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# The Canada Scheol Journal. AND WEEKLY REVIEW. 

VoL. X .

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## CANADA SCHOOL JOUBAAL PUB. CO. (Limited)

Orfice: 423 Yonge St., Toronto.

## The ©ardo.

Year by year the condition of the wretched inhabitants of the Labrador Coast seems to become more hopeless. The fisheries, on which they relied almost solely for subsistence, have fallen off, and the condition of the poor people during the long winter must be pitiable in the extreme. In the midst of such hardships and privations the inhabitants cling with singular tenacity to their inhospitable country, in spite of the offers of free transportation to more genial climes. The name Terra Laborador, cultivable land, given by the Portuguese dis coverers, to this region, sounds almost like a cruel irony. It is to be hoped that our Canadian Northwest may yet derive many industrious settlers from the Labrador Coast. They should be admirably fitted for our cold but fertile prairies, and would find them a paradise in comparison with their old homes.

The despatches mentioned last week in regard to the military movements of Servia, were at least premature. No invasion or collision, has set tahen place in the disturbed localities, but the problem. is"still unsctled and tha future_full $0^{\circ}$ uncertainty.

In this, as in all such cases, the prospects of a peaceful settlement, are improved by delay. The military enthusiasm of weak mations like Servin, is very apt to cool under a waiting policy, almust as fast as it originally waxed warm.

Another change in the map of the world is foreshadowed. The scene this time is in Asia, where another slice is about to be added to the Briush dummiuns. The empire of Burmah, what is left of it, has, including tributary states, an area of somewhat over 150,000 square miles and a population estimated at from three to four millions. The country lies between $19^{\circ} 29^{\prime}$ and $28^{\circ} \mathrm{N}$. latitude, and $93^{\circ}$ to $100^{\circ} \mathrm{E}$. longitude. On the Nurth lofty mountains separate it from Assam and Thibet. Its vegetable productions are vadious and valuable, including inexhaustible furests of teak and hupored. The staule fruits are the plantain or banana, and the mango. Rice, wheat, cotton, indigo and tobacco are cultivated. The government is a pure despotism and it is the arrogance and cruelty of the present despot, King Thebaw, which are at least the ostensible causes of the coming conflict and subjugation. The country is contiguous to Tonquin, where the lirench have been this last year or two gaining an uneaviable notoriety, and rumor ascribes the insolence and hostilty of Thebaw, which have provoked threatened invasion, to French instigation. In all probability, the fear of a French occupancy or protectorate may not be without effect in determining the action of the British Cabinet. At any rate a force is being now marshallea in India for the invasion and conquest of Burmah, and the King is preparing fur resistance to the ، "nost exten. of nis feeble resuurces. The issue of the conflict is not doubtful. An unknown but mportant factor of the ultimate results is that the occupation of Burmah will make the British Empire coterminous with that of China for hundreds of miles. From the moral standpoint the best that can be said in favor of the expedition, apart from its alleged necessity as a measure of self-defence, is that the despot does not represent the people, and that it is not unlikely the great majority of the latter may prefer the beneficent rule of England.

## The School.

Errata.-In Mr. Packer's advertisement of last two weeks, the word "Rational" was, by printer's error, made National. The title of his book is "The Rational Method of Teaching Reading."

There is also an error in Mr. Asher's article on "Divisions of Time," in No. 37, page 440, which we now correct. The clause reads, "If his time-piece irdicated Intercolonial time he would need to add 4 huurs," \&c. It should be "subtract."

Owing to pressure of other engagements, Mr. Wells has retired from the editurial management of Tat Slhull Julraal.
though he will :till cominue to write for its columns All communications of whatever nature, whether relating to the cditorial or business deparment, shou'd henceforth be addressed to Mr. J. L. Robertson, Educational Emporium, 423 Youge Street, Toronto. Let him be notified promptly of any irregularities which may occur, and they will be as promptly rectified. The new arrangements are now complete. Punctiality, efficiency, and progress are the watchwords, the determination being to make the paper better than ever.

