade through other definitions, principles, rules, exceptions to rules, evory step more paiuful than the proceding one, until, inthe end, if his mind were not unfited for ever from renlly underatanding the true nature of grammar, it would be surprising.
Further on I shall state my views as to the proper method of introducing the subjeot of grammar; but here I may say that if, in any subject of schoul work, it is inportant to begiu well, iu none is it more so than in this under considerntion. If we place a text-book on geography in the hands of pupils just beginning the subject, and beforo thoy have had any oral instruction thereon, harm in a certain degreo will result to their muntal powers. The same may be asid in the case of arithmetic, history, \&c. Even moro so can this be said of grammar: and the incorreat notions obtained from the text-book will be even greater in the latter case than in any of the former.
This is due partly to the nature of the subject, and partly to the manner of treating that subject in the usual text-books on grammar.
No work is more difficult to write than a good elimentary grammar, except, perhaps, a good elementary " reader." The difficulties placed in the way by text-books I will speak of first, and then turn to methods proper in teaohing this hrauch of school study.
It should not be difficult to teach grammar properly. For, what is grammar? The usual definition is something like this: " grammar is the science which teaches us the correct use of language in speaking and writing." It sooms a simple thing to accomplish after all. Then in trying to attain this very plain end, what benefits will the pupils experience ly repeating, in the very earliest stages, this definition-in repenting that the subject is usually divided into four ${ }^{\text {'arts, orthography, etymology, syntar and prosody, }}$ and that each pay' is so and so? Just fancy a new beginner trying to swallow, its bis first grammar lesson, that syntas treats of the proper collection and relation of words in sentences; that prosody treats of the accent and pronunciation of words and the laws of classification. How refreshed he must feel, in mind particularls, after suoh an effort as this. But, after all, what is grammar? Whitney. in his "Essentials of English Grammar," has taken " $a$ new departurs " in this matter, and in my miad with much advantage $h$ definition learners. He says, "Grammar does not at all make rules and laws for language; it only reporta the facts of good langaage, and in an orderly way, so that they be easily referred to, or learned, by any one who bas occasion to do so. Nor is the study of the grammar of one's own native language by any means necessary in order to correctness of speoch. Most persons learn good English in the same way that they learn English at all, namely, by hearing and reading, by hearing and imitating good speakers, by studyng books written correctly and well, by correcting them. selves and being corrected by others, and so on." But Whitney shows the true place which the text-book occupies in this study; and as the works in use-with a few honorable ezceptions-are to my mind faulty in many ways, I will close this introduction by stating my oharge against them, the disoussion of which I shall enter upor in another paper.

My charge is this: The definitions in common use don't accurately define the terms they are intended to explain; the principles usually laid down are often involved in muck obscurity by being stated in unintelligible language; and erroneous statements are often given as correat theories.

VISIBLE SPEECH -THE SCIENCE OF UNIVERSAL ALPHABETICS.
by Jayes f. bitrbank, salbsy, mass.
In the year 1864 Professor Alex. Molville Bell, F. R. S. S. H., discovered the principles of the universal Phonetio Alphabet, and shortly after invented a sot of Physiological symbols, in wheh all languages can bo written.

Ordinary letters havo no relation to sounds. The associations are entirely arbitrary. That whioh we call $I I$ is the vowel $E$ to the Greeks and Russians; our $P$ is their $K$; our $E$ is $A$ to tho Frencl, the Italiane, and many others; our $I$ is their $E$, and our $A$ is their Ah. Besides this interaational diversity, a variety of sounds are often associated with a single lettor in the same language, and no alphabet contains a single character for each sound. In this respect the Fugish language is very imperfect. We havo various sounds represented by the single letter $A$, as in the words take, art, hall, ask, and hat. We also use the letter $E$ to represci,it various soundo, as in the words be, net, her, etc. We have other letters, as $G$ and $S$, each representing more than one sound. In tbo alphabet of Visible Speech every letter has a fixer phonetio value, which is the samo in all languages, evory sound sown appropriate symbol, and every part of every letter har a definite physiological meaning.

In Visible Speech the character or symbol used to represent the sound we call $P$, indicates to the eye that the lower lin is shut against the upper lip, and that this position is immadiately relaxed with an explosive puff of breath. For $T$ the point of the tongue is raised against the upper gum, entiroly closing the mouth passage, and immediately relased with a puff of breath. For $D$ the position of the tongue is the same as for $T$, with voice sounded while the position is held. For $M$ the lips are closed, as for $P$ and $B$, voice escaping through the nasal passages while the lips are thus held.

During the summer of 1864 Mr . Bell's system was tested by many scientific and literary men of Great Britain, and commise:uncrs from the principal European nations, to the entire satisfaction of all. Mr. Bell demonstrated that in his alphabet could be written any language or dialect, and any one understanding the mechanism and use of the symbols conld pronounce with vernaonlar precision any language written in these symbols, though he did not understand the meaning of a single word ho was articulating.

His experiments were made in the fol swing manner: Mr. Bell sent his two sons out of the room. Dik rent languages and provincialisms were then pronounced, and Mr. Bell wrote them in his symbols, then some affected speech and mispronounced words were given, which he also wrote with equal facility. Mr. Bell's sons were then called in, and they prononnced whatever M:. Bell had written with perfact satisfaction. The accent, tone, indistinctness, and all the peouliarities of pronanciation were reproduced with surprising accuracy.

It is impossible in this artiole to discuss the possibilities of the invention of Visible Speech. The following are a few of the uses to which it has been applied: "the teaching of deaf mutes to speak; the exact pronunciation of foreign languages by learners; the establishment of a standard of the native pronanciation of langaages; the prevention and removal of defects and impediments of speech; Christian missions.
The following is a speciment of Visible Speech typography. "Symbols for representing sounds in all languages":


## To the Eiditor of the Canaide School Journal.

Sir,-In their daily work as educators of the young, teachers often aneet with diflicultes in the way of obtaning clear ideas on obscure points of the works of authors that come up for consideration. Works of reference, no matter how plenty, will often fail to give the real help wanted on the subject. These works of refarence often rumad me of an edutom of "Enaclid" which I staded. After recriving trom the text-book certain Explanations regarding a proposition or a dedaction, I somethmes found what to my mand was a much more obscare deducthon thanany precedag, doalt with in the followng way-" From the foregoing it is manifest that, Ec.. Sce." The matier was selled thus; and I often wished that the editor did take mo consideration that beginners in the gubject might not be able to work ont the conclusion songht, by being told it was " manifest."

Among the many useful purposes which the Canada Scrool Jovasal. s.rves and will serve, there is an important one in connertoo with the ideas put forth above. It will be m such cases a live work of reference; and will not pat us teachers ofi with the amouncemeat that the matter is so "mamfest" it neods bo explanation.

Presumme this, I desire to ask the aid of its editors, or of its many learned contributore, in umravelling what seems to ne a yet uncephand mystery in a few hes from "Macbeth." Thoy are hese:-

> Macl.-Pritheo, peace:

I dare do all that may lecome a man;
Who dares do more is none.

> I.ady M. What beast was't then

That made you break thisenterprise to me:
When sou dida't do it, then you rere a man;
And to be more than what you were, yon mould Be so much more the man.
The words requring explanation are in italics. Another reading substitutes no for lo, and boust for beast; but that given abose is the usual trxt. and one wheh ss now almost universally accepted. The dea of the majority of critics on this extract is seen in the frllowing:-"The fulo has 'numire, Mr. Huater would retain 'no more' and mak' Macbeth say 'Who dares no more is none.' (Br the way, Mr. Hunter has since changed his opinion. Beast is of course used in oppositun to ' man.' spoken of by Macheth. MIr. Collier's MS. currectur's 'herat,' is utterly inadmiss:ble." This commentary 1.. from Clarke \& Wright. Again, we find another critic say:-"It has been confilently proposed to substitute bocest for beast here, which mar well put us upon wondering what would become of Shakespeare, if ambitions correctors could have their way: Beast is just the right word for the place; there is no other in the language that would do at all. It convess a stinging allasion to what Macbeth had just said:-_ If you dare do all that may become a man, then what beast ras it that put this euterprise into your head?' The rery marrow of the passage lies in the sharp antitiesis thus suggested."

Even at the risk of beng dubbed an "ambitious corrector," I am in faror of boust: and 1 do not think the real difficulty is touched in either of the above comments.

The real difficultr, or what appears to me as the real difficulty, I will now attend io, "who dares do more than may become a man is no man." Then what is ho? A beast, according to Lady Macbeth's commentators. Hunter writes thus: "Then what beast were you, when you broached this enterprise to me?" In what sense, or in what way, can a bract dare more than $a$ man? As I take it, the object. about wheh both Macbeth and Lady Macheth wished the former to " dare more," was the marder of Duncan. In what way would the charactr-ristics of the beasi hare made him dare more? Is it by the increased physical strength? It was not so much physical strength he manted as what we might call strength of will. "But screw rour courage to the sticking piace." sags Lady M.

Nor for an " ambitions corrector." When Macbeth said " who dares do more than may become a man is no man." did be not mean that such a being would be higher than either man or beast-winald be in fact a super-natural agent? With this view is not boast a more correct readiag than beast? Boast won't give just the rery idea of the higher poreer than that of man.

The reading " dares no more" wonld make matters worse, because there would be an evidest inconsistency in the statement under that form, "who dares no more than may become a man is no man"-bow cali man dare more than man?

Altogether the passage is one presenting a fine field for inquiry; and I hope the next Jourval. will havs an interesting continuation of tho subject.

20th May, 1878.

