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# The Canada School Journal. 

VoL. II.
TORONTO, APRIL, 1878.

Mil. JOHN JESSOP.
The nble and energetic Superiutendent of Education for the Province of British Columbia is a native of the County of Norfolk, England, where he was born in 1829. He came to Canada at the age of eighteen, and settled down for a time to a life of toil in what was then the backwoods of the County of Ontario, where he remained till 1858 . In thut year, compelled by a period of illness to give up physical labour, be attended for one session the Provincial Normal School in Toronto, and having obtained a certificate he commenced teuching in the County of Durham. In 1855, he soent a second session at the Normal School, and afterwards continued to teach till he left the Province. The gold fever had brosen out the year before in the Fraser River region, and this circumstance no doubt led to a revival of public interest in the great Northwest. More for the sake of seeing the country than of engaging in the search tor gold, Mr. Jessop made up his mind to seek the Pacific coart, and in May, 1859, he commenced the overland journey. The voyage from Collingwood to Fort William was made in the iron steamer Rescue, tien enmmanded by Captain Dick; and the route from Fort Willians to Fort Garry was traversed on foot or in canoes. The journey was made long lefore the Dawson Road was in existence, and occupicd a whole month. The route followed was for the most part coincident with the line of the so-called Dawson Road--up the Kaministiquia, across by portages to Rainy Lake, and down the river of the same name to the Lake of the Woods. From Rat Purtage the voyageurs followed the Winnipeg River to its mouth, crossed Lake Winnipeg to the mouth of Red River, and ascended thence to Fort Garry. The site of the now busy and populous city of Winnipeg was then almost free from houses, and though there were many farms along Red River, there were comparatively few settlers up the Assiniboine.

After remaining at Fort Garry a month, to recruit and lay in supplies, Mr. Jessor, started for the Pacifio with a single companion. When they reached Fort Ellice, however, they fell in with half-adozen adventurers of various nationalitios from St. Paul. The latter had been swindled by some enterprising colonization agent, and were ready to go anywhere in search of a livelihood. The journey towards the setting sun was made up the Assiniboine and Qu'Appelle Rivers to the Big Bend of the Saskatchewan, and thence

up the Belly River toward tis point where the furty-ninth parallel crosses the Rocky Mountai.s. For seven weeks the travellers found themselves traversing the buffalo country, and they were thus enabled to save a considerable portion of the flour they had brought with them from Fort Garry. It was fortunate that they did so, for they found the means of subsistence more difficult to procure as they approached the mountains. Falling in with a tribe of Blackfect near the boundary, they were kindly treated, and a Kootenay Indian, whom they found about to return to his tribe, conducted them through the Buundary Pass to the west side of the mountain range. The party had by this time broken up, and Mr. Jessop and his comrades reached Fort Colville on the fifth of November. This old Hudson Bay Fort is now abandoned, its place being taken by Fort Shepherd, on the Columbia, just north of the forty-ninth prallel. Fort Colville was 750 miles from the month of the Columbia, and the journey from there down to San Fran. cisco, and up to Victoria, oceupied the rest of the time till the beginning of 1860 .

Arrived at the latter place, Mr. Jessop found employment for three months in the office of the now defunct Gazette, before spending a fruitless year in the Cariboo mining region. He returned to Victoria, and entered once more into the journalistic field. The Daily Press was started by him, in company with a Mr. McClure, who at a subsequent date immort:lized himself in the colony by talking against time in the Legislative Assem. bly for the larger part of t:venty-four hours, the balance of the day having been filled up by one of the present members for Victoria in the House jof Commons, Mr. Amor de Cosmos. The object in view was to prevent the passage of a measure to which they were opposed, and in this they were triumphantly successful. As an illustration of the hardships amidst which the work of publication was carried on, it is only necessary to state that while one of the partners was composing the leading articles in the double sense of the term-that is, composing them mentally and setting them up in type at the same time-the other was doing the game with the news columns. In the autumn of 1861, Mr. Jessop commenced a private school, which he kept in operation for three or four years. In 1866, the Legislatare of Vancouver Island, then separate politically from British Columbis, created a radimentary school system, which subsisted till the union of the Provinces in 1868. During these two years, and down to the entranoe of British Columbia into
the Dominion in 1871, when for the first time responsible governmont was fully concedod, he continued to act as Principal of the Victorin Pubhic Schonl. During the first session of the Local Assombly the school system now in forco was aloptor, the then Provincial Secretary, A. Ruck Robortson, Q.C., being the framer of the measure. Uniter it, Mr. Jessop becano Provincial Sriperintendent of Education, and he discharged the laborious duties of his office unaided until he was supplied last year with a Doputy, in the person of Mr. Robert M. Clemitson. It should be added that he marriod, in 1868, n Miss Faussette, who at the time kopt a private school in Vietoria.
Mr Jessop made an unsuccessful attempt to onter public lifo in 1870. In that yoar he contested the District of Vancouver as a candidate for a soat in the House of Commons, but was defeated by a narrow majority.

## ©jleanings.

## EDUCATIONAL APHORISMS.

From the Cyclopedia of Education, E. Steiger, New York.

## language.

Things and words should be studied together, but things especially, as being the object both of the understanding and of language.-C'omenius.

He rho has no knowledge of things will nut be helped by a knowledge of words. - Luther.
The signs of thoughts are so intimately associated with thought itself, that the study of language, in its highest form, is the study of the processes of pure intellect. - Everett.
Speech and knowledge should procced with equal steps.Comerius.
We cannot express in words the thousandth part of what we actually think, but only a few points of the rapid stream of thought, from the crests of its highest waves. - Zschokke.

Language is the sheath in which is kept the sword of the mind; the casket in which we preserve our jowel; the vessel in which we secure our drink ; the store-house where we lay up our fond.Lnther.
Thinking is aided by language, and, to a great extent, is dependent upon it as its most efficient instrument and auxiliary.-Potter. SELF-EDUCATION.
The primary principle of education is the determination of the pupil to self-activity -the doing nothing for him which he is able to do for himself.-Hamilton.
The peculiar importance of the education of childhood lies in the conside.ation, that it prepares the way for the subsequent selfeducation of manhood.-Currie.

Self-activity is the indispensable condition of improvement; and education is only education-that is, accomplishes its purposes, only by affording objects and supplying materials to this spontaneous exertion. Strictly speaking, every man must educate himself. - Hamilton.

The child learns more by his fourth year, than the philosopher at any subsequent period of his life; he learns to fix an intelligent sign to every outward object and inward emotion, by a single impulse imparted by his lips to the air.-Everett.

If all the means of education which are scattered over the world, and if the philosophers and teachers of ancient and modern times were to be called together, and made to bring their combined efforts to bear upon an individual, all they could do would be to afford the opportunity of improvement.-Degerando.

## HINTS IN TEACHING.

1. Never attempt to conduct a recitation without special preparation. Always decido before beginning, what to do, how to dn it, and what to do next. Aım at something. The bow drawn at a venture seldom does nuch execution. Don't allow yourself to be diverted from your aim by chance remariss or incidonts. Esen a faulty plan, if adhored to, is better than none at all. When the recitation is finished, if your children cannot stato clearly what they have learned, consider the exercise a failure.
2. -4s a rule, stand when conducting a recitation. You are more likely to be alive yourself, and to infuse spirit and animation into
your pupils. If thoy soo you "taking it oasy," they will be apt to do the same. Chifldren are great imitators ; and enthusiasm, like yawning, is wonderfully contacious. Of the two, a noisy recitation is decidedly preferable to $\varepsilon$ sleepy one; and remomber that the hum of business is not, necessarily, disorder.
3. Never break in upmn a recifation to attend to matters of discip. line. I refor not simply to formal punishments, but to the numberless littlo interruptions that some teachors subject themsolves to. "Mary, sit ronnd in your seat." "John, put that knife away, and attend to your gengraphy," etc. If the mischief is not very scrions, take no, or littlo, notico of it till you have finished your exercise. You will thus be able to make your teaching more interesting, and so cure the disease, may be, without a local application.
4. Never raise your voice above the common conversational tone. If you do, you will be likely to get angry, and then make a fool of yourself in public. The wise teacher who sees an evil, will do ons of two things : if the evil can be cured, he sets himself quietly and persistently at work to do it; if it camnot be cured, but must be ondured, he makes the best of it, and devotes his time and strength to more promising subjocts. In no case does he fume and fret and scold about it.
5. Never uehip, or resort to any severc punishment till the day after the offence was committed. By so doing you will generally avoid punishing at all. You may find you wore mistaken in the pupil, the act, or the intent. You will be able to reflect, and act calmly and justly. Put yourself in the pupil's place. Remember children are not vipers or devils, and most of their troublesome pranks are the outcome, not of malicious premeditation, but of fun-romparatively innocent,-combined with a thoughtlessness not unreasonablo when their youth and inexperience are considered. Reformation can generally be brought about in a better way than by scolding and flogging.
6. Teach your prepils habits of personal neatness. See to it, in a kindly way, that nu child will be willing to onter the school-room in the morning without first having washed his face and hands, brushed his hair, clothing, and shoes, and cleaned his teeth and finger-nails. Do it rery kindly and discrectly, by speaking in a general way to the whole school, and, as occasion requires, to the pupil privately. However, I may as well say that the only effectual way to do this is by example, and no teacher whose own finger-nails are habitually in mourning need hope for much success in this department.-Ncu England Joumal of Education.

## WHY SHOULD TEACHERS BE TRAINED?

## Dr. Armstrong in the Teachers' Mfonthly, says :

If learning a subject be all that is needed in order to ieach it successfully, then, having tecth extracted should be enough to make the patient a practitioner in this department of dentistry. But, before any one would submit his eye-teeth to the forceps of such a graduate, would he not require that a little professional education in the art of handling his instrument of torture be added to the sympathy which his own experience may have taught him to feel for his patient? It is cruel to the teacher as well as to his pupils to send him to do his difficult and important work of teaching with so little idea of the nature and objects of his labors as he has been able to obtain in his preliminary studies.

Before the sculptor began his work upon the block of marble, he had an angel in it. He had a clear idea of what he wanted to form. He studied the capabilities of the block, and discovered what it would mako. Now he can apply his instruments understandingly. The rough angles are carefully and tenderly hewn off. The figure takes shape by degress. The limbs are soonfree, and the arms and hands relieved from durance. At length the features begin to beam with intelligence and love-the angel stands before him. How often the teacher, intent on making his work a success, commences his operations on the human being under his hand, without much thought of what he ought to develop, or :uny sufficient knowledge of the delicate and sensitive material awaiting his skill. He sees no angel in it. Ho has no ideal before him, toward the develnpment of which his labors tend, and has little thousht of what will be the result of his work. Should he succeed in te:ching certain facts and principles which he himself has been taught, he, in all honesty, considers that he has done his whole duty to his class, faithfully and well.

Misspent Evenings.-Tho boy who spends an hour ench evening lounging idly on the streot corners, wastes in the course of a yoar throo hundrod and sixty-five precious hours, which, if applied to study, would familiarize him with the rudiments of almost any of the familiar scionces. If, in addition to wasting on hour each evoning, he spends ten cents for a cigar, which is usually the case, the amount thus worse than wasted would pay for ten of tho leading periodicals of tho country. Boy, think of these thiugs. Think how much time and monoy you are wasting, and for what? Tho gratification afforded by the lounge on the corner or the cigar is not only tomprrary, but positivoly hurtful. You cannot indulgo in them without injuring yourselves. You nequire idle and wasteful habits which will cling to you with oach succoeding year. You may, in after life, shake them off, but the probabilities are that the habits thus formed in early life will remain with you to your dying day. Be warned, then, in time, and resolve that as the hour spent in idleness is gone for ever, you will improve each passing one and thereby fit yoursolf for usefulness and happiness.-Exchange.

Writing for the Press.-Wasto no time on introductions. Don't begin by laying out your subject like a Dutch flower garden, or telling your motives for writing. The key note should be struck, if nossible, in the very first sentence. A dull beginning often damis an articlo; a spicy one whets the appetite, and commends what follows to both editor and reader. Above all, stop when you are done. Don't lot the ghost of gour thought wander about after the death of the body. Don't waste a moment's time in vindicating your production, against editors or critics, but expend your energies in writing something which shall be its own vindication.-Exchanye.

Education.-Accustom a child as soon as he can speak to narrate his little experiences, his chapter of accidents, his griefs, his fears, his hopes; to communicate what ho has noticed in the world without, and to what he feels struggling in the world within. Anxious to have something to narrate, he will be induced to give attention to objects around him, and what is passing in the sphere of his observation, and to observe and note events will become oue of his first pleasures; and this is the groundwork of the thoughtful character.-Exchange.