Philadelphia has fallen into line in the work of inclustrial training in the schools. The Board of Public Education of that city has opened a Manual Training School for the instruc. tion of boys who have graduated from the grammar scheols, in the use of mechanical tools. A suitable building has been fitted up and furnished with all needful appliances, and com. petent instructors have heen appuinted to supcrintend uperat tions. It is not the trade, but the use of tuols that is to be taught, or, in other words, the schuol is strictls fur manual training. Of course, as every cducatur hnuws, the training of the hand means the training of $e ; c$, taste, judgucnt, and all the correlated perceptive farculies as well. This instatuiun is untderitond to he but the enmmencement of a system which is to; be gradually evtended down through all grades of the Fublic Schools. These new departures in the direction of industral traning, which we are chronicling from week to week, will be watched with great intercst by tuderts of the hard ducational and moral problems which are evers where pressing fur sulutun. It seems scaredy too much to hop that in a wase and shifful combination of indurrial and mental training is to be fuund a means of deliverance from nuch of the moral and sucial cuil which is the outgrowth of the laldessumso of harge classes who are growing up in the city fur lives of puverts, vice, and crime. The argument which the Bulletn so well puts for Phuladelpha admits of a much wider appliration
"Whatever adds.) Philade'phia's industrial furcts, whatever increases the class of her skilled merhanics; whatever tends to dignily manual labor; whatever enlarges the opportunities of honeser self-support, puts noney into l'hiladelphia's pocket and reintorces the elements of lhmadelphia's greatness. These training schools have come into caistence by no fanatical creation of cducatic nal theorisis, but as the necessty of the times, and as such they must be liberally suppiorted. Whatever thes cost will come back to Philadelphia a hundred-fold."

Principal Gramt, in his address at the anniversary of Queen's College the other day, referring to the proposed university federation scheme, sald:-"The so-called confederation scheme has not a single clause to secure the continued existence of the colleges, we now have, much less a single word indicating a de. sire to improve them." In these words Dr. Grant puts his finger upon the weak poi in the scheme of federation as finally modified. The great end to be sought in any such movement is the expansion and vigorous life of the colleges A central universtty, surrounded wath a cordon of teaching institutions, each full of vigorous life and of possibilities of unhmued growth, might gue a mighty inpulse to the higher education of the country: A central university, constituted to
relieve the colleges of a portion of their legitimate work, and thus acting as an enervating rather than stimulating force, would be a very questionable boon. Not as a help to existing theologica! schools, but as a means of fostering sound and broad literary culture, would the federation be justifiable.
"An Old College Boy" writes to the Mail on the Upper Canada College question. Speaking for many other old college boys as well as for himself, he says:-"We believe that the college in its present situation is an anachronism, while we also belitve in the vital necessity for its continuance as part of our "ducational system." With the first part of this sentence every intelligent educatur in Ontario must agree. The college is an anachronism. With the second part most such, old college boys perhaps excepted, will, we think, differ. Having adnitted so much, the burden of proof rests upon those who can suppuse that the more remoral of the institution to the outshirts of the city will mathe it the le:s an anachronism. It is to be hoped that the suegestion that a mecting of old college boys be called to discuss the question, mas be auted on. We should be glad to learn what can be suid and all that can be said in favor of cominaing as a part pf our educational sostem an institution which has cuthiced its special usefulness, and is now doing merely the same work that is being done by numerous collegia c institutes, - duing it no better and at ten times the cost.

The alouse of the written cammination which has made the name a synonym for "cram," is leading to a very natural but illugic.al result. The whule system of uutside examinations is being viguruasly denvunced in many and even in very high quarters. This is, we think, a mistake. We hnow no other macthud at all cyual to it fur compelling the pupil to conceive clearly, think clusely and reason logically. Nor can we conccive of any substitute, at all comparable to it, as a means of testing the reality and extent of a student's acquirements, a desirable and often necessary thing. The root of the eval is not in the system but in the kind of examinations. Examining is a science and an art and should be raised to the rank of a profession. We believe it quite possible so to frame a set of questimns on almost any subject as to give the death-blow to cram, by rendering it useless, and so to estimate the value of answers as to recognize only genuine, intelligent, and conscientious work, and developed brain-power, and to recognize these in whatever form they may appear.