## T'u the Editor of the Canada School Journal.

Str,-Tosay I am delighted is but a weak expression of the true state of my feelings when I read the proposal of your correspondent "S. H. M." I am desirous, therefore, of offering the realers of your invaluable Journal a few hints, based upon experience in England and elsewhero.
As "S. H. M." and people generally may not be fully aware of the difference between the constitution of an Assurance Company and a Friendly Society, I may bo permitted to explain it by reanon of "S. H. M.'s" advocacy of a "company." The great difference is this: the one is supported by and carried on for the benefit of members only, the other is carried on for the benefit of the sharoholders. Thus, if any profita be made in a Life Assurance Company they are not invested for the benefit of members as in Friendly Societies, but are divided amongst a body of men who have never devoted an hour to the interest of the members, and mauy of whom never subscribed a cent to the funds. In a Friendly Snciety every member has a right to a Balance Sheet yearly, showing the income and expenditure for the year, the amonnt of income over expenditure, and where the capital is invested. It would be impossible to know what capital a company may have. Iu a Friendly Society every member has a voice and vite at every Annual Mecting of the Society, so that, if its affairs be not conducted satisfactorily, he has power to arrest any mismanagement therein. In a Company the members have no powar whatever, but are entirely in the bands of the Directors. Shonld a dispute arise in a Frieudly Society the members can bare arbitration to decide the question, and thus cause very little expense and less labor. On the other hand, the contractor (the members of an Assurance Company are only contractor-t has no redress in case of dispute onty by bringing an action ia cue of the Superior Courts of law, the expense of which would be, in many cases, far in excess of the amount claimed.
Haring endeavored to show the great advantages to be got from a Society over a Company, I will strive to explain what may be performed by a vell-conducted Friendly Society. But, in doing 50 , I do not purpose entering into full details till I am justified in so doing. by further communication from "S. H. M.." or receive encouragement from others of the teaching fraternity. It is suffcient here to say, that if condacted on the industrial principlethat is, if the sums assared be of sach amounts as to bring them within the compass of all classes of teachers-we may hope for very high success. Turee or more tables may be arranged, in Which the parious sums payable as monthly, quarterly, half-yearly, and annual premiums on policies of 8100,8200 and 8300 , or even 81,000 and $\$ 2,000$, may be stated, and by a liberal treatment of the assurers, I can safely say from experience that the society will prove a permanent boon.
In addition to the ordinary Life Branch we may have, for the benefit of the married who may wish to subscribe to it, an Accouchment Branch, together with i Sickness, Annuity and Life Branch, of which I may be permitted to give a specimen.

## Sickness Asserance, fith Life Annuity, \&c.

Table I.
Shewing payments to procure the following Benefits. Contritutions to cease and Annuity to commence at 60 ycars of age.

| Entrance Fees. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ${ }^{4}$ ¢ | 8.00 | 88.00 |  |
| $\begin{aligned} & \text { ARe } \\ & \text { ntiton- } \end{aligned}$ |  |  |  | Class IV. <br> $\$ 20.00$ 2 nook in sickness. <br> 710.00 a rook Annaits, and $\$ 300.00$ at Deaih. |  |
| Sebscruptioss. |  |  |  |  |  |
|  | 3Ionthly Tearl | onthiy Yonrly | Moathly Yoa | Sonthly | Toarly |
| ${ }_{20}^{16}$ | (1)$\$ 1.50$  <br> 8160 816.00 <br> 81700  |  |  | $\begin{aligned} & 88.00 \\ & \$ 6.40 \end{aligned}$ | $2 \in .00$ |
| The Table may be continued up to any age-say 50 years-in |  |  |  |  |  |

I need scarcoly remnrk that when a momber enters for a Life Poliog only, the premiums will be vers much less.

Yours, \&e.,
Glen Sandfield, 18th May, $1 \varepsilon^{7} 8$.

## To the Editor of the Canada School Joutrnal.

Dear Sin, - Will you have the kinduess to give, through the columas of your valuable Journal, the most practical plan of conducting writing classes in . ungraded publio schools, in ordor that as muoh individual instruction as possible may be saved, and all papils of about the same attainments write the same copy at the same time. Every competent teacher knows the neceseity of orplaining to his pupils, with chalk and black-board, the proper formation of all letters of a copy, illustrating the errors they are apt to run into, and pointing out the way to avoid them. A great difficulty, however, presents itself in an ungraded school, where only one teacher is employed, and has pupils ranging from the Primer olass up to candidates for teachers' certificates. On account of the number of subjects that must be attended to, ouly about half an hour each day can be devoted to writing. How may general black board instruction, \&c., be given to best advantage under such oircumbtances?

## Rural Teacher.

This important question will be fully answered in Mr. Robinson's article, to appear in the next number of the Journal.

## THE HIRELING SCHOOLMASTER.

I have just finished reading an article under the above cuption in the May number of the Journal, and must allow that the writer would deal with the hireling very summarily and very safe1y. That there is such a class it would be needless to deny, and it is certainly in the interest of all concerned that they should turn over a new leaf with as little delay as possible. The plan recommended, however, would, I think, be liable to great abuse, and would be unnecessarily harsh if not abused. But there is another sufficient objection to bringing into use now machinery which does not seem to have been anticipated by Mr. May. The power to deal with hirelings is already in the hands of trustees and inspectors. Let them at the close of the teachers' term of office, give testimonials of efficiency only to those who merit them, and let trustees eraot such from applicants for situations, and the thing is done with existing power. And if trustees end inspectors have not sufficient firmness and honesty to apply this mild bat effectual remedy, it would scarcely be safe to isvest them with the questionable one proposed.

Yours, etc., etc.,
Jobn Cosemie, S. S. No. 6, Downie.

Liability of Teaceers.-At the Division Court at Bobcrygeon, May 14, Migs Esther Davis sued the Trustees of School Section No. 3, Verulam, for 842 , the amount of manicipal graut which the Inspector had kept back from sajd section on account of the teachor neglecting to keep the Daily Register properly and make ont the Annual Report, and which amount the Trustees had deducted from her salary. Judgment was given for the defendants on the ground that the teacher had not fulfilled her contract. The case was held before Jndge Dennistorn, of Peterborough; Mr. Barrow, of Fonelon Falls, appeared for the plaintiff.
J. H. Kifight, P. S. Inspector.

Lindsay, May 16, 1878.

## 恙attemafical saspartment.

Communications intended for this part of the Jounnar should be on separsto nheots, written on only one dido, and properly pared tr provent mistato $A L F R E D$ BAKER, B.A., EOTKOB

## PROBLEMS PROPOSED IN APRIL NOMBER.

1. For this we refer our seaders to the Philosophical Magazine for 1874, where will be foand Mr. Glashen's own solation.
2. From the first two equations, if $m$ be the common root, elim-
inating the first two terms, we have $m=\frac{a_{1} c_{1}-a_{1} c_{2}}{a_{1} b_{2}-a_{2} b_{1}}$. Eliminating the second two termes, we havo $m^{2}=\frac{b_{1} c_{2}-b_{1} c_{1}}{a_{1} b_{2}-a_{2} b_{1}}$; whence $\frac{b_{1} c_{2}-b_{2} c_{1}}{a_{1} b_{2}-a_{2} b_{2}}=\left(\frac{a_{2} c_{1}-a_{1} c_{2}}{c_{1} b_{2}-a_{2} b_{1}}\right)^{2}$, - the condition that the first two equations may have a common root. This root is $\frac{a_{2} c_{1}-a_{1} c_{2}}{a_{1} b_{2}-a_{2} b_{1}}$; and substituting this for $m$ in the third equation we obtain the condition that this root may bo common to the third equation also. Hence conditions required are:

$$
\frac{b_{1} c_{2}-b_{2} c_{3}}{a_{1} b_{2}-a_{2} b_{1}}=\binom{a_{2} c_{1}-a_{1} c_{2}}{a_{1} b_{2}-a_{2} b_{1}}^{2}=-\frac{b_{3}}{a_{3}} \cdot \frac{a_{2} c_{1}-a_{2} c_{2}}{a_{1} b_{2}-a_{2} b_{1}}-\frac{c_{3}}{a_{3}}
$$

No satisfactory solution was given.
J. A. C.-You will find that your second condition may be de. rived from the previous ono by multiplying both numerator and denominator of the first fraction by $a_{3}$, and of the second fraction by $a_{2}$, and subtracting numerators, aud also denominators.
A. H. -You will find that your method would give two conditions in order that two quadratics might have a common root,-only one is necessary.

Mr. Andrew Hay, Kingston, gives the following answer to prob. lem 3:

$$
\text { Let } \frac{f(x)}{x-a}=Q+\frac{R}{x-a} ; \therefore f(x)=Q(x-a)+R
$$

If the remainder do not contain any function of $x$, the value of $n$ will be independent of $x$; and in the above equation we may put $x=a$, then $R=f(a)=0$. But if $f(x)$ be of such a form as $x^{3}+$ $x^{2}+x^{4}$, for instance, it is plain that the remainder will contain some function of $x$, and $\therefore$ we may not assume that $x=a$, as $K$ will not be independent of $x$. In such an example, the theorem dnes not hold true.
Mr. Andrew Hay gives the following solution of problem 4: To show that

$$
\tan \frac{-12}{1^{2}}+\tan \frac{-2^{2}}{2^{2}}+\tan +\frac{-12}{3^{2}}+\ldots=\frac{9 \pi}{4}
$$

We have $\tan \frac{-^{-1} 2}{1^{2}}+\tan \frac{-12}{2^{2}}=\tan \frac{\frac{2}{1^{2}}+\frac{2}{2^{3}}}{1-\frac{2}{1^{3}} \cdot \frac{2}{2^{2}}}=\tan -1 \alpha=\frac{\pi}{2}$.

$$
\begin{aligned}
& \tan \frac{\frac{-1}{2}^{3^{2}}}{}+\tan \frac{-22}{4^{2}}=\tan \frac{-\frac{2}{3^{2}}+\frac{2}{4^{2}}}{1-\frac{2}{3^{2}} \cdot \frac{2}{4^{2}}}=\tan \frac{-15}{14} \\
& \tan \frac{-15}{14}+\tan \frac{-12}{5^{3}}=\tan \frac{-19}{20} . \\
& \tan \frac{-19}{20}+\tan \frac{-12}{6^{2}}=\tan \frac{-14}{27} . \\
& \tan \frac{-^{-1} 14}{27}+\tan \frac{-12}{7^{2}}=\tan \frac{-^{-1} 20}{35} .
\end{aligned}
$$

We observe that $5,9,14,2 n, 27$, and $14,20,27,35$, are two series of the 3 rd order of figarate numbers, of which the $n$th terms are:
$\frac{1}{2}(n+2)(n+8)-1$, and $\frac{1}{2}(n+4)(n+5)-1$, respectively. Therefore the $n$th term of the series $\tan \frac{-25}{14}, \tan \frac{\frac{-2}{2}_{20}^{20}}{20}$, dc., is $\tan ^{-2}$ $\frac{(n+2)(n+8)-2}{(n+4)(n+5)-2}$. $(n+4)(n+5)-2$
method of induction. This may be rigidly established by the method of induction.
The $(n+1)$ th will be

$$
\tan -\frac{(n+2)(n+8)-2}{(n+4)(n+5)-2}+\frac{2}{(n+4)^{2}}
$$

$$
\begin{aligned}
& 1-\frac{(n+2)(n+3)-2}{(n+4)(n+5)-2} \\
& -\frac{2}{(n+4)^{2}} \\
& -\frac{(n+3)(n+4)-2}{(n+5)(n+6)-2}
\end{aligned}
$$

Hence, since the law has been shown to be true for five terms, it is true for six, and therefore for soven, and thence gonerally.
Therefore sum of series inn $\frac{-10}{3^{2}}+\tan \frac{-12}{4^{4}}+$ \&c. to $n$ terms is $\tan \frac{-1(n+2)}{(n+1)} \frac{(n+3)-2}{(n+5)-2}$; and as $n$ appronches infinity, this approaches $\tan -{ }^{r} 1=\frac{\pi}{2}$. The first two terms boing $\frac{\pi}{2}$, tho total sum is $\frac{3 \pi}{4}$,

With respect to problem 5, Mr. Fay thinks the solution can be effected, and offers the following, which undoubtedly is correct:

Let $C$ be the poiat frum which the strects branch; $D$ the point where the sewer meets the river ; $F$ the point in $A C$ from which the drain is constructed.