Saxony.-Le Progres, of Brussels, states that, last December, there was founded at Dresden an institution which evidences, on the part of the Saxon people, a profound love for teachers and a great solicitude for those who devote themselves to this laborious career: it is an establishment, under the patronage of the Prince George, where female teachers of any creed may obtain board and lodging, as long as they are out of employment, at the very moderste price of 1.87 francs, or about 85 cents, per diem. The founders of this excollent institution propose to annex to it an asylum for female teachers, superannuated or infirm.
-Superintendent W. T. Harris said in his recent address before the Spelling Reform Association: "In this matter we of St. Louis can speak with positive experience. In the fall of 1866 the phonetic modification of the alphabet, as invented by Dr. Edwin Leigh, was tried in one of our pablic schools as an experiment, and the following year it was adopted throughout the Public Schools of this city, where it has ever since retained its place. By this system the child has a perfectly phonetic alphabet in so far as 'one sound for each character' is concerned, although it violates the third law of Latham in having more than one character for the same sound. Yet, even with this, we find the following advantages in the system, which is still in use with us after ten years: 1. Gain in time-a saving in one year out of the three years usually occupied in learning to call off easy words at sight. 2. Distinct articulation, the removal of foreign accent and of local and peculiar intonations. 8. The development of logical power of mind in the pupil. He can safely be taught to analyze a word into its sounds and to find the lotters representing them, whereas with the ordinary orthography it is an insult to his reason to assure him that a sound is represented by any particular letter. Hence, analytical power is trained instead of mere memory from the day of his entrance into school-and analytic power is the basis of all thinking activity."
-Teaching is an art. Men don't pick up art skill without much olose study and pationt toil. To teach is not like pouring grain
into the hopper of a mill. To teach is to dovelop, to train, to make men wiser, better, purer, happier and the music teacher has much of this work to do. To teach, requires more than more knowledge affords, more than a more acquaintance with the subject to bo taught. He who ains to train the minds and hears of fupils, ought to know something about the mind and heart of the pupil. The man of great knowledge is not necessarily qualified to teach becanse of his learning, no more than he in'y be gifted to speak in public. To possess or to acquire knowledge is one thing, to impart it to others is quite another. Yet fow will agree to this fact.-Brainard's Musical Monthly.

- A project is on foot to hold an cducational conference, composed of English and American teachers, and friends of education, in England, during the coming summer. It is assumed that a large number of persons interested in education will visit the exposition at Paris, and in so doing will pass through England ; and it is thourht that in this case it could be made convenient and pleasant to stop a fow days in London, or some other suitable place, and make the acquaintance of, and hold counsel with, their English brethren. We vote for the conference. Wo think it would do good. And the only dificulty in the matter is, as it occurs to us, whether there can bo assembled in England at any one time a representative body of American educators.-Pemn. School Joumul.
-Some yoars ago, the late Horace Mann, the eminent educator, delivered an address at the oponing of some reformatory institution for boys, during which he remarked that if only one boy was saved from ruin, it pays for all the cost and care and labor of ostablishing such an institution as that. After the exercise had closed, in private conversation, a gentleman ralliea Mr. Mann upon his statement, and said to bim: "Did gou not color that a little, when you said that all expense and labor would be repaid if it only saved one boy?" "Not if it was my buy," was the solemn and convincing reply.
-The chief ground upon which I venture to recommend that the teaching of elemeutary physiology should form an essentinl part of any organized course of instruction in matters pertaining to domestic economy, is that a knowledge of even the elements of this subject supplies those conceptions of tl e constitution and mode of action of the living body, and of the niture of health and disense, which prepare the mind to receive instruction from sanitary science. -Prof. Huxley.
-A young man was teaching in a district school when one day the following conversation took place: Teacher (to a little girl whom he sees weeping violently) - "What is the mattor, Fanny?" Fanny -"Je-Je-Je-Johnny's tryin't-t-to kiss -" Teacher (in-terruptingly)-"Johnny,were you trying to kiss Fanny?" Joluny"No, sir." Teacher-"But she says you were." Funn-"No-n-no, sir. He w-w-w-was t-t-t-tryin' to kiss M-MMaggie J-Jackson."
-All clementary instruction is wasted unless it leads to something practical. The study of drawing is a very broad one in application to practical life; and no course of instruction can be satisfactory that does not embrace its scientific and practical features as a basis. The study of drawing, as now taught in the public schocls of the country, can be regarded as neither an amusement or an accomplishnent. It is industrial in its character.
Industrial drawing does not mean picture drawing, or the drawing of the human figure, or birds, animals or miscellaneous objects generally, in the elementary instruction. Industrial drawing teaches the principles of design, as applied both to the form and to the decoration of all manufactured objects-develops the taste, the imagination, and the inventive faculties, and in such a way as to benefit every one who has to do rith form, either as producer, merchant, or consumer.-Dr. Hupp in Virginia Journal of Education.
-The following incident happened in one of the public schools in this city: Teacher-"Define the word excavate." Scholar"It means to hollow out." Teacher-" Constract a sentence in which the word is properly used." Scholar-"The baby excavates when it gets hart." -New England Journal of Education.


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## Tbe ciamada sibhool fommal.

Recommended by the Minister of Ealucation for Ontaria.
Reconmendred by the Council of Public Instruction in Qurbec.
Recommended by the Chef Supt. of Education for New Brunswick.
TORONTO, AI'RIL, 1878.

## SUMMER NORMAL CLASSES.

It is a common practice in some parts of the United States for teachers to organize a normal class for special instruction in certain subjects during their vachtion. There are some suljects, such as Drawing, Music, Drill, Writing, Elocution, etc., which have not yet been at all fairly taught in our schools, and most teachers FEEL and many acknooledge their inability to teach these subjects properly. By means of these vacation classus they can obtain the necessary instruction to enable them to do so. A cbeerful retired place is usually selected for the class, and only a portion of the time devoted to study, the remainder being occupied by recreation and rest. If any Canadian teachers desire to make suggestions regarding such classes, they may do so in the Journal.

## DISHONESTY AT EXAMINATIONS.

Owing to certain irregularities in connection with the Intermediate Examination at St. Thomas, in July, 1877, which were investigated by Mr. Buchan, High Scbool Inspector, an Order in Council was passed to prevent the issue of Intermediate Certificates to the candidates concerned, and taking away the Government grant for then from the St. Thomas High School Board. The High School Board of St. Thomas petitioned the Minister of Education for the withdrawal of the Order, and were suc eessful, as the following resolution passed at the last meeting of the Board will show :
"Resolved, that the thanks of the Board be tendered to Dr. Whlson, M.P.P., for his successful exertions in obtanning a reconsideration and reversal of the Order in Council taking away the certificates of soveral teachers who had obtained the same at the last intermediate examinations and withdrawing the Government grant to the Board for said pupils."

Of course, forgiveness is not extended to those pupils of St. Thomas High School who had possession of the examination papers before the examination.

It will doubtless be felt by some, that the Minister of Edu-
cation was unduly lenient in his punishment of the offending candidates of July, 1877 ; but it must be remembered that the papers had been purchased for some years before the examinations were held. It was therefore impossible to detect all the offenders, and it would scarcely have bee. fair to punish the fow with the clear conviction that the many were escaping. It was the knowledge of the fact, that the papers had been obtained in former years, which led the students of 1877 to try to obtain them. They have received more punishment already than many others equally guilty, because their names !ave been published to the world in a most undesirable connection, and they have lost the certificates for which they wrote. No doubt all honest teachers sincerely wish that all who ever had papers before the examinations took place could be convicted of their wrong-doing. We join them in that wish. As this could not be, however, wo think the Minister acted wisely as well as charitably in allowing the convicted students.of 1877 the privilego of writing again for certificates.
In the case of Intermediate Examinations it is of the utmost importance that great care be exercised by Public School Inspectors in selecting the presiding examiners, when it is necessary to have substitutes appointed. There has undoubtedly been considerable laxity on the part of some "substitutes" and even some Inspectors in the past. Some men have such un. bounded confidence in the integrity of candidates. It is 8 matter of deep regret that they are not always worthy of the confidence so innocently reposed in them. High School Masters cannot always be blamed, when their jupils act improperly at an examination. They are not allowed to be in the room while the examination is going on. True, they should train their pupils to be honest and manly; but a pair of practical eyes will do much more to make pupils honest at an examination than any theories. No honest boy or man either fears to be watched.

We have no fears that the Minister of Education will cepeat his leniency in dealing either with High School pupils or candidates for certificates. Any communication in an examination hall should lead at once to the expulsion of the offender. The regulations are quite clear on this point, but regulations need to be carried out by trustworthy and competent examiners. The Department should satisfy itself thoroughly as to the fitness of every substitute before he is suppointed. We would be glad to see a law placed on the Satute Book, making it a felony to sell examination papers before the date when they are to be submitted to candidates by the proper authorities.

## A TEACHERS' ASSUCIATION FOR CANADA.

No one who knows anything of the history of the Ontario Teachers' Association will deny that it has been largely instrvmental in bringing about educational reforms of various kinds, and that to its existence and operation are very largely due the present excellence of our school system in this Province It has urged upon the attention of successive Governments and Legislatures the necessity of changes in the law, until these changes were in substance, if not exactly in form, effected, and it has laboured earnestly for the improveneni of teaching.
nethods with a degree of success which only those who knew what achool teaching was like fifteen years ago and what it is like today are in a position to appreciate. Not less carnest or less successful have been the efforts of the Association to improve the system of text-books, while its influence has been steadily and effectively directed towards the elevation of the teacher's professional status and the cultivation of esprit de corps.

We have no reason to doubt that a similar good work has been done by Teacherg' Associntions in other Provinces of the Dominion. In some cases incontrovertible evidence of this has been brought under our notice, and in Provinces with which we are less intimately acquainted, we have been assured that the most gratifying results have followed the formation of Associations for large districts. Much remains, no doubt, to be accomplished in this direction, but this need not hinder us from contemplating with some satisfaction the good already done.

The degree of success which has hitherto attended the working of Provincial or District Associations suggests the expediency of making an earnest effort to orginize one for the Dominion. This is a project which Las often been talked of, and though there are obstacles to over:ome it certainly appears feasible enough provided the results to be achieved are sufficiently important to warrant the attempt at overcoming them. From a national point of view an annual convention of Canadian educationists is certainly a desideratum. We are not yet, as Canadians, in a position to disk ense with any aids likely to help on the work of consolidation, and one of the most important of these aids would be a community of ideas on educational subjects, and free interchange of views with respect to them. Underlying the educational system of each Province will be found certain general principles which are common to all, but there will also be found a great deal of variety in the modes of applying them. These variations, due often if not always to local causes and conditions, frequently contain useful lints to the educationists of other Provinces than the one for the time being under consideration. It would be simply impossible for an intelligent and experienced teacher of Ontario to study attentively the peculiarities of the school system in Quebec, for example, without having his educational horizon widened and himself made by this very process a more competent member of the profession. We do not propose to enter just now into a discussion of the peculiarities of the different Provincial systems; it is sufficient to know that such peculiarities exist, that educationists everywhere would be all the better for being more acquainted with them, and that the best way to make them so is to bring them into association with each other in Conventions. We trust that this matter will be brought up during the year at the various Provincial Conventions, and that a determined effort will be made to have at least an experimental meeting of delegates from all the Provinces at Ottawa.

## THE TEACHERS' ASSOCIATION.

"What is the proper function of the Provincial Teachers' Association ?" is a question that deserves the attertion of the Teachers of Ontario at the present time.

It certainly docs not require to do Snstitute work. The County and City Toachers' Associations, established under the Regulations of the Education Department, perform that duty most offectively. Comparatively few teachers can atiend the Provincial Convention ; all murt attend the meetings of their Local Associations. Those who attend the Provincial Association meetings are those, as a rule, who have le:st need of irstruction in methods of teaching.
There remain, however, two most important functions for the Provincial Association. It should discuss and express opinions in the form of resolutions on the educational affairs of its own Province; and it should devote a fair share of attention to the consideration of the great educational questions of the age. In order to do either of these properly the Provincial Association ought to be representative. All will agree, that, if its resolutions are to huve their due effect, it must be representitive in character, if not in constitution. To be representative in character it should consist of delegaizs from all parts of the Province, and from each of the three classes of school workers, Inspectors, High School Masters, and Public School Masters. In the first respect, at least, it has not yet become reprisentative; and however great the ability and long the experienco of those who now attend its meetings, their opinions and votes would bear more weight, if they were given not merely as their own, but as the expression of the views of the teachers of associations which they represented. The Government gives a liberal grant in aid of the Associations in each Inspectoral district. Part of this grant might very properly be spent in paying the exprenses of delegates to the Provincial Association. These delegates could bring with them the opinions of the teachers on matters of immediate and special interes! to Ontario, and they could take away with them intelligent views regarding the educational problems of the world. The Association would thus be the means of bringing the educational light of the Province to a focus, and of reflecting this light in its increased brilliancy and power.