The Glole in a recent article defends the one text-book system in the following remarkable manner:
"If the last book authorized is reallythe best text-book on the subject, why not allow it to displace all the others on the list? Is it not a positice loss to a school to be using inferior textbuoks? Is it not the truest economy to use the best implements, as it is admitted to be the most economical to engage the best teachers? And this brings us to consider the second proposition, that the re should be but one authorized text-book on each subject in the public School course. To this it is objected, that you limit the choice of the teacher and consequently dampen and perhaps cramp his cenergies. But the teacher is after all a public officer, appointed for a weil-known
purpose. We limit him to certain subjects. He is nut allowed to teach classics or eren moderns in the Public Schoul. Ite is required to teach according to a certain programme, neither more nor less. Is not this cramping his energies? Nuw if, in the public interest, he is "cribbed, cabined, and confined" in these respects, why not limit him in the choice of text-books also, if it can lie shoum to be for the pulhic adevantage"

Sir Lyon Playfir, in his Presidential address to the British Association at Aberdeen, severely reproached the British Government, for not aiding more liberally the secondary and higher education of the country. He put in a strong plea, not only for more State aid to colleges and universities, but also for bringing the secondary and higher education more immediately under State control, by the appointment of a Minister of Education. With all respect to the learned President's scientific attainments, we dubbt if enlightened public opinion will follow his lead in the domain of political econony. If we mistake not, the trend fimudern liberal thinking is in the direction of more voluntaryism rather than more State contrul and support of higher edacation. In regard to the second point, the naking the Superintendent of Education a Cabinet Minister, the Educational Times deals trenchantly with Sir Lyon's appeal to the example of France and Gernany. It quotes M. Jules Simon to show that whatever may have been the cause of the intellectual sterility of France during the Napoleonic regime it c.suld nut have been due to the want of conncction between the higher education and the State. The organic Decree of 1 Sos crialed a hicf with absolutc authorits over all educational institutions, public and private. "It was an intellectual des, visim side by side with a political and ad ministrative desputisn." The Times adds .
" It is not to France alone that we need louk to find evidence that a Minister of Instruction may pussibly use his authorit) to extend his uwn power and to crush out all id sas that conflict with his own. It was the Cultus-Minister of Prussia, Raumer, who, suspecting Froebel of socialism and irreligion, issued an edict forbidding the establishment of schouls after ' Firıedrich and Karl Frueb-l's principles, -uncle and nephew included in one condemnation, although it was only in respect of the latter that there could have been any toundation for the suspicion of the Minister."

Are these the historical models after which the educational system of Ontario is being moulded ?

## DON'T RING SO MUCH

Somo teachers mako their call-bell an intolerable nuisance. They strike it for classes to rise, to pass, to sit, to turn, ©c. When pos sible, adopt signals that promote silence. An upward movement of the finger may bring pupils to their feet; a side movemant may tell thom to pass ; a downward movement, to sit ; and so on through he whole day. Eyo signals are preferable to ear signalls.-Silvo $l$ Education.

## THE TEACHER OU'T OF.SCHOOI.

The teacher in school affords a fruitful scheme for educational journals, and one that we suppose will not soon be exhausted The great business of a teacher is, of course to teach, and to teach in the very best manner. And the great business of a teachers' journal is to afford the teacher the best possible hints
and helps in becoming what every individual teacher should aim at becoming-a thorough master of his protession. But, in addition to being an educator of the young, the teacher is also a man or a woman, or, as perhaps we should sus, in conformity with the current fashion in speech, a gentleman or a lody. We see no reason why every teacher should not eventually become a genteman or a lady in the highest and best sense of the term, that is to say, a man or a woman of the h.ghest mental culture and the highest moral character. We are well aware that Public Scinool teachers in Canada often begin their professional life without having enjoyed the highest advantages, either educational or social. But, it after ten, or fifteen, or twenty years of service in a profession which holds out so many opportunities and inducements for self-improvement, the teacher does not at least approach the standard indcated, it must be largely his own fault.