Then angles $A C D, B C D$ are equal, also angles $A D F, C D F$.
Let $C D=x, A C=y . A D=6, A F=4, D B=x-11$;

$$
A C: C B:: A D: D B \text { (Euc. VI. } 3 \text { ) }
$$

$$
\therefore y: \cap B:: 6: x-11 \text {, or } C B=\frac{1}{b} y(x-11)
$$

$$
\text { Also } A D: D C: A F: F C(\text { Euc. VI. 3), }
$$

$$
6: x:: 4: y-4, \text { or } y=\frac{1}{3}(2 x+12)
$$

Again, $9\left\{y+\frac{1}{6} y(x-11)\right\}=$ cost of drains down both CA and $C B=£ 54$ more thau cost of sewer $=x y+54$. From this $x y-$ $15 y=108 ; \therefore$ substitutiug above value of $y, \frac{x}{3}(2 x+12)-\frac{1}{3}(2 x$ $+12)=108, x^{2}-9 x=252, x=21=C D$. Also, $A C=y=$ $\frac{1}{3}(2 x+12)=18 ; C B=\frac{1}{6} y(x-11)=30$.
J. A. C.-You lave not read this problem correctly, taking cost of seser as many $£$ 's per chain as there were chains in both $C A$ and $C B$, instead of $C A$ alone.

The following solution of problen 6 has beeu given with slight alterations by J. A. Clark, Picton; R. Cuates, Lowville ; A. W. D. Knapp, St. John Cy., New Bruuswick ; J. E. Dean, Millidgoville, N. B.; A. Hay, Kingston; U. SLarpe, Trenton:

4 ac. with growth for 6 weeks keep 12 oxen for 6 weeks.

| Also 5 | * | * | 2 | ${ }^{6}$ | 35 | " | 2 | ، |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\therefore 1$ | 4 | " | 6 | ${ }^{6}$ | 3 | * | 6 | * |
| And 1 | 6 | * | 2 | " | 7 | * | -2 | 6 |
| 1 | * | ${ }^{6}$ | 6 | ، | 18 | 4 | 1 | ${ }^{4}$ |
| And 1 | * | " | 2 | " | 14 | 4 | 1 | * |

Hence growth of 1 nc. for 4 weeks keeps 4 oxon for 1 weok; or growth of 1 ac. for 1 week heeps 1 ox for 1 week.

Now 4 acres with growth for 6 wecks keeps 12 oxen for 6 weeks; and from abore the growth alone on these 4 acres must maintain 4 of the nxen; hence the grass that was on 4 acres at the beginning maiutained 8 oxen for 6 weeks, or 48 oxen for 1 week. Therefore the grass standing on 1 acro at the beginuing maintained 12 oren for 1 week.

Again, since growth of 1 acre for 1 week koeps 1 ox for 1 week, and since $B$ is entitled to the growth, he may keep 12 oxeu for the 8 weeks, there being 12 acres.

Also, since grass standing on 1 acre at beginning will maintain 12 oxen for one week, and since $A$ is entitled to this, lu moy heep 144 oxen for 1 week, (there being 12 acres) or 18 oren for 8 weeks. $A$ maintaining 18 oxen and $B 12$ for tho same time, tho rent, 8120, must be divided into parts, 572 and 848.
J. A., of Mimico, and U. S., of Trenton, gave algebraic solutions. It would have been well, in stating what $x$ and $y$ represented, had they said that the unit was the amonat required to keep one ox for ono weel.

Mr. Anderson, Mimico, obtains a correct result for problem 7.

1. W. J. Brice, Watford, asks whether the following can be solved by means of tho Firat Book alone: $A B, A C$ aro two given straight lines; $B$ and $C$ given points in tho bamo. $B D$ and $D E$ are drawn perpendicular to $A C$ and $A B$; and $C F$ and $F G$ perpendicular to $A B$ and $A C$. Prove that $E G$ and $B C$ are parallel.
2. Bisect a traperinu by a line drawn from one of its angles. J. E. Dean, Portland.
3. Sold lumber on commission at $6 \frac{1}{2}$ per cent. Invested net proceeds in salt at 4 per cent. commission. My whole eommission was 8136.50 . What wore the values of the lumber and salt?
4. I bought a quantity of tea at 81.15 per lb . Allowing that the tea will full short 7 per cont. in weighfug it out, that duty, carriage, \&c., will be 19 per cent., and that 12 per ceut. of sales will be in bad debts, for dow much per lb. must I sell it to make a clear gain of 25 per cent. ?
Subscriber, Lansdowne.-The most lucid is the usaal solution, -in effect, an olgelbraic one. Your secoud is too easy.

Mrecranic, London.- Your problem is too easy, being merely a question of accuracy in the simple rules.

## 鞔ratital 졍pyrtmont.

## CONVERSATIONAL COLUMN.

1. What errors in pen iwolding would you correct most carefully?

All orrors should be corrected cerrefully, and when the pupil first begins to write. Teach pen holding while the pnpils are using the tracing books, so that they may be able to give the subject their uudivided attention. The errors most frequently made in holding the pen, and which lead to the most serious results, are:

1. Resting the hand on the side.
2. Resting the wrist on the paper.
3. Vriting with the side of the pen or with only one of its points.
4. Holding the pon too noar the point.
5. Bending the first and second fingers so as to leave a space between the first finger and the holder.
6. Holding the pen ton tightly.
7. How ean pupils be made to understand and remenber the yroper position for pen holding must easily?

By a careful explanation of a pictare of the hand with the pen in proper position. Such a picture is usually printed on the cover of a good series of copybooks. It will not bo sufficient, however, to explain the proper position. The teachor will require to watch constantly to prevent relapsing into erroncous positions. He should stand daring the writing hour occasionally, whero he could see the hands of the whole class, aud correct every mistake made. He shơuld do it quietly. It will be morely necessary. as a rule, to say, so as not to attract the attention of any bat the papil meant, "Smith, hand off side;" "Jones, knuckles toward ceiling;" "Brown, too close to point," dic.
Some pupils bave much difficulty in taking loold of the pen properly. It is a good plan to have special hoiders for such with in. dentations at the points of contact of the holder with the thumb and fingers.

Mr. Adam Morrison, Principal of Niagara St. School, Toronto, adopts a method of securing good pen holding which is eminently successful. Ho makes pen holding a home exercise in drawing. The papils havo the picture referred to above explained, and the tencher draws it on the black-board as be proceeds with lis explenation. The pupils then draw the hand on their slates; and havo their errors pointed out until they can draw the hand with the pen in proper position from memory.

In this way crery point must be dafinitely, and very soon in-
delibly impressed upon the mind. The slightest error causes the repetition of the exercise.
8. Should a seacher break in upon a recitation to attend to mutters of discipline?

Not if ho can avoid it. A toacher with tact will be able to quell the ordinary little attompts at mischiof-making by a look or a simple movement of tho head or hand. Fvon a pupils name may be spoken between the soutences of an explanation without attracting the attention of a single pupil but the one addressed, if the asm f be uttered ia the natural tone of voice. Idleness or wrongdoin ${ }_{5}^{\prime}$ should slways be checked, if possible, without any scholars but the offender knowing anything about the matter. It is often advisable, when the teacher cannot catch the eye of the little culprit, to allow the matter to pars until recess, or some other time, when the pupil can be spoken to quietly and alone. Nothing gives a boy a surer conviction of the superiority of his teacher than the knowledge that his teacher saw him engaged at squathing which he fancied be was doing so cleverly and slyly as to avoid detection. It is a good rule not to interrupt a recitation to quell disorder, if the teacher's interruption will cause more loss of time and distraction of attention than the pupil's disorder would have done.
4. Should a teacher explain the principles of "carrying" and "borroving," in addition and subtraction?

Yes. It is a pity that any child should over learn any part of arithmetic by symbols before it has performed the operation with real things. If children were allowed to do their arithmetic with objects of some kind before they were required to perform operations with mere marks, they would not require much explanation in order to make them nnderstand the subject.

## METHOD.

by J. b. CALETN, M.A., principal nobysal somool, troro, n. s.

$$
\overline{\text { II. }}
$$

Wé endeavored to show in a previous article that children should be taught through objects and individual examples. Young children are not accustomed to the higher processes of thought, and hence.they cannot anderstand that knowledge which has been thns elaborated and which is expressed in general terms. They may indeed cummit to memory the verbal expression of principles and recite it glibly enough; but they hnve gained words only, and the recitation is mere sound-rox et preterca sihil. The exercise is often worse than useless, as the children acquire the habit of getting words without looking for ideas.

We propose by means of two or three illustrations to show how arithmetio may be traght to beginuers in accordance with the principles enunciated.

Noparton.- We should assume that the children can count-that they understand what is meant by the words cight, fifteen, tiventyfour, \&c., \&c. They have learned the meaning of these words in the natural way, from objects, getting the idea first and then the term. We wish to teach them notation-how to write numbers.