## $\mathfrak{C}$ ortributions and $\mathbb{C o r r e s p o n d e n c e .}$

## SCHOOL PRIZES. <br> THEODORE H. RAND, D. C. L., Chief Superintendent for New Bruswoick.

Much has been written by educational authorities both in advocacy and in condemnation of Prizes; but all discussions of this subject which fail to take account of the conditions on which prizes are antarded, overlook that which, in point of fact, really determines the legitimacy or illegitimacy, the benefit or injury, the wisdom or unwisdom of School prizes. To offer to children under fifteen years of age prizes for proficiency in special subjects is indirectly to offer inducements for the neglect of other school studies. The recipients of such prizes will almost invariably be those who not only needed no extraordinary stimulus in the direction in which it was furnished, but who, having their activitios diverted from subjects in which they were not proficient, or else being stimulated to overwork, become the ready victims of a system which has not the sanction of any sound educational principle, but of long time custom only in its support. To offer prizes for regularity, or punctuality, or good conduct, or diligence, or any
combination of thoso, is to elovate one or more virtues in the mind of the child by indirectly depressing every other. Every membor of a well-ordered School must become acquainted with a variety of subjects of study, and have varied dutics to perform. Evory subject and duty is equally important to the pupil as a member of the School, and the regularity, promptness, guod spirit and devotion with which every schnul obligation is discharged, are scarcely if at all of less moment than the obligations themselves. If it is unsound to omphasize the importance of one prescribed intellectual task to the indirecc disparagoment of another, it is nu less unsound to omphasize intellc tual attainments to the virtual exclusion of other eloments of a successful school life. The converse is equally true. But it is legitimate and wise to acknowledge and roward those who distinguish thomsolves in the discharge of all their ubligatiuns. ces members of the Suhoul. The cunditiuns, therefure, un which Schuol prizes should be awarded, must include regularity and punctuality of attendance, conduct, quality of school work, and application to all school duties; and these clements of schuol life are nut tu be divorced from each other, but regarded as parts of une wholucharacter. Prizes thus conditiuned would affurd a pleasaint and many-sided stimulus to overy pupil, and would prove an important auxiliary to the efforts of Parents, Teachers and Trustees in behalf of regularity of school attondance, and at the same time facilitate the best discharge of every other school duty. No prizes shuuld be offered in any school except through the Board of Trustees, whu should be responsible for the character ard general suitableness of the same. These prizes should be awarded by the Trustees on the written report of the Teacher of the Schoo' or departmont.

## METHGD.

by J. b. CALEIN, M. A.; PRINCIPAL NORMAL SCHOOL, TRURO, N. S.

## I.

A child seems to be a bundle of paradoxes. His likes and dislikes often appear to be contradictory and capricious. In nothing is this more apparent than in his attitude with respect to new trath. He is irropressible in his curiosity to pry into the unknown; importunate with his questions to find out why this is so, and what that is for; and yet, no sooner do we adopt a systematic plan for satisfying this craving, then he regards our eforts with indifference and opposition. The school-room is to hicz a prison-house, and lessons are tasks burdensome as Egyptian bonu. re.
But the child is not such a contradiction as we may inpose. If we examine his case, we shall find that it is perfectly simple and intelligible. The mistake is where it generally is-with the ons who fancies all the world wrong but himself. It does not follow, because the chemist in his laboratory can by some chomical process $c$ nvert sawdust into starch or sugar, that we ought to consider sawiust good, nutritious food, and that we should be greatly surprised that an animal fed on it becomes emaciated and dies. The fact is, wB often present to the child as knowledge, something which to him is no moro knowledge than sawdust is food. Of this nature are those general principles and abstract statements with which the young learner is toc frequently bewildered and discouraged. No one would expect a child to gain any ideas from committing to momory the words of an unknown language. No one would expect him to tuke an interest in such work. Nor should we hope for any better results from learning unintelligible English words. The child's reflective powers are yet feeble; he has used them but little; aud that knowledge which is the product of thought, generalized truth, is to nim wholly unintelligible. Ignoring this fact, we block up the way to almost every stady by an
impassable barrier of rubbish in the form of definitions. Our arithmetics, geographies, and espocinlly our grammars, give ample proof of this absurd practico.

Tho beginnor should be mado to feel that knowlodge is a matter of things, and not of mere words. Wo should present knowledge in the concrete form, givo individual objects and examples for the child's inspection. By examining these individuals, and by comparing them, he frames his own definitions and deduces his own rules. In pursuing this courso, overy step the child takes is intelligible; the dea is doveloped first, and then he receives the appropriate term or expression to ropresent it. We shall find, too, that as we are gratifying the natural desire for knowledge by giving the genuino article, the child's interest is awakened, and his attention is fully secured. But, further, that exercise of thought by which he works unt the definition or rule for hmself, tends to strengthen and develop mental power. $\mathrm{H}_{0}$ is encouraged and made confident in himself by a consciuusness of power, and a feoling that he is capable of becoming an independent worker in the search after truth. Instead of taking knowledge second-hand, ho begins to realize that he can get it fresh from ats very sources in the field of nature.

Teaching principlos through examples, sometimes called the Arulytu Method, and also the Inductuve Method, 18 carried on thruagh the medium of oral lessons. It affords a fine opportunity fur the display of skill on the part of the teacher. The child is placed in the position of an invesugator who is exploning a new subject. The work must not be simply an investigation conducted by the teacher in the prosence of the children as silent spectators. The learner is not to be treated as a passive being, or $n$ mere receptacle of knowledge. In fact, the knowledge acquired is of less value to the child than the discipline and power which he secures through the efforts which he puts forth in obtaining that knowledge. The learner is a co-worker with the teacher: and he is guided in the working out of knowledge by a process of questioning carried on by the teacher.

The method of teaching here indicated will be exemplified in a future number.

## THE FIRST STEPS OF READING AS TAUGHT IN NEW BRUNSWICK.

BY WM. CROCEET, A. M., PRINCIPAL NORMAL SCHOOL, FREDERICTON. Perhaps the best way to gain from paper an idea of the method of teaching the First Steps of Reading as practised in the schools of New Branswick is to visit in imagination one of these schools and witness the teacher at work on a lesson. A class of little children is in front of her. She has secured their attention by a short and animated conversation held with a view of ? ..ding them to use the words which are to form the subject of the lesson, and of developing those pleasant tones which are to be carried into their reading. The visitor will see that the teacher has so diverted the conversation as to lead them to express in words some one idea which she has brought vividly before them. Her object is now to teach them to recognize in printed form the words they have just used, and to this end she prints the sentence neatly and rapidly on the blackboard, at the same time ongaging their attention by heeping up the conversation. Suppose such a sentence as "Tom has a dog" is the one in question.' The children, while observing its form, ropeat it simultaneously and individually. They are then required to distinguish it from among other sentences placed on the blackboard. In this way the sentence is recognized as a whole; the separate parts of it are yet, however, unknown.
As a first step towards leading the ohild to the recognition of
the individual words, at lenst in the earliest stages, the tenoher may be observed to transpose the order of the sentence, not by reprinting tho words, but by pointing to them in the sentonco, naming them at the same time-e. g., she would point to has, naming it, then to Tom, and last to a dog. Such an order is taken as shall make complete sense, and the pointer, guided by the tenchor hersolf, is made to move rapidly from word to word, so that the sentonce may be read with the same rapidity as before transposition. It is seen that the teacher's object in this exercise is not to im press the form of the individual words, but to lead the children to see that the whole is made up of parts. (At a later stage this transposing esurcise is disponsed with.)
The class is now prepared to deal with the separate words. An observer will perceive that the teacher does not select the words promiscuonsly, but calling upon the children to re-read the sentence requires them to stop at the worl whose form sbe means to drill upon, thus leading them to name the word without being told, and keeping up the connection between the part and its whole. It is also seen that the teacher takes care to deal first with those words which the children can readily associate with some object-e.g., Tom ur dug. When the word has been named, and attention called to its form, various oxpedients may be adopted to impress it-to select it from a list of words in which it repeatodly appears, to name it each time the teacher prints it, and to throw it when practicable into some sentence already known by the class. Each word of the sentence is dealt with in a similar way, after which the children themselves are required to form other sentences by transposing the order of the words, an exercise whillh is often amusing and at all times profitable. It is scarcely necessary to say that before the whole sentence is mastered in th wav described several lessons will have to be given, no lesson exceediag a quarter of an hour in length. When several sentences have thus been taught the visitor will observe that they are then arranged so as to form an interesting story on one subjeot, and the Lesson Cards prescribed by the Provincial Board of Educationwhich are constracted so as to be used in this way-are taken advantage of, and render the printing of the story on the blackboard unnecessary. The chuldron are prepared for each story on the card in a similar manner.
When the cards have been mastered, the crildren ats introduced to the Primer, whioh contains no word that they have not hitherto met with on the cards. Dfferent stories are formed merely by a different arrangement of the same words, and each lesson is invested with fresh interest, just as the different arrangement of a chid's toys affords it now delight.
When aboat balf the lessons of the Primer can be read with ease and fluenuy, and each word in them readily recognized, the process uf phonic analysis is oommenced. The teacher is observed to select some word from a sentence of their reading lesson-e.g., the word mat. When it has been pronounced by the children, they are required to imitate the sounds as given slowly by the teacher, $\mathrm{m}-\mathrm{a}-\mathrm{t}$. The pupils repeat the separate sounds several times, and are thus led to see that the word consists of three sounds. The first of these, $m$, may be selected as the sound to be drilled upon. The character is printod along with other letters on the blackboard, and the sound given each time iv is pointed out, and difforent expedients may be adopted to impress it, as in the case of the word. Each sound is evolved in a similar mannor-the exercise being generally taken previous to the close of a reading lesson. Before the Primer has been finished, the children have become acquainted pith the elementary somuds, whether represented by one letter or more.
As they become acqueinted with several sounds, they are lsd to
see their use in the formation of words. During their first exercisev in these lessons, monosyllabic -ds of two letters are talen as the root out of which other wordia are made to grow, as it were, by prefixing a sound-e.g., from at aro formed by prefixing the sounds $\mathrm{c}, \mathrm{f}, \mathrm{r}, \mathrm{s},-\mathrm{c}-\mathrm{nt}, \mathrm{f}-\mathrm{at}$, r-at, \&c.; from in, by profixing $\mathrm{t}, \mathrm{f}, \mathrm{d}$, -t -in, t -in, \&c. When all the sounds are known, and their uso drilled upon, the children aro put in possession of a power by which they can ordinarily make out new words which they may meet with in thoir stibsequent readiag. The names of tho letters of the alphabet which are of no use to the pupil till he begins oral spelling, which should not be during Primer work, are learned without any formal instruction. The course whick has beon des. cribed is very satisfactorily accomplished in one yoar. Nothing 18 gainod by attempting tc accomplish it sooner with pupils who onter school about five years of age.
This method carries out the true theory of teaching reeding, which is to enatle the pupil to recognize in visible furm the language he daily employs. The ciild, at the age wo are considering, expresses his ideas not in dotached wurds, but in sentences. It 13 true that the word Tom or dog will suggest an idea, but that idon implies a notion of doing or being, and which when expressed will assert something of Tom or dog. The sentence, therefore, is tho smallest whole which should be presented to the child.
The method is on: the priaciple of leading from the known to the unknown. The teacher, in Ler proliminary convorsation, takes care that the sentence which is to furm the subject of the lesson is understood, and conveys a distinct and defuite ider. The unknown thing to be taught is the visible expression of that idea. It carries out to the full extent the principle which pervades all sound elementary teaching-the wholes before parts, analysis of the sholeg, and the recomposition of these parts into wholes.

It appeals to the intelligeace of the child from the catset. Unless a symbol is the representation of some idea either just excited, or previously existing in the mind, the impression made does not act on the intelligence, but is remembered merely as a matter of sight and sound, without connecting it with any idea intended to be conveyed. The names of the twenty-six letters, the knowledge of which was at one time deemed necessary in order to be able to read, were, besides a hindrance to reading, nothing more than twenty-six seeing sensations with which no intellectual activity could possibly be associated. The sounds of the letters also, unless evolved from wholes or known words, are so many hearing sensations, but of a more mysterious character, because heard nowhere outside the schoolroom. In the method described, a source of pleasure is initiated by the child's associating the symbol with the mental conception. By such a process, the associating of idea and symbol becomes habitral, and if after a time the language the ohild meots with sha ald ropresent nuknown ideas, these will be sought for by the mind, aud an intelligent cariosity will bo excited in regard to them. The child will come to feel that there is something to be known in connection with any words or langagge that may be strange to him, and the impressions made cannot but lead to inteilectual action.

## ENGLISH LITERATURE.

Entrance Exauinanion for Hige Schools.

THE NORWEGIAN COLONIES IN GREENLAND-BY MR. ARNOLDUS MILLER.

1. By what other name are the Norwgegians known?
2. Who was the founder of these colon?es?
3. From what country did he sail?
4. How did he induce the colonists to leave their home ?
5. Does the name "Greenland" convey a correct idea of the
oharacter of the country? Give reasons for your answer.
6. To what country does Greenland bolong?
7. Write briff notes on "Leif," "Olaws 'hryggeson," "Magnus," " Skraellings."
8. Explain the meaning of "Osterbygdt," " Westerbygdt," aud mention seme other worde simular in meaning and baving a similar ending.

9 State the events that happened in these colonies in 1256 and 1348.
10. What c!annge has taken place on the coast of Grcenland siner the establishment of these colonies?
11. Durmg what centuries did the events narrated in this selection take place?
12. Tell what you know of Capt. Scoresby.
18. Give the routs of "dissnminate," "exaggerate," "exodus,"
" missiouaries," "gospel," " churches," "hamlet," " flourished,"
" marvel," " armament," " period," "'king."
14. What is the prefix in "subject?"
(a) Give its various modifications.
(b) Give the meaning of suffixes "ly," "ry," "al," " ic," "en," in the words "completely," "contury," " original," "domestic," " wooden."
15. Define " benichted,"," naval armament," "wrapt," "em. barrassed," "amnihilated," "aborigınes," " drill," "esodus," " disseminated," " dispensation," " oblivious," " barrier."

## ENGLISH LITERATURE FOR THIRD CLASS TEACHERS.

the origin of the englibh nation.-fifti book, page 140.
By J. D. CHRISTIP, BiA.