In the first place, there are very few occupations which afford so much time for self-mprovement as that of teaching. In most cases the industriuus teacher can secure some hours every day and a large part of one day every week fur his own purposes. We are well aware that this statement needs many modifications. The popular idea that the pusition of the schoolmaster or schoolmistress is a very easy une because of the shortness of the hours of labor is very erroncous. The teacher who has done his whute duty for nive or six hours in the school-room has done a hard day's work, and has not much nervous energy to spare at us close. Especially is this the case when, as in must country schools, the two hard duties of instruction and government have to be carried on at the same tume. The comparatuve shortness of the work day and the yearly vacaluous alone render the mental strain of such a work endurable. Those who have trieai both will testafy that they have often found therr energies mure completely exhausted, their sense of fatigue greater, at the close of a six-hour day's work in the school than at the close of a ten-hour day's work in the harvest field or at the mechanic's bench.

Happily, however, the truest rest is not necessarily cessation from labor. With the mind, as with the body, a change of employment is often the best remedy for fatigue. A couple of hours spent in a brisk walk in the open air, or in a leisurely stroll in some inviting field, will generally prove a most effective restorer of tired nature. Nor need such walk or stroll be barren of higher results than mere recuperation of exhausted powers. To the open eye and ear Nature addresses a varied language, and her teachings are always full of interest and profit. One may have a keen eye for the beauties of landscape. Another may delight in the study of plants, or birds, or insects, or mineral specimens, or geological formations. There is no good reason why almost every teacher should not be an amateur artist or scientist in some special department. The opportuni- ${ }^{-}$ ties afforded by these hours of recreation for social intercourse should not be overlooked. Kindly and sympathetic intercommunication with the minds and hearts of others is one of the best means of self-improvement as well as one of the highest of human duties.

But, apare from the work and the lecessary recreation, there will still be left a few hours of every day for reading and wrung. How many men and women of literary tastes and hungry minds would give almost anything to secure a couple of hours every day for siudy and thought. Two hours a day for 300 days in the year: 600 hours, or 100 six hour days. In ten years 1,000 diays of six hours cach, or about three working years, all to one's self. How much should be accomplished in that time! And what is to prevent almost every teacher from securing at least an much? Are we not then speaking within bounds when we say the teacher ought to be among the foremost in every department of social and literary culture?

But there are lions in the path. Yes, we know it ; many and formidable they otien are. The want of books in rural districts and, with the pittances received as salaries, the want of means to buy them. The chaims, lawful and right within certain limits, but to be resisted when ruinously excessive, of pleasant companions and social gatherings. Most to be dreaded in these days of "cram," the preparation of examination questions, the reading of reams of ioolscap in the shape of answers, and the getting ready each evening for the everlasting drill of the morrow. The first of these sostarles is serious, often insurmountable. Where schools are sufficiently near each other the formation of teachers' reading clubs will materally help by dividing the difficulty. But why confine such clubs to teachers? Are there not in almost every district a few like-minded persons intelligent enough to take part in carrying on the work of surh a club? The temptations to fritter away precious hours in nonsense and gossip can be conquered only by moral strength and courtcous firmness on the part of the teacher. For the third difficulty we know no remedy save the good sense of public educators, which is already tending to reaction from the absurd and killing extremes to which the examination craze has swung. But, after all, the proof of the strength is to be found and often the highest benefit reaped, not in the removal, but in the overcoming of obstacles. The teacher who will may eventually take his place amongst the wisest and best in any land. The true man and woman will cherish no lower ambituon.

## Special.

elementari chemistry. (HAPTER IV.