For each nomber onder ten we have a distinct character; honce tho decimal system of notation does not appoar in the writing of these numbers. Ench figare must be learned independently. In tesching to writo numbers under ten we may place on the blackboard lines, words, and figures as below :

| 1 | $1 i$ | 111 | 1111 | 11111 | 111111 | 1111111 | 11111111 | 111111111 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ono | two | three | four | five | six | seven | oight | niad |
| 1 | 2 | 8 | 4 | 5 | 6 | 7 | 8 | 9 |

The children becomo familiar with these figares by writing thom on their slates.

As wo lrave no new significant characters for higher numbers, wo must show how the value of a figure is affected by its position. As n preparatory step we shall lead the children to think numbers above ten as combinations of ton with other numbers. The words used to designate the sumbers above ton will aid us in developing this idea. Tako a number of objects, as pencils-count, nay to fourt:en. Scparate them into two parcels, four i:na ton. Bring from the childron the statement of the unmbers, four, ten. Tell them that teen is ano her form for ten, and bence we say fourteen. Proceed in like manner with fifteen, sixteen, \&c.

Roturning now to tho fourteen, tic up the parcel of ten into a bundle, so as to give the idea of unity. It is one burulle which we call ten, one ten. Holding up the four loose pencils, ask how many, and call upon some child to place the figure 4 on the black-board. Then, as the ten pencils form a bundle, one bundle, have the figuro 1 placed on the board. A difficulty now appears. How shall it be known whether this figure means one pencil or one bundle of ten? Draw vertical lines on the board, making two columns, and write at the top the headings, units, teus. Now write the figures 4 and 1 in thoir appropriate places, thus:

$$
\left|\begin{array}{c|c}
\text { tens. } \\
1 & 4
\end{array}\right|
$$

State to the children that the right hand column is for the units, or united pencils, and the second column for the bundles or tens. They then read the number written, four-ten-fourteen.

In tho same manner teach to write the other nuwbers between ten and twenty. In writing ten show that we have one bundle and nothing over, and give the character 0 to indicate the absence of units. Finally remove the vertical liues and the headings, leaving the children to determine the value of the fgures from their position.

The method thus briefly indicated can casily be extended to higher numbers. Twenty-five, for ivstauce, can be shown to contain two tens and five units. Make two bundles of ten each, place the figure 5 in the place of units and the figure 2 in the place of tens.

## HOW TO TEACH MENSURATION.

by w. J. Carson, h.m., model school, londun.
Superficies.-The Square, Rectangle, Parallelogram, Rightangled triangle, Triangle, Trapezoid, Circle, Scetor of a Circle, Segment of a Circlo.
Solids.-Cube, Prism, Pyramid, Cone, Frustum of Cone, Cylinder, Sphere, Spherical Sector of Sphere, and Segment of Sphere.
In order that Mensuration may be studied at all a knowledge of Arithmetic is requiren, and if studied to any extent, a knowledge of at least F.יलlid and Algebra are indispensable.
There are fire methods of teaching the subject. (1.) By mechanical proofs. (2.) By geometrical proofs. (8.) By mechamical and geometrical proofs combined. (4.) By the worst of all, and one too frequontly used, that of teaching by rule without giving ang reason whatever for the process. (5.) By rule and mechanical proofs.

Tho fifth method I would recommend for pupils who have never studied Euclid, and the third for those who have stadied it. ${ }^{-}$
There aro three units of measurement (1.) The lineal unit for measaring distance. (2.) Tho square unit for measuring the area of $a$ surface. (3.) The cubic nuit for measuring the volume of solids. Each of these should be thoroughly explained by the teacher and understood by the pupils as soon as it is required.

Commence by explaining the lineal unit, (inch, foot, yard, rod or
perch, ko.) and by measuring distances. Bring the inoh, foot, yard, and porch mensure into the class-room before the pupils in order that they may oxamine them, and form a correct idea of the length of aninch, foot, ©c. A yard meabure divided into feet and inches will not do to teach the inch and foot by; as eaol would requiro to be seen separately so that no incorrect impressions may be made. After the measures havo been examined make a pupil take the inch rule and neasure auy number of inches on the blackboard, say 7,9 or 11 inches \&c., placing a mark at the end of every inch, and go through the same process with the foot rule and yard stick. The yard stick and rod-pole should be used for measuring in the play-gromud or otiner suizable place.

It is surprising what a vague idea the majority of boys and girls (ospecinlly girls) Lave of the distance of say 35 feet, 45 yards or 11 rods, \&c. Pupils must be made to understand that 7 inches means 7 lengths of tho inch measure, and 13 foet, thirteen lengths of the foot rule, \&is.

After the lineal unit is understood, take op the square unit (square inch, square foot, square yaxd, ec., ) in connection with the arc 2 of surfaces. Cut the square inch, foot, and yard, out of paper or pasteboard and bring them before the class. Show that they are necessary for the measurement of surfaces, (e.g.) if you were to say that a wall was large or small, we would have a very imperfect idea of its size, but if on the other hand you were to say that its area wasa certain nuubber of yards we could form an idea of its exact size. The squaro rod and square acre should be measured in some field or other suitable place.
The square and oblong should he the first figures taught. Send a pupil to the black-board with the inch measure and have say 7 inches measured off in a horizontal line, with a small point at the ond of every inch, and through each point draw a perpendicular line. Show that whenever you measure across these lines that they are one inch apart. Next have 5 or 7 inches measured off on a perpendicular drawn from one extremity of the horizontal line, and through each point draw horizontal lines. Now ascertain from the class the number of squares in the top line, Ans. 7. How many in the second line? Ans. 7. How many in the two lines? Ans. 14, \&c.

You can now got the rule from them that the length multiplied by the breadth gives the area. Show that the area is the product of two factors, one of them the length and the other the breadth. By their arithmetic, when one factor is given and the product of the two, the other may be found by division. When both factors are equal, as in the square, and neither given, a knowledge of square root will be required. The length of a floor and the width being given to find the number of yards of carpat of a certain width that will cover it. It may bo shown how to find the area of the floor, and the ares of the floor being known, the ares of the carpet is known, and the width, one of the factors being given the other may be found.
Examples.-(1.) How many acres in a field 32 rods wide and 40 rods long?
(2.) Find the number of square teet in a wall $10 \frac{1}{2}$ feet high and 42 feet long?
(9.) Find the numbor of square yards in the walls of a room 9 feet high, 14 teet wide and 18 feet long?
(4.) How many inches would you require to cat off a board 14 inches wide to have $8 \frac{1}{2}$ square feet?
(5.) A city lot is 144 feet in dopth, how many feet front must it have to contain a quarter of an acre?
(6.) A fanmer wants ts run a fence across a fiela 80 rods wide so as to enclose $2 \frac{1}{2}$ acres, how far from the end of the field must he put the fence?

In the $4 t h$, 5 th and $6 i \mathrm{~h}$ questions the area or produot of two fuctors is given, and the one factor to find the other.

TEE PARALLELOGRAM.
Geometrical proof (i. B6.) Euclid.
The area of a parallelogram is the same as tho area of a rectangle which is the same length as the parallelogram, and having the same perpendicalar width.
Mechanioal proof:-
Cut the parallologram ABCD out of a piece of paper, then cut off ABH so that AH will bo perpendicular to HC, and make it occupy the position of DCM. Now the pupils can very easily see that you have the same piece of paper, and that it mast contain the same area as before, as it is neither smaller nor larger, and it is now in the form of a rectangle, having the same length and perpondicular width as the parallelogram.
Ques.-Find the ares of a parallelogram whose base is 22 feet and perpendicular 9 feet 6 in.
The area of a parallelogram varies according to its perpendicular width.
Mechanical proof :-
Take four pieces of lath or stick and lay down one piece as $\mathrm{AD}_{\text {r }}$. twoo.ther pieces as $A H$ and $D M$, with the ends on $A$ and $D$; then lay thes fourth piece on the ends of AH and DM as HM, and drive only one tack through each corner. Take hold of two opposite corners, as A and M , and draw them apart so that there will be nospace onclosed; then push them in opposite directions until no space is enclosed.
Pupils can now see that the area varies with the porpondiculardistance, and is the greatest when the figure is right-angled.
Right-angled triangle. Goometrical proof: (i. 47) Euclid.

Mecbanical; proof :-
Draw a right-angled trisngle so that the sides will be in the proportion of 8,4 and 5 , or 5,12 and 18, and describe squares on it $a 8$ in the figure. Now show that the area or number of squares in the large square is equal to the ares of the two small ones, and 红at the difference between the area of the large square and the ares of one of the small ones is eqnal to the area of the other small one. Now it can be easily seen that when the perperdicular and base are given, pre can find the area of the square described on each, and add them together to find the area of the square on the hypothenase ; find the side of this square and we have the length of KE the hypothenuse.
In a right-angled triangle if a perpendicalar be drawn from the right angle on the hypothenuse, the segments may be found.
Evolid (i. 47) or (vi. 8).
(i. 47.) Find the area of the square on AE , and that is the area of the rectangle BCDE, and one factor DJ or KE is given to find the othor.
Mechanical proof :-
Take a piece of paper the size if the square $A E H G$ and cat it so that one piece of it will be the width of the rootangle, and lay
the piece down upon it, then take the remaining piece and cut it so that the rest of the rectangle may be covered.
(1.) A black-board is 5 feet wido and, 12 feet long; what distance aro the opposite corners apart ?
(2.) The opposite corners of a clase-room are 35 feet apart, the longth of the room is 28 feet ; find its width.
(8.) A farmer going from his work to the house pasees 85 rods east along the end of a field, then north 84 rods to the house; how much less walking would he have to do iff he had taken the nearest way across the fiold?
(4.) The distance from the ridge to the eaves of a building is 15 feet, and the perpendioular height of the gable end 9 feet; what is the breadth of the building?
(5.) The base of a right-angled trianglo is 20 feet, tho perpendioular 15 feet, and a perpendicular is drawn from the right-angle upon the hypotheneuse; find the length of the segments.

## PENMANSEIP IN PUBLIC SCHOOLS. III.

By W. B. Robinson, Ontario Business Corlegr, Belleville.
As soon as pupils have been taught the formation of letters, in accordance with the instructions previously given, and can combine them into words, pen and paper should be substituted for pencil and slate.