1. Gire the derivation of excrtion, physical, homogeneous, enmity, anuals, identity, colleges, uptitude, pnet, gentleman, literafure, Nor mun, islander, explaiumg fully the force of the prefises and suffixes.
2. Write notes on William, Harold, Cinque Ports, House of Commons, ancient Colleges.
3. Explan the meaning of the following espressions: Morally separated, homogeneons mass, archetype, Lanyuages of the South, Neu. World, daven of that noble literature, Imperial jurisprudence
4. "The history of the preceding events is the history of wrongs irflicted and sustained by varions tribes." "Tben national character began to exinbit those pecularities which it has ever since retained." "Sterile and obscure as is that portion of our annals." "The great English people was forued." "The common law rose to the dignity of a science." Paraphrase fully the preceding quotations.
5. Macaulay says: "Here (1215) commences the history of the Euglish nation," Collitr says: "True English History begins with the reign of Henry VII." Reconcile these two statements.
6. Give a biographical sketch of Macaulay, describing his college life, his travels, and hus political career.
7. In what departments of literature did Macaulay distinguish himself? Mention his clief works.
8. Name the English historians who preceded Macaulay.

## ENGLISH FOR HIGH SCHOOL ENTRANCE.

founding of nobth amarican colonies.-by a. hcgill.

## Grammatical.

P. 80, line 1. In what mood is the verb? Is the form correct?
" 4. "Details." Where is the accent? To what rale is it as usually, and correctly, prorounced, an exception?
" $5 \& 6$. "Leaving out of view, \&ic." What sort of a clause? Point out similar constructions on the page.
" 8. "Colonizing." Is this the same part of the verb as "exploring" in 1.5 ?
" 12 \& 18. "The namo of Cape Broton." Is the preposition needed ? Discuss.
"14. "Nearly twenty years later." Parse these words fully.
"17. "As touching, \&c." Discuss.
P. 81, " 1. "Was shortly afterwards joined Roberval." Are the adverbs correctly placed? What difference in meaning would result from the use of the verb in the active roice?

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P. 81, line 2. "To plant a colony." To plant n tree. To
                plant a field with trees. To plant one's
                foot. Give synonyms.
    " 16. "Was cousolilatimg." What tense? Parso the
                words separately.
            " 19. "As well as." Parse cach word. Re-unite the
                sentence, separating this phrase.
            " 20. "Were being formed." What tense?
            "21. Is "purpose" correctly used in the singular here?
            "29. "Possossion was taken of the country." Ro-ar-
                rango these words.
            " 81. Parse " privations," aud "contests," in line 82.
            " 34. " It." Fxplam the force of the pronoun.
            " 39. "There landed, &c." Note tho frequent ohange
                of tense in this sentence. Can it be justi-
                fied?
P. 32, " 6. "As an nsylum." Parse these words.
            " 12. "Emıgrants." Distinguish from "limmigrants."
            " 17. "So was founded." Illustrate half a dozen dif-
                ferent usages of "so."
    " 21,22. "Its commencement was, however, by the
                Dutch." Explain this construction.
            " 23. "When." Explain. Also explain when in "Ho
                camo when I did."
            "25. "Is the word originally noeded here?
            " 27. "Characteristics." Explain.
                Historical, &&c.
1. Give some account of the first discovery of the lands of the new world.
2. What islands and what part of the contizent of South Amorica did the Spaniards colonize?
3. "Basque and Breton rishermen." Explain.
4. What is the origin of the name of Newfoundiand?
6. Write short notes on Vernzzano, Francis I., Jacques Cartier, Ruberval, Henry IV. (of France), Champlain, Raleigh, Sir Humphrey Gilbert, Henrietta Maria, Charles II., Win. Penn, and Heury Hudson.
6. "St. Lawrence." Why was the river so named? "Virginia, in honor of the maiden queen." What queen?
7. Who were the Pilgrim Fathers?
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## Words whose Etymology is interesting and important.

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Century, colonizing, _ideavors, considerable, dissensions, course, amicable, confederacies, science, pioneer, disastrous, expedition, auspices, flourishıng, exodus, conscience, exiles, inaugurate, asylum, Pennsylvania.
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## voyage of the " golden hind."-by richard lewis.

1. In whose reign did this voyage take place?
2. What objects had Sir Humphrey Gilbert in view in this expedition?
3. What is meant by "the patent," and why did he recuire a patent? Give the derivation of the word, and its general m:aning and approprinteness.
4. Wiat disantery are referred to at the commencement of the lesson?
5. Show why Sir Walter Raleigh took such interest in this expedition, and why alter engagug in it he deserted it.
6. What othr nawgators Lad been engaged in similar enterprises. and with what fesults?
7. State what leading motive governed the explorers of the age, and give reasons, if there be any, to show that Sir Humpnrey's motives were higher than those of his contemporaries.
8. Explain the meaning of the figures on the "jewel" presented by the Queen: "an anchor guided by a lady."
9. What is meant by "taking formal possession of the country ?"
10. Describe the ceremonies with which the act of taking possession was done.
11. By whose authority were these acts generally done, and how can they be justified?
12. "They were well received by the ships of various nations." Name the nations that were probably represented on that occasion, and state which were the most distinguished for maritime power and discoveries.
13. How could Sir Humphrey Gilbert "take possession of the country" when other nations were there before him?
14. Name the regions of North America which had already been discoverod, and their discoverers,
15. Explain the torms salvo "f ordnince, sumblings. beurbigs of the harbor, barque, cutter, frigate, nill abujt.
16. Why did Sir Humphrey select th. "cutt.r," and hiw did he show his courage and devotednese in inathuri that sel cama?
17. Explain the torms " mineral men;" give tho scienufic name of the clase, now in use, and give rensons, if there be any, to show that they were docoived in beheving the ore they found to be silver?
18. Name the figure of speech used in comparing the amusements of the sailors to the singing of the dyiug swan, and show how it was and was not approprinte.
19. Describe the chief difficulties with which Sir Humphrey Gilbort had to conteud; show what qualities of mind he displayed on the oncasiou, and what sustained him to the last?
20. Explain what he meant by saying "We are as near to heaven by soa as by land," and of what mental quality did this give evidenco.
21. How should that quotation and the words of the watch, "The general is cast awhy," be vucally read to distinguish them from the general uarrative?
22. What is the grammatical object of "cried" in the above extract, and the antecedent of "which was true?"

What parts of speech are " withal," "whereof," and "true," and their relation?
23. Parse "delight," "near," and "shore," lines 22, 23, p. 35.
24. Give the meaning of chronicler, faculty, morris dancers, con. ceits, incredible and bottell. Explain the origin of Monday, and show the difference in the meanmg of the word conceit as used then and now.
25. Give synonyms for equip, disaster, boisterous, outrageous, marine, reiterate, allurement. Write out an abstract of this estract embracing only its loading foatures.
26. In the reign of which of the other Tudor monarchs wore discoveries made, and by whom and where?

Pioton, March 11th, 1878.
Mr. Ediror, - Dear Sir:-I begto propose, through the medium of your Journal, the propriety of arranging for the holding of one or more Teachers' Holiday Institutes during the next summer vacation, either on one of the Thousand Islands of the St. Lawrence, or at some other suitable place of summer resort. In this way I think mutual improvement and recration may be pleasant. ly combined. Who will second the motion? Yours, dic.,
G. D. Platt.

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Communioations intended for thite part of the Jourval should be on eaparate sheots, writteu on only one side, and properly paged tn prevont mistakis. ALFRED BAKER, B.A., EDITOR.

At what distance above the surface of the earth must a person be to see one-fourth of its surface?


Let $A O B$ be a quadrant of a section of the sphere through its centre, $P Q$ a small arc, $Q R$ perpendscular to $P M$. Then as $P$ approaches indefinitely near to $Q$, the chord $P Q$ ultimately becomes the tangent at $Q$, and angle $P Q R=90^{\circ}-R Q O=O Q N$. Hence ultimately the triangles $P Q R, O Q N$, are similar, and $\frac{P Q}{R Q}=\frac{a}{Q N}$, or $Q N, P Q=a . R Q$, where $a$ is the radius of the sphere. Also,
ultinnstily, the surface generated by the rovolution of $P Q$ about $M N$ is $2 \pi Q N \times P Q=2 \pi a \cdot R Q$, frum abuve. And the entire aro $A B$, or nuy purt of it, may be broken into indefinitely small oloments late $P Q$, the surface goneratud by all of which $=\Sigma(2 \pi a \cdot R Q)$ $=2 \pi a \Sigma(K Q)$. Hence surface generated by $A C=2 \pi a \cdot O D$; and surface of homisphere $=2 \pi a^{3}$. Let $C T$ bo the tangent at $C$. Au oye at $T$ will see the portion of the surface onclused by tangents drawn from $T$; and, if this eye see one-fourth the surface $2 \pi a \cdot O D$ $=\pi a^{2}$, or $O D=\frac{1}{2} a$. Now $\frac{O T}{O C}=\frac{O C}{O D} ; \therefore O T=\frac{n^{2}}{\frac{1}{2} a}=2 a$; and $B^{\prime} T=a=$ height of eyo above the surfacr.

We are noked: "Is the following proposition true either partirularly or generally: 'The areas of rectangles vary as the squares of their like dimensions.'" Ans.: It is true of similar rectangles. See Euc. Rk. VI., Prop. 20.

The following solution of the "woul" question in the last number of the Journar has been communicated by Mr. J. A. Clarke, of Picton:

Let $x=$ No. of lbe. of wool retaiued by $B$,
$\therefore 80-x=$ " " " " left for $A$.
But $1 \ddagger \mathrm{lbs}$. in 10 lbs ., or $\frac{1}{\text { t }}$ of the whole spun, is wasted I spin. ning;
$\therefore \frac{7}{A}(30-x)=$ No. of lbs. of yarn spun for $A$;
Wherefore $\frac{7}{8}(30-x) \times 12 \frac{1}{2}=30 x$,
Whence $x=8_{\mathrm{r}^{2}} \frac{1}{1}$, and $\frac{7}{8}(30-x)=19 \mathrm{y}^{\prime} \mathrm{y}^{2}=$ lbs. of yarn.
ANALYSIS.

Since $1 \neq$ lbs. in 10 lbs . is wasted, 7 of $A$ 's wool becomes yarn.六 of A's wool @ $12 \frac{1}{2} \mathrm{c}$. = B's wool at 80 c ;
or $\frac{7}{1} \times \frac{1}{5}$ of $A$ 's share of wool $=$ io $B$ 's share;
$\therefore \frac{7}{7} \times \frac{1}{8} \times \frac{1}{3} " \quad " \quad "=\frac{10}{} " \quad "$
And $\frac{7}{8} \times \frac{1}{6} \times \frac{1}{3} \times{ }^{10}=$ r $^{2} 0^{\circ}{ }^{\circ}$ A's share $=B$ 's share.
$\therefore A^{\prime} s$ share $+1_{102}^{1} A_{2} A^{\prime} s$ share $=80 \mathrm{lbs}$.

$$
\begin{aligned}
& \frac{192+70}{192}=30 \mathrm{lbs} \\
& \frac{1}{192}=\frac{80}{262} \\
& \frac{70}{192}=\frac{80 \times 70}{262}=8 \mathrm{~B}_{\mathrm{I}} \mathrm{I} \mathrm{lbs}
\end{aligned}
$$

A correct algebraic solution was also given by Mr. S. E. Parsons, of Montreal, who considered the statement "there being a waste of $1 \ddagger$ lbs. of wool on every 10 manufactured," to mean that 10 lbs . of yarn were manufactured from 11 lbs . of wool. A correct algebraic solution was also given by G. S., of Eimble.

The following problems havo been sent to us by subscribers:

1. A particle moves from rest under the action of a force varying inversely as the square of the particle's distance from a given puint, determine completely the motion.
2. Given the three equations,

$$
\begin{aligned}
& a_{1} x^{2}+b_{1} x+c_{1}=0 \\
& a_{2} x^{2}+b_{2} x+c_{2}=0 \\
& a_{3} x^{2}+b_{3} x+c_{3}=G,
\end{aligned}
$$

determine the conditions that they shall have a common root.
3. "If $f(a)=0, f(x)$ is divisible by $x-a$, ". Show that this thecrem is not universally true.
4. Prove that

$$
\tan \frac{-12}{1^{2}}+\tan \frac{-12}{2^{2}}+\tan \frac{-12}{8^{2}}+\ldots .=\frac{8 \pi}{4}
$$

J. C. Glashan.
5. Prove that the following problem from tho Equation Papers of St. John's Collego (Colonso's Algebra, Pt. II., p. 27) carnot bo solved:

From the middle of a town two streets branched off, and crossed a straight river by bridges $A$ and $B$. From their junction, a sewer, equally inclined to both streots, led to a point in the river distant 6 chains from $A$, and from $B 11$ chams less than the length of the sewer, the expeuse of making which was as many $£$ 's per chain as there were chains in the street leading to $A$. The sewer proving insufficient, a drain was mado from a point in this street, distant 4 chains from $A$, which entered the river at the samo point with the sewer, and was equally inclined to the river and the sower. Now, a drain down each street, at $£ 9$ per chain, would have cost only £54 more than the 'sewer. Find the lengths of the streets and sewer.

Thos. Campeell, Ottawa.