## secrion 11.

CARBON.-(Cnn lultell.)
Symbol C. Atumic Wcight, $1 \approx$ (11.97, Molecular Unknown.
102 Reducing power.
Exp. 7. - Heat a glass tule in the spirit-lamp and draw it out to a point. Drop into the point, of the tube a very small quantity of arsenious oxide, $\mathrm{As}_{2} \mathrm{O}_{3}$, and ahowe it place a splint of wood charcoal. Heat the charcoal red hot in the flame of the lamp, and gently mise the hand so as to bring the oxide into the flame without taking the charcoal out of it. The
'ar enums onde will whatilue, giv min up its ungeren to the carbent, and deposit metallic arsence on the cold part of the tubeThe aflinity of carbon for oxygen at a high temperature is very great. It deprives most intallic oxides of their oxygen and thas briugs them into the metallic state. It might almost be said that the art of metallurgy, as it now exists, is bosed upon the athinity of carbon for ocygen at a high temperature. 103. Indestructibility.-Churcoal, and carbon in most of its forms, is extremely indestructible unless exposed to an elevited temperature. Hence stakes and fence posts, if charred before they are put into the ground, hast very much longer than when this treatment is neglected. For the same renson it is a common practice to char the interior of tuls and casks destined to hold liquids.
104. Lampblack. This form of charcoal is obtained by burning turpentine, resiil, or other vegetable matters rich in carbon, with a limited supply of air. It is not pure earbon. It always retains a portion of incompletely burned compounds of cathon and hydrogen. It furnishes the most indestructible of black pigments, and has long been employed on this ac count as the basis of printing ink.
105. Animal Charfonl.-Charcoal manufactured from animal substances, is called amimal charcoal. When bones are strongly heated out of contact with the air the variety of charcoal thus produced is called Bone-Black, and is much used by sugar refiners.
106. Graphite.-This is a cystailine form of carbon occurring in massive or hexagonal plates. It is also called plum bago, and is more familianly known as back-lead. It is oltained from the earth in hroge quantities, and is usel for the manufacture of lead pencils, and for giving a black polish to iron articles, such as stoves, \&e., and for protecting them froun rust.
107. The Diamond.- i'he Diamond is another form of crystalline carbon, occurring in well-defined crystals belongiug to the regular system. It is the hardest substimee known. Desides its extraordinaly value as a gem it is used for cutting glass. Very small diamonds are said to have lieen lately pro pared artificially by a Clasgow chemist. If the dianond be suspended in a cage of platinum wire, hented to bright redness, and then plunged in oxygen gas, it will burn with a steady red light, and with the production of pure carbon dioxide.
108. Allotropic Forms.-Charcoal, graphite, and the diamond are but ditierent forms of the element carbon. They differ in harduess, in color; in specific gravity, aud in many other physical properties. They are alike infusible, alike able to resist the action of sulstances which attack most other hodies, aliko in being combustible, and alike in the same weight of each yielding the snme quantity of carbon dioxide when burned. Such phenomena as these afford strong grounds fer: believing that our present elementary substances may have a composite structure.

## questions on carbos.

1. Give nu necount of the different methods employed for preparing elarconal fiom wood. How would you demonstrate the preparation of charcoal on the small scale?
2. Cublun is stid tu exist in thase allutropic modifications. Deseribe why dianond, graphite, and charcoal are considered to be moditications of the element carbon.
3. How may the presence of carbon in organic matter be shown?
4. What happens when a pieco of perfectly dry charcual is placed in a jar of ammonia gas? If the jar of ammonia is standing over moreury und a piece of dry chareoal is placed in it what happens? What is the cause of the change?
5. What happens when elarcoal is heated with a solution of indigo or logwood? Which kind of churcoal asts inost roadily on these bodies, and to what useful purpose is it applied?
6. How does charcoal act as a disinfectant 1

How is animal charconl prepared and what are its properties?

Descuibe the allotropic forms of carbon. How would you prove that these different substances consist of the same element?

## HIGH SCIIOUL LTPBRATCORE.

BY J. E. WETHERELL, M. A.

## Second Papra. <br> The Rime of The Ancient Mariner.

1. What does "Rime" of the titlo mean? Why is it not " Mhyme"?
2. In what year was tho poom publislied, and how old was the poet at the time?
3. What was the name of the volume of verse in which the poem first appeared? What is meant by calling it a "joint volume"?
4. Why was the year in which "The Ancient Mariner" was written tlie most renarkable yoar of the poot's life?
$\overline{0}$. How does "The Ancient Mariner" in its present form differ from the original poem?
5. What is the "gloss" of the poem? What filled the place of the "gloss" in the first edition? Point out any literary merits of the "gloss." Show that it serves to link Coleridge's philosophy to his poetry.
6. Give Wordsworth's account of the origin of "The Ancient Mariner."
7. What part had Wordsworth in constructing the scheme of the poem? Did ho contributo any details?
8. What mas the origin of the main fancy of the poem?
9. What led to the introduction of the Albatross:
10. Give the substance of the Latin quotation prefixed as a motto to the poem. What do we learn regarding Coieridge's predilections from the knowledge that ho had dippod into the theories of such visionary moralists as l3urnet?