## MATERIALS.

Writing Materials should always be the best that can be prooured. They shouk be of uniform quality throughout the class, that all, mapils may have equal advaniages, and should be selected in accordance with the teacher's directions.

Paper.-Paper sbould be of good quality, smooth and firm, and always bound in the form of books. A well graded series of headline copy-books is decidedly the best. Teachers have no time for writing headlines, and bat few write sufficiently well that their oopies may be taken as perfect models for imitation.

Practice Frercise-book - Besides the copy-book, each pupil should be provided with half a quire of large-sized letter-paper or a spare blank-book, raled without copies, in which to practise exercises designed to train the hand in acquiring facility of execation for those movements which the aotual forms of writing require. These exercises should be practised five oriten minates before the regular lesson, and should be written with the same care as those in the copy-book. A good plan of obtaining regularity of movement is to haventhese exercises practised in concert at first. Well graded movement exercises develop and strengthen the powors of the fingers, hand and arm, and so train the muscles that they become completely under the control of the will.

Pens.-A pen with smooth, even points, maling a nniform and clear mark at all times, not too sharp, bnt fine enough to make the delicate bair lines,"and sufficiently elastic to make the shades even and olear, should bo seleoted, and the teachor should insist upon every pupil in the class asing the same kind of pers. A good pen] costslno more than a [bad fone, and the tescher should be a better judge in making thelselection than a papil. If this is not done, some papils will bring pens altogether too fine and sharp, and others large, cosers ones, designedionly for writing on rough wrapping paper. Gillott's 292 will be fonnd to possess the required qualities, and can be procured from any static aer. In Cities and Towns it isybuter for the Boards to provide the pens.

New pens being more or less oily, should be wet and wiped dry before using, that the ink may flow from them freely.

Pen Holdors.- Plain, light, wooden holders, about six inches in length, aro tho best. Avoid thoso made of ivory, or any heavy materin. They should be simple in construction, clasp the ren firmly, holding it immovable while writing, yet be capable of being easily removed whan worn out or brokon. About one-third of a pen such as filloti's 292, should be inserted in the holder.
Ink.-Black Ink is best for school purposes. It is of varions shades and qualities, but only that which is sufficiently dark when first used to show a pupil how his work will appear, flows freoly, and will not change its color or spread under the surface of the papor, should be used. The rapid evaporation of the watery part of ink soon causes it to thicken. It should then be diluted with clean, soft water. Ink-wells should bo covered when not in use, thoroughly cleaned as soon as any sediment accumulates, and replenished at least once a week. In taling ink the pupil should be cantioned to dip the pen only to its shoulder, and slowly remove it, not allowing it to touch the inkstand. If it is removed too rapidly the attraction of the fluid will leave too much ink on the pen. This rule, carefully observed, will save blots and inky fingers.

Pen Wipers. Tho teacher should see that overy pupil is provided with a suitable pen wiper. They may be conveniently made of two or three circular pieces of dark cloth, stitched together in the centre. The pen should be wiped between the folds, so that if the pen wiper should happen to fall upon the copy-book, there may be no blot. After the pen is usod it should be wiped dry.
Black-boards.-It is unnecessary to givo hints on making black-boards, as we trust every school-room in the country is well provided with such a necessity to successful teaching. They are as essential in teaching penmanship as arithmetic, and should be freely used in connection with every writing losson. Success in the management of writing classes depends almost entirely upon a proper use of chalk and black-board. The intelligent teacher who understands criticising and explaining penmanship, even though he be not a good penman himself, and keeps up an interest and en. thusiasm in his pupils by a proper use of black-board illustrations, will be able to show more improvement in three weeks' time than those adopting the plan of allowing pupils to imitate and practise according to individual fancy, can in as many months.

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## ONTARIO.

The Beacon says the Kindergarten is to be introduced in Stratford.
The Trustees of Toronto Public Schools are armanging to have Sowing and Drill Classes organized and conducted by experts.

Brant County Institute has founded a Teachers' Professional library.
Dr. Phillips read a most excellent paper at the last meeting of the Brant Association on Hygiene. He strongly urged the necessity for good ventilation, pure water, proper drainage, \&c.

Brantford Teachers' Associstion did wisely in arranging the topics for their next meeting, six months ahead. Each teacher will have time to prepare himself on any of the sabjects he cbooses. The
 of the Institute : "Urawing-how to teach it;" "How to teach Geography to a third class;"" "How tc teach addition;" "How to toach mental arithmotic;" "How to teach an object lesson;" "Best methods of analysis in grammar;" "Kindergarten system;" "Teachers' salaries ;" "Question drawer." It was also proposed to invite Prof. Young to the nert meeting of the Institute, to give his lecture on Psychoiogy.

Ailsa Craig and Newbury have each added an additional toscher to their staff.

It is reported that Dr. Fyfe, Principal of Woodstock Institute, will retine from his position, and that he will probably be succeeded by Professor Wells.

At the last moeting of the London 'leachers' Association it was moved by Mr. J. T. Colton, seconded by Mr. A. C. Stewart, that this Association respectfully request the Board of leducation of the City of London to pay the teachers' salaries monthly instend of quarterly, as horetofore. Carried.

Tho managing committee of the St. Thomas School Board lately reported that they were willing to give Mr. Watt the use of one of the rooms in the school, after selome homrs, for the purpose of teaching music to these puphls who wish to avan themselies of the opportunity, on condation that the Board bo not held responsible for fees.

Tho averame High School attendance in Perth was 90, non-residonts 25. The avorage Public School attendance for April 330. No. on roll 411.
The Public School teachers of Hanilton have organized a "Hamilton Teachers' Association," with the following stanf of oflice-hearers :-President, A. Mitcallm, M.A., LL. B.; Vice-1'resident, G. W. Johnson ; Treasurer, Miss S. Jhemetto ; Seuretary, A. Scott Crukshank: Drectors, W. H. Morten, Miss E. White, Miss E. Henry, Miss M. E. Armstrons, Miss E. Du:ille.

The luspector for St. Thomas recommended lately that on accomat of the great overcrowding in the jumine grades, the puphls in the first book of reading have their hours shortened to say three hours por day, dividing the children of a particular room into two divisions, teachng one of the divisions one part of the daty and the other during the remaining part. It was resulved that the managing committe should carry out the recommendations of the Inspector as far as practizable.
$A$ trumat oflicer is needed in Napance. At the last meeting of the Board of Trustees the chairman said that he frequently saw pupils in the neghbonhood of the Presbytertan and Episcopal Churches, and they had the buldness to tell him they were playing tanant. A discussion ensued in eference to truancy, $i \cdot 1$ which it wis agreed that parents should look fur the monthly reports, and withont that it was impossible to prevent frequent absence of pupils.

The closing exercises of Victoria Unversity were of an unusually interesting character this year. Rev. Dr. Ormiston, of New York, a graduate of the Umversity, delivered an eloquent Barca-laureate address to the graduating class. The Alumni meoting was held on Monday, D. C. MeHenry, M. A., in the chair. Rev. Dr. Burwash presented a completo list of the members of all of the Faculties of the institution, from its mauguration as a University to the present time, together with a list of the graduates in all of the departments. The total number of yraduates in Arts was 256 ; in Medicine, 812 ; in Law, 70 ; in Theology, 39 ; and in the new department of Science, 2. Grand total of graduates in all of the Faculties, 1.377. One fourth of all the graduates of Ontario have come from Victoria. The Annual Convocation was largely attended. The Hon. Adam Crooks, Mmaster of Education; Rev. Dr. Myerson ; Hun. W. MeDongall, and other dastinguished visitors were present. A very successful conversazione followed the Converation.
At the Division Court at Bobcaygenn, May 14th, Miss Esther Divis sued the 'Trustees of School Secton No. 3., Verulam, for 84:2, the ammunt of municipal grant which the Inspector had kept back from said section on account of the teacher neglecting co keep the Daily Register properly and make ont the Ammal Report, and which amount the trustees had deducted from her salary. Judgment was given for the difendants, on the ground that the teacher had nut fulfilled her contract. The case was tried before Judge Dennistoun, of Peterborough. Mr. Barron, of Fenclon Falls. appeared for the plaintiff.
In West Middlesex the following regnlations have been issued by the Boards of Examiners. They agree with those adopted by other Boards throughout the district:-" All whose certficales expire in July, 1878, require the recommendation of the Inspector in order to obtain the renewals; so far as West Middlesex is concerned, the recommendations can only be obtained by passing the non-professional examination reguired from new candidates; in some cases it may be necessary, besides this, to instruct the applicant for renewal to spend a term at our County Model Schoul. Those now teaching who feel their mability to comply with the conditious for renewal, should promptly notify their trustees, so that thoy may be in a position to secure a teacher for the remainder of the year. Several ladies and gentlemen holding Provincial certificates are now seehing situations, several more will be similarly situated at the close of the Normal School examination, on the 30th June. These will be available for vacancies, and should expect sympathy and encouragement from those retiring, to secure
equinalent qualifications. It is certainly not ton much to expect a candidate aftor teaching three years, and studying with a viow to obtaining a srcond, to be able to pass the oxammation for thirdclass cortificater."

The namber of toachers in Brantford is 28, 25 females and 3 males; ono of the gentlemen acts as writing-master for all the sehools. Tutal expendituro for 1877, 814,609.00. For toachers' salaries, 88,775.37. The Bonrd las omployed Conatable Dume as truant officer. The Cullegiate Institute is abont to enlarge its grounds by puichasing tho lots in the roar of thoir presont building. The Public School Board has planted a large number of treas this spring about their various schools.
His Honor Sudgo Elli itt deliverod a very practical address bofore the East Middlesox Ceachers' Association at its last meeting. In reference to the value of uur system of Public Schools he spoke as follows :-"We must remember that uuder our systom the government can only be a retlex of the poople. Ignorance is the condition which tho unprincipled demagogue will always couri. To close our public schools would be to consign us to a raign of ignorance, and open the field to men of shams wider than ever. Many well meaning persons will say, but would you not combine religinus and intellectual instruction? To this inquiry condid people must admit that we must bend to circumstances. We are split into many sects, and to introduce dogmatic theology would ruin the schools. But the sublime ethics of the Gospel furnish a common ground for all.'