6. $A$ and $B$ paid $\$ 120$ for 12 acres of pasture for 8 weeks, with an understanding that $A$ should have tho grass that was then in the field, and $B$ what grew during the time they were grazing; how mauy oxen, in equity, can each turn into the pasture, and how muc. should each pay, providing 4 acres of pasture, together with what grew during the time they were grazing, will keep. 12 oxen 6 weeks, and in similar manner, 5 acres will keep 35 oxen 2 weeks?
7. A steamboat boa'er 4 feet in diameter and 14 feet long (beated from beneath), has 60 flues, 4 inches in diameter, running the whole length. How mary gallons of water trould be require ${ }^{2}$ to nill the boiler after deducting the flues and reserving one-third of the whole space for the steam generated. In other words, find the length of the chord which will divide the surface of a circle into two parts in the proportion 2:1.

> - J. A. Claber.

## 解ractical exucation.

Queries in relation to rathods of terching, disciplino, school managoment, \&c., Till be answered in this dopartmont. J. IGGHEB, EDITOn.

## HOW TO SPEAK PLAINLY.

VI.

Substitetion or Sounds.
This error is chiefly confined to vowel sounds, but ceveral of the consonants are also interchanged, especially by children and forcigners. Errors of this class are more diffcult to remove than any others. They require the most careful ear-cultivation possible, and unremitting watchfulness for yeare, before they can be cradicated.

## Consonant Substitutions.

T yor D.
Worts for Words. Colts for Colds.
A very good example of a double substitution of these letters is found in the inralid's description of his cold. "I hare a bat colt in my chest and it makes mo very horse." This error results from the fact that $d$ and $t$ require the same arrangement of the rocal orgnus. It may be cured by allowing a part of the stream of sound which has been shut in by the meeting of tho tongue and teeth to escape through the nasal passages when sounding $d$. $D$ is a "soand" letter, tis merely a "breath" letter.

## K for Qu. <br> Examples.

| Kotient for | Kwotient. | (Quotient.) |  |
| :--- | :--- | :--- | :--- |
| Kotatiou | " | Kwotation. | (Quotation.) |
| Korum | " | Kworum. | (Quorum.) |
| Kota | " | Kwota. | (Quota.) |
| Koth | " | Kwoth. | (Quoth.) |

Causc. Q and its inseparable companion $u$ aro equivalent to $K u$, and this error consists in the omission of the $w$. The mistake is made only bofore or and ot. We nover say kick for quick, kiver for quiver, or cash for quash.
Remedy. Acquire tho $K w$ sound by sounding such words as quick, quilt, quit, \&c., and then articulate it before or and ot.

## F for Tin.

Examples.
Fink for Think.
Fissel " Thistle.
\&c. \&c.
Cause. Shutting off the air coming from the lungo by meeting the upper teeth and lower lips.
Remedy. The sound of th is mado by placing the end of the tongue lightly against the points of the upper incisors, and forcing the air through the uarrow passage thus formed. The tongue should never protrude beyond the teeth in properly uttering any sound in our language, but some can more easily learn to articulate this sound by allowing the point of the tongue to pass beyond the teeth.

Practise, Caly think, Timothy, Thick. ag, thrust, three thousand thistles, through the thick of his thumb, last Thursday at 8 o'clock.

$$
\begin{gathered}
\text { Th for } F . \\
\text { Examples. } \\
\text { Triumth for Triumph. } \\
\text { Lymth " } \text { Ugmph. } \\
\text { Nymth " Nynph. } \\
\text { \&o. } \\
\text { \&c. }
\end{gathered}
$$

For the cause and cure of this error it is only necessary to reverse the instructions given in the last paragraph.

$$
\text { i for } N
$$

Example.
Chimley for Chimney.
Cause. $L$ and $N$ are both formed by placing the tongue against the roof of the mouth. The difference botween them is that part of the sound escapes through the nose when $n$ is formed; $l$ is a breath and $n$ a sound letter.

Remedy. Pause slighti'y after the $m$ in Chim before sounding the ney. Be sure to press the tongue firmly against the roof of the month in saying $n$, so that tho sound may be forced partly through the nose.

$$
\text { D OR T POR } J, T \mathrm{~B}, \mathrm{CB}, \mathrm{G}, \mathrm{C}, \mathrm{AND} \mathrm{~K} .
$$

Examples.


These orrors are most commonamong children, batmany persons retain them in their fall impurity during their lives.

Causes. The cause of the substitution in the first three cases is, that the introductory sound of any word commencing with $J$, Th or Ch, is made by the same formation of the vocal organs that required for $d$ or:. Those who err in these words merely make the introductory sound of $J$, Th or $C h$. The cause in the last threo
is placing the point of the tongue against the incisor gums whon commencing a word, instead of placing the body of the tongue againat the roof of the mouth.

## MAP DRAWING.

## II. <br> REQUISTIRS.

1. Plain drawing paper, not too smooth.
2. A lead-pencil, not too hard.
3. A pair of fine-pointed compasses.
4. A ruler with scalo.
5. A flazible ruler. A piece of whale-bone, bamboo cane, or a thin strip of cedar or other even-grained elastic wood will do.
6. Ink for lining in, and lettering. India ink is best. Use a fine pen.
7. A box of water colors, with a fow hair pencils.
8. A right-angled triangle.

## ORDER OF PROCEEDING.

1. The pröection of the map to any scale required.
2. Drawing the outline in pencil.
3. Coloring.
4. Filling in dotails; coastline, mountains, rivers, cities, tc.
5. Lettering.

Projection.-By the projection is meant drawing the border or side and end lines of the map, and placing the parallels and meridians in their proper places. This is the most difficult part of map drawing, and the pupils should be made proficient in it before they are allowed to take a single step in adrance. More depends apon this than on any other part of the work. The first thing to do is to draw the border lines. In doing so great care must be taken to have the angles at the corners right angles. This must be accomplisised with the triangle. Sjne of these is usually sold with a box of instruments, but the pupil can make his own, as follows: Take a piece of stiff paste-board, and draw upon it a line corresponding with $A B$ in the following diagram. Then from any point, as $C$; and with the radins $B C$, draw a circle intersecting the given line at some poiat, as $D$ : then draw a diameter through the points $D$ and $C$, aci through the point $E$, where it intersects the circumference, draw the straight line $B E$.


Jy cutting :long the lines $A B$ and $B E$ with a sharp knife the required right angle will be obtained.

One side of the border should be drawn of the proper length, and parallel. with the side of the sheet of drawing paper. Placing the right-ang.ed raler with one side slong this line the ond lines may be drawn in tho proper directions, and by repeating the process at the other corners the border may be completed. These lines, like all other inportant lines, should be drawn first lightly in pencil, and lined in with ink when tho pupil is satisfied that thoy are in their prope- positions. The innor border lines should next bo drawn parallil with the outor lines.
The points where the Meridians and Parallels cat the inner
border line should now be marked in pencil. This must be dono accurately, and may be done either with the aid of a pair of compasses or a slip of white paper marked first whilo placed on the map to be copied, and afterwards laid along the border line of the drawing.

If the map to be drawn ropresents only a portion of a continent, the Meridians and Parallel can now be ruled in easily with the aid of the flexible ruler. Maps of countries. or parts of countries, should be drawn befcre maps of continents, because it will not bo so difficult to obtain the proper curve of the Meridians and Parallels. The projection of the map of the World is much more difficult to draw than that of any other map.
In drawing the projection of a map of a continent or of the map of the world, it is best to draw the central Meridian and Parallel first, and mark on them, as well as the inner border lines, the points at which the other Meridians and Parailels cut.
The flexible ruler should have a string fastened to it at each end, so that the pupil may, by twisting the string with a stick at the middle, cause the ruler to bend until it assumes the required curvo.

The pupil must be shown that the curves of the Meridians of the same map have not all got the same curce. This remark is also true of the Parallels. The ruler must therefore be adjusted for each line, or each pair of lines, if tho map takes in enough of the earth's surface to include corresponding lines. It will be a very great assistance in drawing the projection of a map, and in filling in the outline, to rule the map to be copied and the one being drawn by the pupil lightly with poncil in squares. Those on both maps must correspond in number, of course. If the map to be drawn is to be of the same size as the copy, these squares should correspond exactly in size as well as number. If the drawing is to be made twice or three times as large as the copy," squares on the drawing will have to be twice or three times as large as those ruled on the map, and so on for any required scale. Maps may be reduced in a similar manner. Of course all border lines, Meridian distances, de., will have to be leagthened or reduced if the scale is to be changed. This can best be accomplished with the aid of the compasses and the ruler with the scale.

Some may object to the practice of ruling the maps in the Geography in squares, even though the pencil be used and the lines may be easily orased. Two mothods aro used in order to avoid the necessity for doing this.

1. Transparent paper ruled in squares is laid over the map.
2. A wire frame is made, and thread or fine wire strung across it so as to form squares of the size desired. This is then placed over the map to be copied, and the map to be drawn is ruled in corresponding squares.
Pupils are sometimes supplied with paper on which the projection of the map is already drawn. The practice is not to be commended, as drawing the projecticn is a very valuable exercise both in Geography and Drawing.

Note.-In our next we will explain outlining, coloring, lettering, \&c.

## MENTAL ARITHMETIC.

## J. A. MCLELLAN, M.A., I.H. D.

I.-Introductory.

Arithmetic is the Logic of tere Public Scrool; bat it is this only whon properls taugìt. The old mechanical methods that until recently prerailed certainly did not educato the logical faculty; with equal certainty it may bo said that thoy failed to give a sound practical knowledgo of the subject. Rules and formula
were the order of the day ; the despotic Huw reigned suprome, with no toleration for the independent Wus. By a reversal of the natural ordor, the rule preceded the amalysis, not the amalysis the rulo ; or perhaps it would bo mure currect to say that promeiples were ignored and amalysis had no place; there was the rule, the Rut.e and-nothing more. The rule was memorized; it was applied to questions set under it ; certain results were oltained; if these agreed with the chaswers, the "reasommg" was supposed to be correct; if not, the persecering pupal performed a sevies of ex. periments which perchance issued in the anrer. ent of answer and result. Could such a system produco aught but unsatisfactory effects, or fail to bring discredt on the science? Of what possible use could it be, so fat as a practical knowledge and mental discip. line are concerned, for a pupil to be told that by going through certain operations with tigures-operations whose ruthonte was to him an impenetrable mystery-io would at last arrive at certain "auswers?"

The consfquences of such teaching were inevitable; the two invaluable ohjects aimed at in the study of that subject-intellectual discipline and useful practical knowledge-were not attained. is to the first, it is plain that a blind obscrvance of rules can never lead to habits of patient investigation and develop a selfereliant energy of mind. Is to the second, it is notorions that thes system, by a strange misnumer called the Practical, did not produce practical Arthmeticians. Pupils that had "ciphered" through the text-book, even those that had leen regarded as prodigees in Mathematies, were wont tu be nonplussed by the smplest busmess questions. Not intelhgence, but rule and routno were their guides-and blind gudes they are and ever will be. The servile follower of rules can never be truly practical ; he only is truly practical whol:notes his sulject; whose knowledge is funded on principles which he has mude thoroughly his own, and who has been so trained to Labits of patient analysis that he is independent of all formal rules.

Onder such circumstances it is not strange that the value of Arithmetic, as an agency in education, began to be seriously questiored. Cousequences, clearly traceable to bad teachang, were, for a time, ascribed to an inherent worthlessness in the subject taught. But better methols have given rise to sounder views. A marked improvement in teaching, and therefore in results, has taken place; and as might have been expocted, and certainly cannot be denied, an increased intelligence and power in masterng other subjects have been simultaneonsly developed. The results of the rarious examinations prove that pupls who do well in Arith. metic almest iuvariably do well in other liranches-that therr knowledge of Arithmetic is a far measure of their general mellhgence. As an example of this $n$ single fact may be quoted: during the last three or four years 357 candidates for entrance into one of the leading IIigh Schools obtaind ${ }^{\circ} 0$ per cent. in Arithnetic, am of these only serm failed in any wther branch. We believe that the records of all the official examinations would be equally conclusite as to the value of thas Comson Logic of the Peorie as an instrument of education.

With the introduction of ratiomal methods of teachug, we may bopo to see cxploded the too prevalent dea that only a few who havo been endowed with special powers can berome gond Arithme-ticians-that, in fact, Arithmeticians, like poets, are born, not made. The truth is, that while different minds possess different degrees of mathematical puwer, every ono born with the faculty of reason can become fairly proficiont in Arithmetic when it is rationally taught. Only let him not be made the blind follower of rules; let him bo taught by one who is thoronghly master of his subject, and bases his instruction on a tunwledge of the laws of mental
development; lot hin gain a clear insight into principles, and follow rational order in overy investigation; lot him clearly comprehend the why and the wherefure of every numorical operation, "and Arithmetic will become a Sciescre to him, in the proper sense of thoterm, invested with attractive charms, and serving as the most healthy and invigorating discipline of the mental powers."
Holding these views of Arithmotic as a means of mental discipline, and believing that the highest results of the study can bo reached only by thorough and srstematic mental training, wo purpose giving a few papers un Mental. Amthmetic, in the hope that a practical discussion of its aim and scope and methods may not be without value to our fellow-teachers throughout the Dominion.

## 

## ONTAMIO.

Hon. Adam Crooks is to deliver a lecture in Lindsay on April ith.

Midoc lust its Model School by fire recently, and is going to have a red model school-honse as the result.
Stratford High School had 105 pupils on the roll in February, mad her Public Schools had 1,078.