Mention all the Nuturas invisibiles of the poom.
12. To what compact between Coleridge and Wurdsworth does the poem owe its praoternatural element?
13. What does Coleridgo mean by "the two cardinal points of postry"? Towards which of these points does Coleridge's puetry gravitate?
14. What is meant by "poetic faith,"-an expression used by Coloridge himself in comnection with his romantic pocms? What moans does the poot employ in "The Ancient Marmor" to secure. this "poctic faith"?
15. Show from the poom that Coleridge was a keen observer of nature.
16. "What the poct himself was i:z the uorld, his Mariner is in the poem."

Illustrate this statement.

Rofur to passages in the poem that lead ca to think of the prot What is meant by the tems "objertire" and "snlijective" in litorature? Refer to passages in tho poem hy way of illustration, Is the mode of treatment in "The Ancient Mariner" mainly "objective" or " subjective"?
17. How do the fanciful pretures of the puem compare in vividness with the realistic scunes?
18. Discuss the following theories regarding the object of the puem :-
(a) The object of the puem is "to inculcate a love of all the works of creation, especiatly all living beings."
(b) "The Ancient Mariner is a system of Christian philosophy, describing the fall from innocence and faith and the return to virtuo and belief."
(c) "It is an unconscions allegory."
(d) "It is a work of pure imagination."
19. What was Coleridge's answer to the criticism that the poem is improbable and that it has no monal?
20. Is it true that "The Ancient Miminor preaches no sermon"?
21. What constitutes tho main charm of the poem? Refer to sume of the minor attractions.
22. How do you deal with the criticism that there is a disparity between the crime of the Mariner and his terrible and lasting punishment?
23. How do you answer Swinburne's criticism that "the great sea prece might have had more in it of the air and thavor of tho sea"?
24. What do you think of Wordsworth's remark that "the imagery of the poem is somewhat too laboriously accumulated"?
25. Do you think it is a fault in the poen that "The Ancient . ariner is always passive"?
26. Why did Coleridge, in editions subsequent to the first, eliminate from the poem the description of Death ?
27. Show that the Mariner's punishment of continued isolation is in keoping with the nature of his crime.
28. How do the spiritual crentions and situations of the poem compare in point of invention, grace and delicacy with the super naturalism of other Einglish poots:
29. How do the repeated interruptions of the Wedding Guest affect the "unity" of the poem ?
30. On what grounds has it been said that "The Ancient Mariner is one of the supreme triumphs of poetic art "?
31. Into how many parts is the poem divided? How is this number employed in the story itself? What are the other "mystical" numbers used in the poem?
32. How doos "The Ancient Mariner" compare with the old English ballads
(a) in longth,
(b) in the number of divisions,
(c) in diction,
(d) in inetre,
(c) in subject?
33. "The Aucient Mariner is a most striking and thrilling inven toon considerod as a picture ; but, considered as a train of causes and effects in the pootic domain (to say nothing of the facts of nature), it seoms to mo essontially meagre-defective in the core of common sense."-W. M. Rossetti.
Huw can ihis criticism be answered?
34. "Coleridge has boen assailed as an unmeasured and disin. genuous borrower."
On what ground has $D_{0}$ Quincey accused Coleridge of plagiariom in the "Ancient Mariner"? How can the charge be mot?
35. "The poom has some of the turminology and quaint couceits. $f$ the old ballads."
36. "Tho windering of the Miariter is dombthess anthated from viat of the wandermag Jow." Normate the leneme of the wambermp Jen In what tamons eollectom of ballads dhal Colernine find it?
37. Remark on the melody of "The Anment Mamer." What prem of Colluidgo's has been characterized as "the supreme mudel of music in our harguage " ?
35. Doscribe in dutan the metre of the poom. lify what name is the metro known? 'To what hymin-metre dines it correspond?

39 Explain the metrical tums, heptumeter, fimefer, tetrameter, sertain, quairain, quintain, amphibrah, catulectu; anapest, acephat. luns.
40. What is "middle rhyme") In what lines of $t^{\prime}$ to guatrain may it be used? Why may it nut be used in the third amd fourth linco ${ }^{3}$ of quintains?
"The long lames never rhyme." What oxcoptions to the rul
42. What is "double rhyme" ' By what other name known ? Give an example from the poem.