Inspector Slack closes his last roport to the Minister of Education with the following remarks:-Seven years have now nearly passed away since the great improvement was made in our School Law, which came into force in June 1871, and it is time for us to pause and reflect upon the progress that we have made, and the position we occupy to-day, 'This I will do very briefly. In a material point we have done well, but little remains to be accomplished, as will be seen by reference to my "Detailed Reports." As far as passing a sufficient number of legally qualified teachers, through our examinations, we have also been very aucceanalul; very few "Permits" have now to be granted, and they generally to assistints. Our sahools are conducted as well as can be expected, in accurdince with the "Law and General Regulations." Theoutward appearance that we have to present displays signs of life, activity and carnestness in our School history. There remains to be seen whether there is that in ward life of improvement in teachers and pupils, without which lasting good cannot bo achieved. This to my mind is not so satisfactory as it might be. The "routine" system has not yet been eradicated. There is yet too much attention paid to cramming the menory rather than to developing the powers of the mind. The "art of teaching" has not yet attained to the position in which we hope to see it. Rading in too many of our schools is without that life and taste which should characterize it in order to make it eflicient. Arithmetic ia yet too much taught by rule and without a practical bearing. Granımar savors too much of text-hooks, and is lacking in its practical application to Analysis and Composition. Our pupils, as a rule, are not sufficiently educated to think fur themselves. To these points we must all now direct our special attention until not only in external but interyul appearances we may be able to boast of the efficiency which should be expected of those working under the numerous advantayes of our excellent Educational system.

I have the honor to be, Sir, yeur obedient servant,

> H. L. Slack, M.A., I. P.S., Co. Lanark.

Perth, May 1st, 1878.

## QUEBEC.

The Examination of Candidates for Teachers in the Public Schools was held on May 7th. This examination is held halfyearly. For the first time the questions were all printed and the answers given in writing this year. This is doubtless a move in the right direction, although several improvements and alterations would seem to be required in details. For instance, it seems hardly right that the same number of marks should be given for every subject ; nor yet that Examiners should bo allowed to assign what number nf marks they like to separate questions. The majority of the candidates, appear to be ladies. In Quebec cits, out of eloven candidates two only were of the opposite sex. This will not perhaps scem stiange, when the fact is known that tho yearly salary of Public Schnol Teachers is often not mare than $\$ 120$. The Prenier, Fon. Mr. Joly, speaking at St. Hyacinthe, said that the women whu scrubbed the floors of the Logislative Halls received a better remuneration cian teachers. He promised to reduce the
amount given to the Inapeotors and to increase the salaries of the teachers, a most righteous and just measure. It is often a matter of wonder to English-speaking Canadians that some patriotic French-Canadian does not take up in earnest the mattor of popular education-a must arduous and extersive field of labor.
It is anid that the new Government has reducod the salary of the Hon. Mr. Ouiniet, Superintendent of Education, to 88,010 per annum, making it the same ns the ministors themselves.
The examination of candidates for admission to the Study of Medicino took place in Montreal on tho 2nd and 3rd of May, bofore the Board of Examiners appointed by the College of Physicians and Surgeons. The examiners were Rev. Mr. Laflamme, of Quebee Seminary; Mr. Millor, of Quebec High School ; Rev. Mr. Vrreau, of Jacques Cartior Normal School; and Dr. Huwe, of Muntreal High School. Out of 24 candidates 5 were rejected. The successful candidates are said to havo acquitted thenselves better than those of former years-owing probably to the fact that specified portions of the Greek and Latin authors appointed for examination had been indicated beforehand. The translation of the Greek and Latin (First Book of tho Anabasis and First Book of the Eneid) was into English or French, at the option of the candidate.
On May the 15th, the remains of Laval, first Roman Catholic Bishop of Quebec, were removed with imposing ceremony to the Seminary Chapel. This is certainly a very appropriate resting place for the relics of the founder of the Quebec Semiuary. Of all the labors of this ardent champion of the rights of the Church, the Seminary of Quehec is one of the most important and enduring. Arriving in Canada in 1659, he founded the Seminary of Quebec in 1663, and the "Petit Seminaire" or College de Quebec in 1668. This last was an elementary School fromt which students parsed to the Jesuit College for a classical edncation, and from this to the Seminary again for theology. Laval also founded a school for boys at Chateau Richer, in the County, which bears his nameMontmorenci. To the Seminary he bequathed his pruperty. In 1852, the Seminary founded the Laval Uaiversity. The value of the buildings occupied by these three institutions is estimuted at $\$ 400,000$.
On the same day the Catholic Bishops of the Ecclesiastical Province of Quebec arrived in the ancient capital, and attended a meeting of the Council of Public Instraction.

## NOVA SCOTIA.

The chief event of the past month has been the closing Con vocation of Dalhonsie College. Rev. Principal Ross, D.D., who has in great part recovered his health, presided. Professor Macdonald, Secretary of the Faculty, prefaced his reading of the list of undergraduates who had passed the session at examinations and obtained Universaity distinctions, with a few remarks on the harmony and good feeling that had characterized the relations of the professors and students. Eight gentlenien, Messrs. John A. Cairns, John H. Cameron, John L. George, James A. McKenzie, Geo. W. Munro, Edmund'L. Newcombe, Anderson Rogers, and Alfred Whiteman. were admitted to the degree of B.A., and Give, Messrs. W. G. Archibald, J. C. Herdman, L. H. Jordan, A. McLeod, and A. J. Trueman, to the degree of M.A. Mr. Trueman, who has for sonie time past ably filled the position of Inspector of Schools in Portland, N.B., delivered a brief address, in the course of which he adverted to the value and thoronghness of the training givea at Dalhousie College. Hin. G. C. Hill, D.C.L., Premier of Nova Scotis, also spoke, and alluded to the entrance intc the Government of the Province of Hon. D. C. Fraser, a Dalhonsie graduate. Sir William Young, Chief Justice, President of the Board of Governors, stated ihat the prospects of the College were brighter than they had ever brosh, and suggested the propriety of giving degrees in Science. The chief University prizes wero carried of this year as follows:
St. Andrew's Prize, awarded to the best student in the Mathematics of the second year, Albert E. Thomson.
Elooetron Prizes, given by Sir William Young, Kt.; 1st (\$20), James A. Sedgewick, Musquodobnit; 2nd (810), Du.: $: \bullet n$ Csmeron, St. Mary's.
North Bertise Society's Bubsary ( $\$ 60$ annually for two years), for the best avorage in the second year, Albert E. Thomson.
alomni Association Prizes.-Srd year,-list, Roderick McKay; 2nd, Isasn M. McLean ;-1st year,-James S. Trueman; 2nd, Grahen Creelman.
The Guyernor Genrraz's Medals.-Gold Mcdul, John L. Georfo ; Silver Medal, John H. Cameron.

The Seuato of Dalhousie College havo presented Sir Wim. Young, their President, with an oil painting of himself by William Barratt, a young Halifax artist. The yortruit will be placed in the Collego Library.
J. J. Mackenzie, Esq., Ph. D., who occupied the post of LacLurer on Plyysics at Dalhousio during the past winter, has gone to Germany to continue his original resenches muder Helmhulta and Kirchoft:
Rev. D. Patterson, author of "Momsirs of Johnson and Mattheson," has presnnted copies of his book to all tho Dalhousie students.
The criticism of Wordsworth, in the April number of Belford's Monthly, wat from the pen of Professor Lyall, of Halifax.
Mr. Norman E. McKay, of Baddeck, C.B.; has passed the first M.B. Examination of the Unisersity of H:alifax, taking honours in overy subject.
The High School building in Halifax is progressing very satisfactorily.
Mr. J. A. McCabe, M.A., has published a fifth edition of his English Grammar; it is a great improvement on former editions.
This month, June, three of the Colliges in this Province close for the year ; Mount Allison first, the Acadia, and King's last.

Two mistresses of the Board School at Muroton Hampstead, Eng., have resigned, rather than agree to a resolution abolishing corporal punishment in the schools.
The Guldsuiths' Company of London, Eng, with a view to encouragement of teclmical education in the desgen and execution of works of art in the precious meials, prupose to give ammal prizes of $£ 50$ for the best design and $£ 50$ for the best model of some article in gold and silver, and $£ 25$ for the best execution and warkmanship of some such article, besides other prizes. A scholarship of $£ 100$ per annum is to be given to a student who shows exceptional talent, and who has secured a prize for design for three successive yenrs, to enable him to stndy art in precious metals on the contiuent.

Compulsory religious instruction in the problic schools of Genoa, Italy, has been abolished by the city authorities.
Oxford has put a new premium on scholarship. The Very Rev. the Vico-Chancellor has decreed that, according to the statutes, no one in the University below the degree of Mister of Arts is allored to keep a dog.

## ©eraders' Associations.

Tho publishers of the Jounnar, will be obliged to Inspectors and Secretarios of Teachers' Apsociations if thoy will sond for publicution programmes of meotings to bo hold, und brief accounts of meotings held.

## NORTH YORK

The Regular Jionting of tho above Association rill ho held in the Ist Division Bonm, Newmarket Mobel School, on Friday, June 2lst, and Saturday, Juno 22nd. J. M. Buchan, Esq., M.A., High School Insuector lias hinily conRented to bo presont. Ha will mako somo roinarks on tho tenciling of Euglish Literaturo or Grammar. or perhaps both. A public mejtug will bo liela in the ovening (likelyjia the Temperanco Hiall, when Mr. Iuchan will deliver a locturo on "Poetry and 1ºlitics." The otline subjects in the Programmo will bo as follows:-Arithmetic-lst Class Examination, July 18if. Sr. Torry; and Clas Examination. Decembor, 1877, Mr. F. Haight. Analysis.-Goldsmith's
 "Deserted Milate
lines, Mr. More: History, Jir. Soymour : Composition, Mir. Fotheringham ; ines, Mr. More: History, Mr. Soymour: Composition, Alr. Fotheringham ;
Algebra-Fenching to beginnors, Mr. Jones; Engliah LiLernture, Grammar Agebra-ionching to beginnots, Mr. Jones; Fingliah Liternture,
Rr. Buchau. W. Rannio, Socretary; D. Fotheriugham, President.