St Thomis had 1,034 pupils in attendance in February.
Mr. John McLean has been appointed Inspector of Public Schools of St. Thomas for the year 1878, in room of Rev. Mr. Cuthbertson, resigned.
Profrssiunul Examination of Second-:lass Cundidates at the Normal Schowls - These examinations were conducted consecutively in Toronto and Ottawa during the last week in March. The examiners Were in Toronto Dr. Mcletlan and Mr. J. Hughes, and in Ottawa Mr. Glashan and G. W. Ross, M.P.
The teachers of the Cuunty of Prince Edward received salaries as frllows for the year $18 \% .-5$ teachers received 8500 or over, 7 received $\$ 450$ to $\$ 500,16$ had $\$ 400$ to $\$ 450,23$ had $\$ 300$ to $\$ 400$, and 32 received less than $\$ 300$. The average salaries of male teachers in the county was $\$ 389$, and of females $\$ 241$.
The Picton New Sation says:-A correspondent calls attention to the fict that "drill" is one of the subjects in the Public School programme, and also to the surprising fact that, in spite of its intrinsic value as a mode of discipline, the requarements of the lar are so seldom complied with. Teachers who once give military drill a fair trial will not feel disposed to abandon it.
The trustees of S. S. No. 3 Percy, hare decided to pay their teachers quarterly. If school boards in rural districts as well as towns and villages conld unly be induced to follow their example, the improvement that would fulluw wonld effectually prevent any return to the old system of paying semi-occasionally.
A Tpstinonial.-A document, signed by 68 head masters of High Schools, has been sent to the Minister of Education, stating the regret they felt in notiring attacks lately made on Dr. McLellan in a Toronto paper, and strongly disavowing all sympathy with the assailants. Tl e Minister of Education made a fitting reply, stating his high sense of the ability and integrity of Dr. McLellan.
The following resolutions were passed at the last meeting of the Teachers' Association for East Middlesex :

Moved by Mr. McKellar, seconded by Mr. Fekert. that in the estimation of this Association the regulations relating to the Superamuatod Teachers' Fund should be altered so that the fund mav be availahle to teachers after 30 y ears' serrice, or on arriving at the age of 55 years.

Moved by Mr. Manning, seconded by Mr. O'Connor, M.A., that this Assnciation considers that uniform eraminations for promotion in the classes of the public schools of this inspectorate would be of bencfit to the said schools.
Moved by Mr. Houston, B.A., seconded by Mr. O'Connor, M.A., that in the opinion of this Association third-class teachers should be allowed to write for a renewal of their certificates at the thirdclass examination, and that an such certificates should be renewed without such examination.
According to the London Advertiser a long discussion followed the introduction of the last resolution, the majority of tho speakers being of the opinion that the slandard of qualification for thirdclass certificates was now hiyh enough to enable those holding such certificaten to teach most of the public schooln, and that it would
be better if third-class teachers who had proved themselves efficient should have their certificates renowed, instead of being thrown out of the profession because they could not come up to the standard required for a second-clase certiticate. The motion was then carried.

A Competitive Examination was held in the Beckwith Township Hall, on the evening of Friday, Murch 1st. The competition was a contest in ? mental'arithmetic, betweon eght of tho public schools of the township, bringing forward it all twenty-eight pupils for competition. The Rev. Jno. Allister, of Ashton, occupied the chair, and the examination was conducted by the head masters of the Carleton Place High and Public Schools, with the Rev. Mr. Tigher, of Franktown, as referee. The following rules were laid down by the Examiners before proceeding with the examination. (1) A scholar's slate once down nut to be taken up again. (2) The one who gets right first to get a certain number of marks, and the noxt to get one less, $\&$. ; and the puril getting the greatest number of marks to be the victor. Twelve questions were then put, and the best pupil worked eleven of them correctly, the 2nd nine, the 3rd ten, and the 4th eight. Four prizes were then awarded by the chairmain to the successful competitors. Very great interest was manifested in the proceedings.
The annual report of Rev. Mr. Torrance, P. S. Inspector, Guelph, shows that there were registered in the schouls under his charge 1,035 puphls during the year 1877. The expense per pupil was $\$ \mathbf{5} .56$. Eighty-three pupils passed examination for admission to the High Schools during the year. Mr. Torrance concludes his valuable report as follows:-It must be a matter of gratification to all persons, as it is to the Inspector, to see the numbers of new applicants presenting themselves for admission to our schools, whether they are strangers coming in from other districts, or children living in our mudst whose education has been neglected. It is also gratifying to witness the advance made m the efficiency of the schools, as shown by the numbers that have passed at the promntion exaninations, the average for the last half-year being eighty per cent. And this cannot be oxing to the teachers having the children a longor time under their tuition, for the last half-year had only eighty eight teaching days, against one hundred and twenty-one in the first, when the average was a little under sixty four per cent. And it is further gratifying to find the two senior classes in the Public Schools sending so many up for the admission examination to the High School, and so many of these proving successful, and the successful candidates eager to avail themselves of the benefits which the High School, which we trust before lung will be a Cullegiate Institute, in a building worthy of it, furnishes with its present staff of teachers.
The following synopsis of Inspector Kelly's Amnual Report for the city of Brantford is taken from the Expositor:-The highest salary paid a male teacher was $\$ 1,000$, the lowest $\$ 600$. A verage 85331 . The higbest salary paid a femalo teacher was 8450 , lowest 8200. Average 826644 . Seven of the teachers were trained in the Normal School. Tro hold first-class Provincial certificates, fourteen second-class Provincial certificates, and nine new County Board third-class. The number of children in the municipality, according to the Assessor's roll, between the ages of 5 and 16 years, was 3,065. The number of those enrolled in the public schonls was 1,963. It is the intention of the Trustees to add shortly about $\$ 400$ worth more of books to the library. The menbers of the Board take a very active interest in the schnols, visit them frequently, and are always ready and willing to do anything or grant anything that may contribute to their welfare. They are constantly making improvements in the furniture and equipment of the school rooms, and the adornment of the grounds. Gymnasia are still wanted, and I have no doubt will be supplied, so soon as the finances of the city will warrant the exponditure. The physical education of the boys and girls of Brantford has been too long neglected. It is just as important a part in their training, and just as necessary to their future wellbeing, as their intellectual or moral culture is. The Roman poet was right when he prayed for a sound mind in a sound body.
The fourth annual compotitive examination for the Public Schools of the county of Durham was held on the 15th and 16 th of March, in the townships of Darlington, Clarke, Hope, Cartwright, Cavan and Mouaghan. On the 15th the pupils were exam. ined in Algebra, Euclid, Book-keeping and Advanced Arithmotic. and on next day in the ordinary work for third and fourth classes. Pupils were divided into four classes: 1st under 12 years of age, 2nd under 14, 3rd under 17, and the special class for the worls on

Friday. Each school was allowed to send threo pupils in each class. The questions, which were printel, were prepared by a central committee, and teachers from one tuwnship were selected to examine the puphls from another township. 172 candidates came up for ex:mination, and the results were highly satisfactory, especially in the work on Friday. Prizes of the value of $\$ 400$ will be awarded to the successful competiturs; cifyt general proficiency prizes and one subject prizo in each class, but no prize will be given on less than 46 per cent. of the marks. Hunvar cards are also given. During the past three years 8360 worth of prizes have been awarded in connection with these compettive examinations, which have developed a lively interest in school work among both teachers and pupils.

## QUEBEC.

At the last meeting of the Protestant Committee of public Instruction, a lettor was read from Mr. W. I. Gage, of Adam Miller "Co., Publishers, Toronto, urging on the Committee the clains of "The Canada School Jounal" as a protessional paper for the use of Teachers, and stating the relation it sustains to Education in Ontario, Nova Scotia, New Brunswick, \&c., and offering it at a low rate to teachers. The Committee recommend Teachers to avail themselves of the advantages offered by this journal. It was also agreed to add Hamblin Suinth's Mathematical Works to the list of School Books already authorized.
The Protestant Committee are making great eff.rts to organize that portion of the Educational system which they zoutrol. Hitherto educational institutions, especially those which are supposed to be devoted to superior education, have gone on in a hap-hazard kind of way-partly under the contrul of relhgious bodies, party aided by the State, withont unifurnity of text books, and without any sufficient test of the qualifications of masters and teachers. Secondary education has languished. Of late, however, matters have begun to change. The appointment of Professor Weir, of Morrin College, and F. C. Emberson, M.A., to inspect those institutions which obtain grants from the Superior Education Fund, will induce a more rigid classification, and give the Protestant Committee something nure than mere names as a basis for the apportionment of the annual grants. To form an idea of the state of Higher Education, one has only tolonk at the classificetion of Institutions which receive public money, as set forth in the last report of the Hon. Superintendent of Education: viz-(1) Universities, (2) Affiliated Culleges, (3) Classicall Culleges, (4) Industrial Colleges, (5) Academies, (6) Mudel Schools, (i) New Applications. Below all these subsist the common schools.
There are three grades of public certificates for teachers. (1) Elementary for the Common Schools, (2) Model School, (3) Academy. Fur the last, in addition to the ordinary English and Mathematical subjects, Greek and Latin Grammar, a book of Xenophon and of Ceesar are also required. Tho Academy certificate thus corresponds somerhat to the old Grammar Schonl certificate which was obtained some years ago in Ontario. It must be admitted, however, that no Province of the Dominion has such obstacles to overcome in the path of reform as the Province of Quebec.
The collection of objects for the Paris Exhibition, which is to show what Quebec has already done and is now doing in Educational matters, must afford feelings of pieasure to all thuse who are interested in the welfare of the Province. The Conmission deserves great praiso for the exertions made in forming the collection.
The Scholustic Neres is the name of a new paper published in Montreal and devoted to the interests of education.
In the last report of tho Superintendent of Education the reports of Inspectors are given at length, and not, as in formor years, by extracts merely. Some of the Inspectors complain of the too great indulgence of Boards of Examiners in granting certificates to young girls who have neither the age nor the requirements necessary for managing even an elementary school. On the other hand, Inspectors are almust unaninous in condemning the miserable pittances called salaries paid to teachers, and in testiffing to the unwillingness of the municipalities to increase them. They even go so far as to recominend that a minimum amount of salary should be fixed by law. It is extremely doubtful whether such a law would provide the necossary remedy.
nova scotia.
The annual report of the Education Department, presented to the Local Legislature this month, contains some interesting statistics of the expenditure on schools. The whole expenditure on
oducation last year amounted to $\$ 681,134.36$, of which tho Governmont contributed 8204,266.38. The oxpenditure was thus divided:

Portion paid by
 Gor. of N. S. 8178.77538 0,01100
5,750 00
14.70000
$\$ 204,20638$
191,605 50
Increase . 8 9,660 83
The lucal exprentitare on public schools was $\$ 431,382.98$, the money raised by connty assessments having been $5106,832.73$, and by section rates, $3324,550.25$. The number of sehool sections last tear wat $1,7 \% 0$, showing ath merease of 16 over tho provious year ; and the nomber of sectons havins no school during any porton of the year was 143 , or 43 less than in 1806 . Durmeg the winter term there were 1,731 schouls in opration, with 80,788 pupils, and an arcrage daly attendance of 46,350 ; during the summer term 1,871 schouls, 83,941 puphls, aremge daty attend. ance 47,000. In all these figures there is an increase over last year. The tutal nuaber of teachurs and heensed assistants employed was, winter term, 1,529 , an increase of 89 ; summer term, 1,947 , an increase of 6 . There were 76 new school houses built in 1877, and 58 more beg(nn, $\leqslant 32,179$ hawng been voted by trustees for buildin" purposes.

The sax colleres receinatg Provinctal atid had the following number of students. Kinacs, Church of England) 30 ; Dilhousie, (non-sectarian) 46 ; Acadha, (Batptist) 53 ; St. Francis Xavier's, (Roman Catholey 48; Mount Allisun, (Wesleyan) 48; St. Mary's, (Ruman Catholic) $3:$. The "ndowments of the institutions are: King's, S106,891; D.lhousie, 884,864 ; Acadia, $\$ 103,000$; Mount Allison, $\subseteq 4 \bar{j}, 000$; St. Mary's $S 15,000$. 'The incone and expenditure do nut appear to balance in must cases, as may be seen from the following table :

| Collego. | Income | Expenditure |
| :---: | :---: | :---: |
| King's. | ¢8,473 | 811.414 |
| Dalhousie | 7.009 | 8,526 |
| Acadia | 7.060 | 6,020 |
| St. F. Xavier | 1,80t | 1,954 |
| Mt. Allison | 12.800 | 12,800 |
| St. Mary's. | 2,200 | 2,387 |

At the Prusincial Normal School four teachers were omployed last year, and 140 students ware in attondance, 43 during the whole session, and 97 during a part of it; 73 obtained licenses. The Model School had 11 teachers and 881 pupils.