## NORTH HASTLNGS.

Tho North Hastings Teachers' Association will hold its noxt mooting in Mradoc Town Hall, on Juno 8th, at 10 nm . Subjects for discnesion :-1. Method of Teaching Writing. Dir. Norton; 2, Method of Teaching Fractions, Mr MackIntosh; 3, Method of Tenching Elemontary Grammar, Mirs Riddoll; 4, Mothod of Toaching Elomontary Reuding, Mr Nrackintosh; 5 , Analysis and Parsing. Mr. Curtis; C, Public School Examinations, Mr. Fullor. Roadings ure expectcd from soveral membors. W. Mackintesh, President.

## MUSEOEA.

Tho noxt resulnr meating of this association will bo held in Braccobridgo, on Thursday nad Pridas, 20th and 21st June. The Fion. Adam Crooks, LTiD. Ministor of Fducation for Ontario. Will bcppresont. J. A. ICLollan, LI,D., Inspector of Eiph Schools, andsJ. H. Sangster, M.A., MM.D., have bean invited. Proqrammo: Thursday-9 a.m. EDglish Grammor, H. Hoszin, I.P S. and Rot. J. Clarke : 10 am., The Potontial Mrood, A. IfcGill; 11, Geographr, T. White; 1i, Organization Xecting; 2, English Eistory, J. Drummonna; 3, Engish Eitera: ture, Ror. A. Findlay: 4. Euclid, Fop. J. S. Colo, P A. Friday-9. Rending, T. Clipsbam: 10, Jonranlism in Rolation to Education, W. L. Hamíton. B.K., T.C.D.; 11, EIVKene, S. Bridgland, M.D.; 2, Montal Arithmotic, H. Rosin, I.P8. ; 3 , Quostion Box. Committeo. A public locture Will bo dolircorod on Thurgday ereniog, by $\frac{1}{2}$. Roszin, I.P.S., or ono of tho gentlemon abore named. Jie. Morgan, Esq.i.P.s. for Simcoe, has giso jromisen to bo prosent, if posai-
visiting diays. Teachers aro requostod to prepare to tako part in tho discusgions which will follow each addross. T. Whito, Secrotary; H. Roarin, I.P.B., President.

## ELGIN.

Tho next regular mooting of tho above Associstion will bo hold in $8 t$. Thomas, Friday, tho 31st May, and Suturday, 1st June The attendanco of the Presldeut of the Ontario Tuachors' Arsocintion, Dr. J. A. NoLellan, MIgh School inspoctor, will rondor tho occasion ono of moro than ordinary interost. Programuio. Fridny, $91 a t$ May- 10 to 11 n.m., Genoral Business and Electiou of Gnicors; if tolin him., Writton Examinations for Pullic School Puyla, Mr. N. M. Campbell, Prucipal of Figin County Nodol School; 2 to 3 p.m., English
 Arithmotic, J. A. MeIolinn, L.L.D., High Bohool Inspoctor: 7.30 phm. . True Spirit of tho Tonchor, Mir. A F. Butlor: A Pnpor on tho Jolnt Education of tho Goxis, by J. Millna, 13.A. Head Mnstor of St Thomas Bigh School; Address by Dr. Ascledlan. Saturday, Iat Juno 9 to 10 a.m. Jeading. Dr. Noi, ellun ; 10 to 11, a.m., Object Toaching, Mr. S. C. Williame, Principal Aylmor Publlo School : 11 to 12., Question Druwer. Thomae Loitah, Socrotary.

## KINGSTON.

The Socond Annual Meoting of the Frontenac and Kingston Teachers As80. ciation will bo beld at the Court House, Kingeton, on Thurgduy and Friday, tho 13th;and 1fth June. 1878. Thursday.-Morning Session-11 n.m. to 12, Gonoral Busiuess. Afternoon Session.- 1.30 to $2.30 \mathrm{p} . \mathrm{m}$. . Spelling and Dictation, inroduced by irr. D. Atointyre; 230 to $330 \mathrm{p} . \mathrm{m}$., Goometry, introduced by ar College Robb; 3.30 to 4.40 il.m., Geometry, introduced by Prof. afacnun, of aber -Tho North-Wost of our Dominionic Fecture at 8 oclock by lroi. Mucoum, on Reading, introduced by Mr. J.Y. Wood; 10 to 11 a.m., Botany, introduced by Prof Alacoun: 11 a.m, to in. Question; 10 to 11 a.m., Botany, introduced by Prof Aucoun: il B.m. to 12, Questiony and Gonoral Discussion. Aftornoon
 to 3.30 p.m., Arithmotic, introducod ty Air. W. J. Summerby ; 3.30 to 4.39 p.m. Goneral Business (including oloction of omcors). On Friday ovening a Grand Moonligit Excursion among the "Thousand Islands" will take place. The
stoamer will leave the wharf, foot of Brock Street, at 7 o'clock, and return at stoamor will leave the wharf, foot of Brock Street, at 7 o'clock, and return
10. 'Cickets 25 conts. S. Ranton, Socretary. N. F. Dupuis, M.A., Preaident.

## DUREAM.

The first Convention of Teaciers, for the County of Durham, under the new Gegulations, will be held in the Public School Buildinge, Port Hope, on Friday and Saturday, Jund 7ti and 8th, 1878. Programme:- Fridey-10 mb. to by Organization and Elootion of Omcers: 2 to 3 p.m., Proparation of Lespons Literature for Eutrance, and 3 rd Class Certificatos $D$. Session. -8 prm. AtPublic Lecture Cliss Certincatos, D. J. Gogan. Evening of High Schools. Saturday, -8 to 10 a bo delivored by Dr. Melellan, Inspector Drawing J. H. Brown: 11 am . to 12 Lecture on Vision Dr. Bamiton. a.m. pm, Arithmetic Dr ircrollan. 3 to tocture on vion, 5 p.m. Ouestion Drawer, Questions to bo Composition, W. Olver, B.A. i 4 to B.A., Li.B. J. Squair, Becretary, A Purslow, B.A. ILL B , President.

East Kent.-The Teachers' Association was held in Ridgetown on May 17 th and 18th. Mr. Jrisoph Foy discussed the subject of "Writing," strougly adrocating a method which is new. It consists of a partly angular hand. In the afternoon Profeasor McLellan gave a rare treatin Arihmetic, by showing that problems, bihich are apparently hard are not so in reality, if we take a proper survey of the question to be solved. He was followed by Mr. W. M. Ward on "Geometry." Dr. McLellan next proceeded to take up the subject of "Reading," discnssing in his very able manner the essentials of good reading, drawing particular attention to fluency, distinctness, good pronunciation, expression, \&c., and urging upon all teachers to read alond in order to master the subejct before attempting to teach it to their scholars. He' then 'made a couple of selections and read extracts from them to illustrate the different methods of reading. In the eveving the Doctor lectured on "This Canada of Ours" to an intelligent and interested andionce. A hearty vote of thanks was tendered the Doctor at the close. On Satarday, after receiving and adopting the Secretary-Treasurer's financial report, Mr. Harrison, I. P. S., reported haring reccived a Government grant of $\$ 50$, which was voted to be applied to the library fand. The Association then proceeded to the election of offeers for the year, resulting in Mr. J. K. Moore as President ; Mr. G. W. Shelder, Vice President, and Mr. Joseph Foy, Secretary-Treasurer. After a number of motions relating to association matters, it was moved, seconded, and carried, that letters of delegation be granted by the Secretary to members of this Association who may wish to attend the Provincial Association. Neat came the discussion of "Algebra," introduced by Mr. Geo. Manro, and afterwards freely discussed by different members of the Association.

Josepr For, Socy.

## zeradings and Geritations.

## ANNIE LAURIE.

The night before the attacks on the Malakoff and the Redan, the British soldiers in the trenches before Sebastopol sang Annie Laurie. The song was sfarted by one at first, but was gradually caught np from line to line until it was sung by nearly the whole camp. The incident has been bcantifully described by more than one poot. A vory fine effect may be produced at an exhibition by having one pupil, a good singer, recite the following address to his companions to introduce the song. He should then sing the first stanza as a solo. and the division or class nesrest to him shonld join in the chorns. He should then sing the second stanza as a solo, and two divisions join in the chorns, so. The

Whole of the pupits elonuld bo divided into as many parts as the:o aro rorses in thesong, so that the whole school may singithe chorus to the last verso.

Brave comrades neath yon setting sun,
That gildsitho western sky,
The fairest isles of all the earth On ocean's bosom lic.
And many a mothor, sister, wife, And loving sweetheart there,
Will breathe to God for you and me
To-night a heart-felt prayer.
How gladly would wo go to-night
On furlough to the West,
Tospend one, blissfal hour at home With those we love the best.
What sprest re-unions we would have
By hearth and trysting tree,
With loved ones in the dear old land ;
But such things cannot be.
Before that sun again declines
We'll atorm yon Bussian towers,
And both the frowning Malakoft And dark Redan bo ours.
But many a gallant British heart Must bleed before they fall,
And few of as may live to see Ourfiag npon their walls.
Join then with me. Whilo jet we may, And in our spreetest tone
We'll sing of Annie Lanrie, but
Wo'll think each of his own.
ANNIE
LAURIE.


Her brow is like tho snaw drifl, Her throat is like the swan: Her faoo it is the fairest That e'er the sun shone on-
That o'er the sau shone on, And dark blue is her e'e, And for bonnie Annie Laurio I'd lay me down and dee.

Like dew on the gowan lying. Is the fa' o' hor iniry feet;
Like the winds in the summer sighing, Her voice is low and sweet,
Her voice is low and sweet, She'e all the world to me. And for bonnie Annie Laurio I'd lay me down and dee.