The number of cendidates examined for licenses to teach in the pubhe schools was 2,058 ; uf these $\overline{\mathrm{j}} \mathrm{E} 4$ received a license of the grade sought, 1,344 received iicenses, though in many cases of a lower grade, and 714 failed to receive a license. 18 applied fur Grade A, 10 succecded; 190 for Grade 13. $\mathbf{0} 6$ succeeded; 984 for Grade C, 319 succecded; 715 for Grade D, 13" succeeded; $1 \overline{\text { an }}$ for Grade E, 32 succeeded. Nost of those who failed in getting the grade they asked for obt:ined a luwa. goe, as may be seen from the following summary of licenses awarded. Grade $A, 15 ; ~ B, ~ 5 S ; ~ C, ~$ $389 ; \mathrm{D}, 481 ; \mathrm{E}, 401$. Of new candidates receiving licenses there were 747 . There wis it falling off in the number ot successful candidates for the wou higher graves, $A$ and $B$, the figures last year being 15 and 56 as agamst 16 and 82 in $155^{-} 6$, but there $w$ ass an increase in the number who, in all grades, whained the grade they asked.

The Ciniversity of Haliias has pmblishedits calendar for $18 \% 8$. It contains, besides the Regulations respecting Matriculation, and Degrees in Arts, Laws. and Medicinc. puhbished last year. the Regulations respecting Derrees in Science, issued this year. The Registrar's report shows that the University is making excellent prugress. Tho oftices have recently been removed to much inore extensive and commodious quarters in Eusslein's Building, Holles strect.

Mr. J. S. D. Thompson, M.P.P. for Antigronish, and a Fellow of the University, has introduced a Bill in the Local Legislature, conferring certain impurtant priviteges on law students graduating in the University.

The Technological Institute-this is the name Gnally given to the Cullege of Science-has been fairly started. Hun. W. J. Stairs, Vice-Chancellor of the Unirersity, very liberally provided rooms and all necessary class appliances. Lectures have com-
menced, and the attendance of studencs already exceeds the num. ber expocted.

Dr. Bayno, of the High School, and Dr. Mackenzio, of Dalhousio Collere, are doing knightly servico in the cause of popular science by their lectures given to the general public.

There is a litch in the final securing of the site for the Halifnx High School, as a good title to one of the properties cannot be cbtained. A vory much bettor site should now bo cbtained, as the one fixed upon is not considered by many persons at all a desirablu one.

## NEW BRUNSWICK.

At the openingr of the Local Legislature of this Province, on the 26th February, notice was given in the "Speech" of the the Government's intention to amend the School Act so as to enlarge the School Buards in cities and towns with a view to a more varied representation. It is understood that the object of the proposed enlargement is tu facilitate the appointment of Catholic members on these Boards.

In the January number of the Joursial, notice was taken of the apponntment of the Rev. Foward Sprague, of St. John, to the Presidency of Mount Allisun College and Academies, in succession to Dr. Allison, now Superintendent of Education for Nova Scotis. The position thus honourably tendered, Mr. Sprague has been obliged to decline on account of feeble health, and Prof. Inch, of the same College, and for a number of years Principal of the Ladies' Academy, has, by a unanimous vote of the Governors, been elevated to the vacant post. The Governors have made a most judicions and furtunate selection, as all who are well acquainted with Prof. Inch will very readily testify. Tho Rev. George S. Milligan, another practical educationist, well tried in many fields, is to succeed Prof. Inch at the Ladies' Academy, and the Rev. Mr. Kennedy, the present Vice-Principal of the Boys' Academy, will take charge as Principal.

Teachers' Institutes are in the course of formation in several counties of this Province, and from present appearances give fair promise of being popular and useful. As yet the teachers of the County of St. John have not given in their adhesion to the movement, but it is understood that meetings have been hold and other steps taken which may lead to the establishment of a large and active institute. Should tho negotiations now in progress fail, it is probable that the teachers of the city schools will unite, as the teachers in the town of Portland have done, and form an association of their own.

A large number of teachers in St. John and Portland havo recently formed thomselves into a class for the systematic study of botany under the direction of the Rev. James Fowler, A. M., who has made the subject a specialty for uver a quarter of a century. In the earlipr lectures of the course, the attontion of the class has been turned to the consideration of cellular growth, the rout, stem, buds, leaves and flowers of plants, every step being illustrated by appropriato specimens, as fresh as the season will allow. Beforo the close of the course, spring will have arrived, and then excursions to the fields will form part of the programme. It is a rare chance for the class to hare secured the services of so highly quali-fied-in instructur, and every member has taken a corresponding degree of interest in the study.

As tho winter is passing away, and tho weather still continuing unusually mild, the schools of the city of St. John are rapidly becoming Shronged, as they have not been since the great fire in Juse. This is a feature very pleasing in many respects te contemplate, but it is one which is tusking the efforts of the school authorities to a great degree to lnow how to provide for all applicants with the limited accommodation at their disposal. That friends at a distance may know what a burnt city really means, let them try and realize, if they can, that for months past hundreds of the city schulars have had to make shift with one-fourth the floor spaco which either lealth or proper teaching arrangements reguire, withnut desks to write on, without, in short, the thousand and cone appliances lately possessed in abundanco. All this, ton, with scarcely a murmur or complaint. Truly the lessons taught by misfurtuncs are wonderful. The patience of the people is being fast rewarded. The ofening of Now St. Malachi's Hall on the 4th March has brought great, and greatly needed, rolief to a nuinber of over-crowded departments. The new Hall has ten rooms, admirably furnished, five for boys and five for girls, and the fattendance, in leas than a week from the day of opening, reached the gordly number of seven hundred.

## PRINCE EDWARD ISLAND.

The Board of Trusteos for Charlottetown has been increased in the number of its members, by the election of Messrs. McDonald, Handrahan, and Hodgson. These gentlomen were olected by the City Council.
A graded school has been opened at Georgetown, and another is about to be organized at Mount Stewart.

The teachers of Prince Edward County propose to hold their Institute in June, when it is expected that the Board of Education will grant them the privilege of attending without a deduction being taken from the usual allowance. A general Association of Teachers for the whole Province will probably be urganized in the spring.
The calendar of the University of Halifax has been received. Much interest is taken in the velfare of t'ois institution, as it opens up a course of stedy which can be accomplished by the young mon of the lsland, who can now work for a college degree without going to other Provinces for their education. The plan adopted is similar to that of the London University, an institution which has stirred up the ambition of thousands of young men who were unable to provide for a term at college.
The male students of the Normal School have established a Dobating and Mutual Improvement Society, of which Mr. George Harris is president, and Mr. John T. McNeill is Secretary. They hold meetings once a week to discuss matters referring to the profession they are about to eutor. The last subject under discussion was, "Which is the better plan-to pay the teachers altogether from the public treasury, or to pay them according to the enactments of the present law?"
The House of Assembly met on the l4th of March. In the Govvernor's Speech, the new system of education inaugurated last July was referred to.
During the discussion of the address, the majority of the mem. bers congratulated the country on its progress in education ; whife several of those who had opposed the passing of the Act said they were willing to give the new system a fair trial. The sanction of the Guvernor-General, received some months ago from Ottawa, has hushed the excitement arising from the supposition by sume that the Act was unconstitutional. As has been remarked, the people are now only anxious to co-operate in making the schouls what they ought to be.
The Education Report bas been issued. It contains the usual information in regard to the working of the system, the Inspector's Reports, and the Reports of the Board of Trustees of Charluttetown and Summerside. In the former town a new school has been opened in the large brick edifice formerly occupied by the Christian Brothers. This institution has been greded into four dopartments, is attended by over two hundred pupils, and is known as the Queen's'Square School. The teachers are Messrs. Curran, McElmeel and McDonald. In Summerside the Trustees have made arrangements, by the sale of debentures, for the erection of a large district school in their town. In the meantime, Messrs. Gunn and Morrison, with their colleagues, are making praiseworthy effurts to raise the standard of education in their district.
"I am happy to be able to inform you that the Public Schools Act, 1877, has received the assent of the Governor. General, and is now in full operation. Its results, so far, especially in the towns, havo been very satisfactory, and I am rojoiced to know that, under its provisions, a large increase has taken place in the number of schools in operation, as woll as in the number of children receiving instruction.
"The Normal School in Charlottotown is now upon a satisfectory footing, and is attended by as large a number of pupil teachers as the accommodation will permit. The proper training of these teachers will offur one of the best guarantees for the efficiency and improvement of our public schools in the future. Papers relating to this matter will be laid before you.
"The practical working of the School Act and of the assessment law has suggested a fow amendments, which will be submitted for your approval."

## MANITOBA.

It seems that the Committee appointed by the Cuuncil of the University of Montreal, to consider and report on the course of study and examinations for degrees, found considerable difficulty in the course of studies, and from the different prominence of individual subjects, in the English and French colleges and universities. The French members of the Council are almost all, if not
all, graduates of Laval, and with the system of that university alone do they seom to be acquainted. To show the difference of system, it may be mentioned that the French members were in favor of having in the curriculum an amount of Greok and Latin that almost appalled the English members, many of them good classical scholars. After agood deal of discussion it transpired that the St. Boniface representatives expected the candidates to be permitted to tako their lexicons into the examination hall and have their assistance in disposing of the passages presented.

Another point to which the French members took strong objection was specifying text-buoks in any case where, by merely stating the subject, any one of soveral text-books might be used. However, in most of the subjects, with the exception of Mathematics and Natural Sciences, it was thought desirable to give definiteness to the course by prescribing certain works.
To meet, in somo measure, the want of trained teachers in $W_{1 n}$ nipeg, the School Buard has, at the suggestion of the Principal, Mr. Fletcher, authorized the closing of all the schools at 3 p.m. on Friday of every week, the next hour to be spent under hus durection in discussing school managoment and discipline, and the methods of teaching the various subjects on the programme. The plan has been very successful so far.

## BRITISH COLUMBIA.

In the generally expressed desire for governmental retrenchment, and for bringing expenditure within the revenue, legislative attention is being called, among other branches of the Public Service, to that of Education. A motion was brought up in the House to "disestablish" the High School in Victoria, on accuunt of the expense, but after one postponement it was abandoned. Much to the regret of advocates for free education in the higher as well as the lower branches, a monthly feo wall prubably be imposed on High School pupils, s.) as to lesson the burden on the schoul grant. The aboltion of this indispensable adjunct to any liberal fiee school system is, howover, entirely out of the question, judging from the published romarks elicited by the introduction of a motion asking for the names and occupations of parents sending to the High School.
As the school grant is not likely to be larger than that of last year, namely \$46,000, some of the smallost schools in the outlying districts will have to be discontinued temporarily. Hitherto, current expenses connected with schools, such as the items for fuel, cleaning, \&c., \&e., have all been paid out of the general revenue. Those charges must hereafter be defrayed by municipalities and trustee boards. The office of Deputy Superintendent is also to be abolished. Tho School Act will be amended in ordor to give effect to these contemplated changes.

## FOREIGN.

Tho Maryland State Board of Education regards such an enactment as this essential to reaching the proper standard: "No person shall bo employed as a teacher at the public expense until he has learned how to teach."
Girard College has been enlarged, so that thers is room for 320 scholars in addition to the 550 formerly accommodated. Children born in Philadelphia have had the preference of admission, and until now the College has confued its usofulness to the State of Pennsylvauia, but recently the doors have been thrown open to fatherless boys born in New York. The income of the Girard estate applicable to the purpose of College improvements and support amounts to about $\$ 400,000$ a year.
The Dean of the Faculty of Merlicine in Paris states, in answer to an inquiry from the Dean of the London School of Medicine, that since 1865 thirty-two women have entered the school. Of this number nine have obtained diplomas and twenty-three are still at their studies. The nationality of the students was: English, six; Russian, twelve; and French. five. The Dean says that the conduct of theso ladies and their devotion th their studies have been blameless.
-Don't punish ofton. If you are obliged to resort to frequent punishment among your acholars, you may very wisely and reasonably come to the conclusion that you have mistaken your calling.

## ©earbers' Associations.

Tho publishors of tho Joussal will bo obhigod to Ingpoctors and Secrotaries of 'reachors' Apsocintions if thoy will hond for publication programmes of weotings to bo hold, und brief ucconnts of meotings held.

## OXFORD.

Tho next mooting of tho Aasocintion will bo held in the Town Fall. Woodtock, ou Wednesduy and Thursday, April 17th and 18th Exercinos - First day -9 to 10 a ml . -The Oxford Tunchers' Aspocintion unll bo in sestion. 10 to 1030 a.m.-English Vorb, it Specimen lecitation, Dy Mr. DA. Morribon. Mabtor No. 12. Dorehnm. 10.30 to 11 a m.-Mason's Auntysis. by Mr D. G. Donnockor, Mngter Ottorville P. S. 11 to 12 arson,-Unitary Jiothod, by Mr. F. D. Brown, Mrinctpal Model School, Woodstock, 1.50 to 2 p.mon, Composition, How to reachit it, by Mir. J. W. Clark. Master So. i. Doreham. 2 to 3 pm .-Statice Iung to Btudy it, by the Vemerable Archiencon Swoatman, M.A. 3 to $390 \mathrm{p} . \mathrm{m}$. -Aluobra, How to Tuach it to Junior Clusses. Uy Mr. S. R. Gill. Mastor No. 7 F. Oxford 3.30 to 4 y.in -Sjelling, How to Toach it. by Mr. J. S. Morcor, Mastor Norwich P.S. 4 to 5 pin.-Hyjone, bv Dr. Fiold, Woodstock. Spcond Day. -9 to $10 \mathrm{n} . \mathrm{m}$.-I ecarvarikaport on Orgunization. 10 to 11 am .-Roadiug, (1, 2. 3. aud 4 lemdors), How ro Touch i:, by Miss Fullerton. Cautral ichool, Ingor: goli. 11 to 12 n.m. - Euglish Litoraturo, Entrance and Tenchers' Examinutions, by Jir. Geo. Stranchon. H. M. H. S., Woodstock. 130 to 2.30 p.in. Jupor on Nutural Science in Public Schools, bv Nr. S. T. Filis, B.A. Mathe. Muster H. 6., Woodstock. 3.30 to 3.30 p.m.-Hndmmontary Chomistry, How to Touch it, by Profossor Montgonery, Cunadian Literary Institute, Woodstock. 3.30 to 5 iIn.-Miscellaneous. Hesides thoso whoso numpes appear in the programmo of oxercises. sevoral Inspectors of other countive aro exprectod to tako part in the proceedings. On tho ovoning of the first day a public meoting wili vo held, when Piof. Montgomery will givo a lecture nu Scionce, with expariments. Additional arraugemonts no makiug, including Music and Rondings, that will add to tho attractivenoss of tho ovoming ontortainment. By order of the Committoo on Arrungomonts,
W. Cartylet,
GEO. STRagcion, EI. M. H. G., Woodstock,

Inspector P.S.
Secretary of Committoo.

## EAST VICTORIA.

The Convontion will bo held at the Separato School. Sindsay, commoncing on Friday, April 5th, ut 10 a.in. Programma:-Friday, April 5th, 10 u.in. Clags Registers, Mr. Knight. 11 n.w.-Arithmetic. Dr AfcLollan. ${ }^{2}$ p.m. -Eloction
 415 p.m-MapGeocraphy. Ar. Hallett. S p.m.Question Drawer. 7.90 p.m.
 6th.-9 a.m.-Mrizes, Mr. Irwin 9.45 a.in.-aental Arithmetic. Dr. Mic
10.30 a.m.-Geomotry, Mr. SeDonald 11.15 a.m -History, Mr. Dobson.

## PRINCE F,DVYARD

Tho Assnciation mot on Fubrunry 18t and 3ud. Tho attondanco was very good, and tho intorost minifosted unusunlly grent. The followng is the programme of the work done:-Granninar fur Junior Classos. - Mr. W. R. Hrown. Enployment of school rime, Ins,sector Plat?. Statics, - irr. B. Martin. Con. vorsational Leszons.-Inspoctor Platt. Aigobra,-Dr. Jchollan. Intoliectual versational Lestons.-Inspector Aritingobra, Dr. Mchohan. Intoliectual Aritumotic. - Ir. W. G G. F. Crawford. Iending, Did. MicLollan. Dr. Mc. Soniar Classer, L lowar," on tho evening of the lst to a large audience.
Soutn Hastisos.-The semi-aunual meoting of this Institute was held in the asserably room of the Union School, in the City of Belleville, on Friday and Saturday, 15th and 16 th ult. The atteudance was rery large, nearly every teacher in South Hastings, and $\varepsilon$ large number of the friends of edncation from the city and surronnding country, being prescut. The proceedings were unusually interesting, in consequonce of the atteudance of Dr. McLellan, High School Inspector, who took a very prominent part in the proceedings. Dr. McLellan explained the method of teaching Arithmetic. Algebra and Reading. Professor Dawson gave addresses on Composition and English Literature for 3rd Class Teachers. Inspector Johnston explained how to teach Arithmetic to Junior Classes; Professor Macoun, Geographical Distribution of Plants and Animals: Mr. Irwiu, Geography; Mr. Lenny, Grammat; und Mr. Swayze, Writing Master in the Public Schools of Belleville, peamauship.

Sodta Wellinoton.-On Friday and Saturday, 25th and 26th Fob., the teachers of South Wellington and the town of Guclph held their first regular mecting in the Central School. The altendance was large, about one hundred teachers being preseut, and the meeting was a grand success. Besides the local talent, Dr. McLellan, Senior High School Inspector, and Prof. Soung, chairman of the Central Committee, were present, and delivered addresses of a must interesting and practical character. Mr. Young's address on "Sone relations betweeu Psychology nud Education" was especially good, and showed how simple and interesting netaphysical subjects may become when treated by 80 emi interesteacher. Mr. Tytler, President of the Association, read a paper on "The Entrance Examination." He explained the nature of many of its advantages; had no sympathy with those who thonght Arith. metio was receicing ondue promipence, but regretted that History had been added to the list of sabjects. Mr. Boyle, of Elora, gave a very practical address on "Edacational Hobbies."
Norte Gref. -The first Convention of the North Gray Teachers' Association, at which thero was a good attendance of teachers of both
seres, was held in Owon Sound on the 7th and 8th ult., and pessed off in a manner that far surpassed tho most sanguine expectations of those in. terosted. Tho success attending this Oonvention was andoubtedly largely due to the preseuce of the Provincial Presidant. Dr. MoLollan, High School lnspector. An essay on the new byetom of time tables Fas read by Mr. Benner; Mr Ferguson gave a paper on the teaching of Geography; and John Armstrong, B. A., of the Owen Sound High Sohool, gave an address on the teaching of Analysis. On Thursday afternoon Dr. McLellan gave an address on Reading, during which he reoited the "Battle of Waterloo," and part of the "Aduress of Maro Anthony at the funeral of Cæsar." On Friday the doctor gare another address on "How to teach Arithmetic and Algebra," landling the subjeot in an easy and masterly manner. In the evening he delivered his leoture on "This Canada of Ours.'

## Geadings and ?ecitations.

## COMBAT BETWEEN FITZ.JAMES AND RODERICE DEU.

## arranged as a dialogid by j, hugatg.

Believing that a few of the incidents given in narrativo form by scott and othors may be presonted in a more haprossive manner in dramatlo order; and with a view of supplying dialogues of a standard oharacter, which wll yet bo very uttractivo to all audiences, it is proposed to give occasionally adaptation of some of the most striking scenes in the works of English Authors.
The characters should be dressed in appropriate costume. Foils should be used instead of spords. If the piece is performed with epirit, it is certain to be interesting to spectators.

## Scane I.

Entor Firz-James (Kneeling, with a braid of hair in his hand, which he fixes on his breast as he speaks
Fitz-James. Poor Blancho! no more by Devon-side
Thou'lt search for him who bravely died Defending thee, his new-mode bride.
Thy blood poured out for me demands
A signal vengeance at my hands.
And though Red Murdock low docs lio His rebel chioftain too mast die.
By Him whose word is truth II swear
No other favour will I wear,
Till this sad token I imbrue
In tho best blood of Roderick Dhn!
But hark! what means yon faint halloo?
Like bloodhounds now they seek me ont; I hear the whistle and the shout
Well, I can perish aword in hand !
Roderick. Thy name and purpose! Saxon, Stand!
Fitz. A Stranger.
Rod. What dost thou require?
Fitz. Rest and a guide, and food and fire ; My life's beset. my path is lost, The gale has ohilled my limbs vith frost.
Rod. Art thou a friend to Roderick ?
Fitz. No.
Rod. Thou darest not call thyself his foe.
Fitz. I dare! to him and all the band He brings to aid his murderous hand!
Rod. Bold words, brave jonth ; they surely lie
Who said thou camest a secret spy!
Fitz. "Thes do, iudeed!-Come Roderick Dhu, And of has clan the boldest two, And let me but till morning rest, I write the falsehood on their crest."-
Rod.
Stranger, I am to Roderick Dhu
A clansman born, a kinsmen trua;
Each word against his honour spole,
Demands of me arenging stroke:
Yot more, apon thy fate, 'tis asid, A mighty augury is laid.
It rests with me to wind my horn,-
Thou art with numbers overicorne;
It rests with me, here, brand to brand,
Worn as thou art, to bid thee staud:
But, not for clan, nor kindred's cause,
Will I depart from honour's laws;
To assail a wearied man were shame, And stranger is a holy name;
Guidance and rest, and food and fire,
In vain he never must require.
Then rest thee here till dawn of day;
Mysolf will guids thee on tine way,
$O^{\prime}$ or stook and stone, through watoh and ward,

Till past Clan-Alpine's atmost grard,
As far as Coilantogle's ford;
From thence thy warrant is thy sword.
Fits. I take thy courtery as 'tis given!
And, though thy foe, will proudly share
Thy soldier's couch, thy soldior's fare.

## Scene II.

Enter Roderick and Fitz-Jahes.
Rod. Now, stranger, say why wandered you
Without a pass from Roderick DLu.
Fitz. My safest pass, in danger tried,
Hangs on my belt here by my side.
Perhapa I sought a greyhound strayed;
Porhaps I sought a Highland maid.
Rod. But, stranger, if in peace you came,
Bewildered in the mountain game,
Whence tho bold boast by which you show
Sir Roderick's vowed and mortal foe?
Fitz. Warrior, but jester-morn I knew
Naught of thy chieftain, Roderick Dhu,
Save as an outlawed, ruthless man,
The head of a rebellious clan.
But now, I am by promise tied
To match me with this man of pride;
Twice have I sought Clan-Alpine's glen
In peace; but when I come again,
I come with banuer, brand, and bow
As leader seeks his mortal foe.
For love-lora swain, in lady's bower,
Ne'er panted for the appointed hour,
As I, until before me stand
This rebel Chieftain end his baud!
Rod. Have then thy wish ! Thy rashness rae !
(Blows a whistle, when warriors appear on all sides.)
Those are Clan-Alpine's warriors true;
And. Saxon, I am Roderick Dhu!
Fitz. (Drawing his sword.)
Come one, come all, this rock shall fly
From its firm base, as soon as I.
Rod. (Waves his hand and the soldiers disappear.)
Fear nought-nay, that I need not say-
Bat-doubt not aught from mine array.
Thou art my guest;-I pledged my word
As far as Coilantogle ford:
Nor would I call a clansman's brand
For aid against one valiant hand,
Though on our strife lay every vale
Rent by the Saxon from the Gael.
So move we on ;-I only meant
To show the reed on which you leant,
Deeming this path you might pursue
Without a pass from Roderick Dha.
(They walk around the platform until Roderick suddenly stops and facing Fits-James, says:)
"Bold Saxon ! to his promise just,
Vich-Alpine has discharged his trust.
This murderous Chief, this rothlem man,
This head of a rebellinus clan,
Hath led theo safe, thruugh watoh and ward,
Far past Clan-Alpine's ontmost guard.
Now, man to man, and steel to steal,
A Chieftain's vengeance thon shalt feel.
See here all vantageless I stand,
Armed like thyself with single brand;
For this in Coilantogle ford,
And thou must keep thee with thy sword.
Fitz. Bir Roderick I have ne'er delayed,
When foeman bade me drait my blade;
Nay more, brave chief, I rowed thy death:
Yet aure thy fair and generons faith,
And my doep debt for life preserved,
A better meed have well deserved.
Can naught but blood our feud atone?
Are there no means?
Rod.
No stranger, none 1
And hear,-to fire thy flagging real-
The Saxon canse rests on thy steel:
For thas spoke Fate by prophet bred
Between the living and the dead :
${ }^{4}$ Who spills the foremost foeman's life,
His party conquers in the etrife."
Fitz. Then, by my word, the riddle's read,
Seek youder brake beneath the cliff;

There lies Red Murdock, stark and stiff.
Thus Fate has solved her prophecy ;
Then yield to Fate, and not to :uo.
Rod. Soars thy presumption, then, so high ?
Berause a wretched kern ye siew,
Homage to name to Roderick Dhu?
He yielde not, ho, to man nor Fate!
Thou add'st but fuel to my hate:
My clansman's blood demauds revenge.
Not yet piepared? Ah, then, I change
My thought, and hold thy valour light
As that of some vain carpet-knight,
Who ill deserved my conrtoous care, And whose best boast as but to wear A braid of his fair lady's hair.
Fitz. I thank thee, Roderick, for that word! It nerves my heart, it steels my sword;
For I hase sworn this braid to stain In the best blood that warms thy vein. Now, truce, farewell ! and, ruth, begone! Yet think not that by thee alone,
Proud chief, can courtesy be shown : Though not from copso or heath or cairn. Start at my whistle clansmen storn, Of this small horn one feeble blast, Would fearful odds against thee cast. But fear not,--doubt not,-which thou wilt; We try this quarrel hilt to hilt.
(A desperate combat follors. Roderick attacks, strikiny wildly. FitzJames coolly defends himseli, showing much skill, and occasionally making a home-thrust at his antagonist. At length he disarms Roderick and brings him to his knees. With his sword pointing at Roderick he excitedly exclaims:)

Now sield thee! or by Him who made
The world, thy lifeblood dyes my blade.
(Roderick springing at and seizing Fitz-James, fiercely exclaims:)
Thy threats, thy mercy, I defy,
Let miscreants live who fear to die.
(They strusgle with all their power for the mastery, and at length they fall, Roderick on the top. He dravs a knife and raises it to strike it into the breast of Fitz-James, but while his hand is raised he loses consciousness from loss of blood, ana Fitz-James rolls him over dead. Fitz-James then takes the braid from his breast, and pressing it to the heart of Roderick, rises and holds the braid aloft, saying :)

Thue by just heaven's mighty aid,
Poor Blanche, thy wrongs are dearly paid.

## Reviews.

A School History of Canada ; Prepared for Use in the Elementary and Model Schools. By Henry H. Miles, M.A., LL.D., D.C.L.

Tae Camd's History of Canada; for the use of the Elementary Schools and of the Young Reader. By the samf, author.
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