## THE DRUMMER-BOY'S BURIAL.

All day long the storm of battle through the startled valley swept; All night long the stars in heaven o'er the slain sad vigils kept.
Oh the ghastly upturned faces gleaming whitely through the night I Oh the heaps of mangled corses in that dim sepalohral light I
One by one the pale stars faded, and at length the morning broke; But not one of all tide sleepers on that field of death swoke.
Slowly passad the golden hours of that long bright sammor day, And upon that field of carnage still the dead unburicd lay.
Lay there atark and cold, bat pleading with a dumb, unceasing prayer, For a little duat to hide them from the staring sun and air.
Bnt the foeman held possession of that hard-won battle plain, In unholy wrath denying oveu burial to our slain.
Once again the night dropped round them-night so holy and so calm That the moonbeams hushed the spirit, like the sound of prayer or psalm.
On a couch of trampled grasses, just apart from all the rest, Lay a fair young boy, with small hands meekly folded on his breast.
Death had touohed him very gently, and he lay as if in sleep; Even his motleer scarce had ahuddered at that slumber calm and deep.
For a smile of wondrous sweetness lont a radiance to the face, And the hand of cunning soulptor conld have added naught of grace,
To the marble limbs so perfect in their passionless repose, Bobbed of all save matohless purity by hard, unpitying fues.
And the broken dram beside him all his life's shord story told: How he did his duty bravely till the death-tide n'er him rolled.
Midnight ceme with ebon garments and a diadem of stars, While right npward in the zenith hang the fiery planet Mars.
Hark! a sound of stealthy footsteps snd of voices whispering low, Was it nothing but the young leaves, or the brooklet's sunrmaring flow? Cliaging closely to each other, striving never to look round As they passed with silent shudder the pale corses on the ground.
Came two little maidens, - sisters, -with s, iight and hasty tread, And a look upon their faces, half of sorrow, half of dread.
And they did not pause nor falter till, with throbbing hearts, they stood Where the Dammer-boy was lying in that partial solitude.
They had brought aome simple garmetas from their wardrobe's scanty store,
And two hespy iron shovels in their slender hands they bore.
Then they quickly knelt beside him, crushing back the pitying tears,
For they had no time for weeping, nor for any girlish fears.
And they robed the icy body, while no glow of maiden shame CLanged the pallor of their foreheads to a flush of lambent flame.
For their saintly hearts yearned o'er it in that hour of sorest need, And they felt that Death was holy, and it sanctifiod the deed.
But they smiled and kissed each other when their new strange task was o'er,
And the form that lay before them its unwonted garments wore. Then with slow and weary labour a small grave they hollowed out. And they lined it with the withered grass and leares that lay about.
But the day was slow!y breaking cre their holy work was done, And in crimson pomp the morning again heralded the sua.
And then those little maideng-they were children of our foesLaid the body of our Drummer-boy to undistarbed repose.

## SCHOOL STATISTICS.

'Twas Baturday night, and a teacher ast Alono, her task pursaing;
She averaged this and sho averaged that Of all her class were doing.
She reckoned percentage, bo many boys, And so many girls all counted,
Ind marked all tho tardy and absentees, And to what all the absence amounted.
Names and residence wroto in fall, Orer many culumns and nages;
Canadian, Teutonic, African, Celt, And aseraged ull their ages,
The date of admission of every one, And cases of flagellation,
And prepared a list of the graduates For the coming examination.
Her weary head sank low on her book, And her weary heart still lnwer,
For some of her pupils had little brain, And sho could not furnish more.
She slopt, she dreamed ; it seemed she died, And her spirit went to Eades,
And they met her there with a question fair, "State what the per cent. of your grade is."
Ages had slowly rollod away, Lesping but partial traces,
And the teacher's spirit walked one day In the old familiar places.
A mound of fossilized school reports Attrected her observation,
As high as the Stste House dome, and as wide As Boston since anncration.
She came to the spot where they buried her bones, And the ground was well built over,
But labourers digging threw out a skall Once planted beneath the clover.
A disciple of Galen wandering by, Paused to lool at the diggers,
And plucking the sknll np, looked through the oye, And saw it wes lined with figures.
"Just as I thought," said the young M.D., "How easy it is to kill 'em "-
Statistics ossified every fold Of cerobrum and cerebellam;
" It's a great cariosity, sure," said Pat, "By the boner can you tell the creature?"
"Oh, nothing stange, said the doctor," that Was a ninoteenth century teaoher."

## ANSWERS TO QUERIES.

Will Candidates at the Intormediate Exarnination be allowed to nse the abbreviations given by Eamblin Smith in his Euclid? W. T. Yes.

Will those teachers, who taught three years and obtained a Second-Class Certificate of the lower grade, previous to seventy. five, have to attend the Normal after passing the Non-professional for a second grade "A." before a professional certificate of that grade will be granted to them. G. B. No.

Would you be kind enough to toll mo in your next Journal what History is necessary to read for 2nd Class Examination in July. Subscaiber.

The Eramination in History for Second-Class Certificates will be upon the work laid down for the Intermediate Examination in High Schools: Leading Events of English and Canadian History; also Roman History to the End of the Second Panic War.

## BOOK REVIEWS.

Laurie's Coxposmion Text Boons. Thomas Learie, Edinbnrg. First Steps, 6d., Practical Text-Book, 1s. There is no subject of equal importance which is so porrly taight as composition. Undoubtedly the went of a proper text-bcok on the subject has a good deal to do with the quality of the teaching done. These little books would be exceedingly useful to teachers in guiding them in the right methods. First Steps is not 80 much needed in Ontario,
as Swinton's Language Lessons more than supplies its place. The Practical Text-book, however, is a very valuablo book, and woula make an admirable 'lext-book for High Schools, and for the clasies above the third grade in lublic Schools.

In the Nen Dominion Monthly for May we see an uxceedingly interesting " Sketcls from Camadian History," which gives a very full account of the war of 1812 , especially of the actions of General Brock therein. "Two Scotish Heroes" is an accomit of the early lives of Androw and James Molvillo, who lived in loformation times. G. H. F. contributes an article on the late Georese Cruik-shank-whose portrait appears in the frontispiece-in which are cuts of several of his hmmorous drawings. "Tho Wolf of Badenoch" is a criticisua by a Backwoods farmer of a recent Camad.en work. A subject of rare iuterest to cthuologists is to be foumd in a paper commenced in this number. It is entitled "Monograph of the Dend-Dindjic Indians. These Indians dwell in the northern part of British North America, and their charncter, manners and customs, nud relationshy to other races were made a matter of onthusiastic study by the Rev. Father Petitot, who spent his lifo amongst thom. This work has been ably translated by Mr. Dong. las Brymner, of Ottawa. We way say further that Father Petitot hints at a "lost teu tribe" origin for these Iudians. The manner of hunting racoons is well deseribed in " Coon-Hunting," by Mack. In "Our Affectionate Townsman" wo find a description of the villainy of a "resurrectionist." For the Young Folks there is a selected paper, with illustrations, which tells about the School for Deaf-mutes in Boston, and the way in which the chldren aro taught to speak. In tho Home Department is begun an interosting story entitled "Lotty Farwell's Duty." Juder Literary Notices is an extract from "Macleod of Dire," Mr. Black's last novel.

The Mathematical Visitor. Edited ame published by f.rtemus Martin, M. A., Erie, Pa. 'This journal contains an admirable colloction of what are in the main original probloms, with solutions, together with a list of problems, solutions to which may be sent in during the year. Mr. Martin dirides the contents into junior and senior problems. The former class will be found to contain questions of interest to those who have acquired some skill in Mathematics ; the latter will entertain and instruct those who are acquainted with the higher departments of the subject. Among the senior problems will be found a numher on the application of the calculus to questions of chance. An interesting feature is the number of solutions by ladies, of questions in some cases belonging to the higher analysis. Altogether the journal is unite on a footing with the best English publications of the kind. We recommend it to our Canadian mathematicians. It is issued annually, price 50 cents, and may be obtained from Mr. Martin.

## 

Of Spechal Interent to Teachers. - We would drav suecial attention to gn advertisement in an another column of the Ontario Business College, Belleville, regarding the formation of special classes for teachers during the coming vacation. There will betwo courses: one in Book-keeping and Pemmanship, and the other in the full range of subjects required for third, second, and first class certificates. The gentleman who is to conduct the latter course is Mr. W. E. Sprague, Head Master of the Model and Public Schools, Cobourg, aud medallist of the Toronto Normal School. We have the uimost confidence in recommending those to whom the course meationed would be benoficial to avail themselves of the opportunity afforded. Belleville is a boautiful and healthy city and a cheap place to live in ; and we know that the tenching will be of the highest ordor.

- Wo would dircet attention to the announcement of Professor Ieewis' Elocution Class in our advertising colnmes. Tenchors could not spend thoir vacation moro pleasantly, and at the same timo profitably, than wisiting 'Toronio and atte ding the class of Mr. Lewis. 'loronto is rapidly becoming one of the most pleasant cities on the coutineut during the summer season. Tuanks to the proprietors of the numerous aud elegantly fitted ctanmboats that have their hendquarters on its bay, its population may bo daily on the water visiting the many ponts of interest in its neighbourhood at a very small expense. Those attending the Elocution Class will be able to have all the rest and recreation they desire. Professor Lewis has had a long experiense in teaching his subject. He has Liod very successful classes in connection with Knox College and the University of Toronto. He has also trainod many of the prominent professional and public men of Ontario.

From every quarter we are receiving most encouraging lettorsshowing that the Journal is making hosts of friends. Will those good people accopt our best thauks for their kind wishes and practical proof of their intcrest in the success of the paper. We give a few specimens " letters received:
" Enclosed find P. O. Order, for which please send me 10 copies of The Canada School Journal, addressed as directed. I expect to get a number more subscribers shortly."

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Very truly,

> S. M. Parsons, 488 Sagneurs St., Monireal.
> Markdale, June 1, 1878.

Dear Sirs:-Please find enclosed $\$ 1$ subscription to Canada School Journal. Address given above. As regards the value of the Journal to the 'Reacher, I might just state that I regard it as the best Educational paper I have ever read. No teacher should be without it. The general "get-up" is most excellent. It is very ably edited-wish it abundaut success.

Yours very truly,
Joun Henry James,
Teacher.
Inspectors and others, in sending information to the School Journal, will please write on separate sheets of paper from that containing amounts of subscription, \&c., also by making clippings from papers and enclosing in an envelope, rather than sending marked paper, as is frequently the case, much troublo is saved and. a greater certainty of the subject being brought before the notice of the Editors is secured.

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[^1]
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Wo commend it to tho consideration of school tonohers: thoy rill find it valuable in instructing tho youngor cluss of pupils.-Star, Cobourn.
It supplies a want long felt, and is just tho thing. No doubt it will find its way into all our schools.Guide, Port Hope.

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