THE HISTORICAL DEVELUPMENI UF l:DUCATIUN.
 rof sovil scorta.

## (liontinued.)

Admitting the thonsand mperfections that still attach to the methods of our schnol- roms, whe can worn esthate the mportine of thes grame :evelnprinent Whadues but seo that it is to the
 respending to its thererefical pimeiphe, hhat wL unceall that as must hapefal in our present whint. an ami wathout, wur professwally trimed teachers. our kindergartens, our wheet lessons, our teach. ing of grammar by practice and of scelace by obsuation and experiment, not to omit the aspirations which are cherished for: some really effective mode of intermingling in our schools the liter. ary and industrial features of education's It is casy, and rieht, too, to regret that all teachug is not matural, sympathetic. a fiic., cious: that so much of it is meehamical, trathtmal, haphatcon, it case of "the blind leadisg the blind." But a broad view baplon os hopefulness. False and umatural methods ate at least begronning to die out, and even the fact that they are ronted and gromileid $n$ the tenacious soil of human inertia camot secure their permanemt vitality.
3. 'Ihe last topie to which I propose to refer is the relation of ehlecation to the Ntate. Dealing with this subject in its historical aspeets, I am not called on to discuss the ibstract principle of the abligation of a State to provide for the education of its youth-its future citizens. Whatever differences of opinion exist anoms those who recognize the gencral validity of that wblig.tion, as to the precise theorerical grounds on which it rests, and whotever dacerstacs of practice may prevail as to the molle and limits that geserat the application of the prinepple, this much at least is clear, that the civilized sations of modern times agree to treat education as a national necessity. Simes Siate systems of educat on aro mure clastic, more tolerant of adenctes nutside of state control, than uthers, but the umbersal law of nations recopaizes the instruction of youth as a matter wath the puoper scope of pablic authority, and as thus prescribing spectic duties to the anational understanding and conscience. Legislation ordains systematic provision for organizus and operather the forces of education, establishes regulatioe prometplas for ther operation, and many cases enforces by positive statute the use of the opportumttes thus provided. My purpose being historical rather than controversial. I content myself with two brief observations. The assailants of the theory of a State control of education find themselves confronted by the almost insuperable difficulty of laying down lines and prinecples of attack, which do not virtually involve the amililation of the elementary ideas of national existence and anthority. To this may be added a simple statement of the fact that the forces wheh have operated in some cunntrics and in certain states of society to retard the full development of that theony, are mannestly growng weaker and weaker. The of vous tendency is townrds a completer nationalization of education.

But how dees thas guestom stand related to hastory: We are withwint offormaty for lhomongly st udy ducathotal mathumentahties of the mincent mathons. The sehodo of Greece and Rome, if not strectly state schools, were certanly secular in the sunse of provoding a comso of trammen for the gensetal daties of entacenshy, withont reference to aperable cate or any ecelestiastacal function. And bemg of thas chmacter, mastrmente designed to furnash a culture neceesary for all, we maturally fand no historical gromads for supposing that in the eatiest centuries of Christeniom, advantago wis not taken of then facilities by Chrse thans as well as uthers. The steps hy wheh e lacation came 10 after times chiefly withm the control of a particular class, the clorgy, I need not trace monutely. Tho tremendons cataclysm which swept away tho lioman Empire swept with it all veatiges of an ongamsed system of pubhe mstructon. Tho cause of learning had been list but for the lidelity to its miterests of those who manstered at tho altar. It is mot enough to saly that on those ages of upheaval and dissolution the Church was the agency best adapted to foster motellectual trammg. as respects many centurnes, a comparative monde of speech ts out of the question. There was no other agency. But for the efforta of pious churchmen society would be absolintely overwhehned hy the dehage of babarim. Undonhtedty their primary impulse to educational wow was a moral and religious one. Conditioned to a man row teld of effiort, shat up to do only a part of (hat "heheh was desmable, it was natural aud reytht that they should play the cheef emphasis of what was of the highest mport. But it would be to defane the Church of these troub:ous thmes to say that she had nut a distuct conception of the rahe of education in itself , and for its own sake. Xon search her annals man for any trace of sympathy with the potion wheh magame writers of our own day hato undertaken to sustan, that the spread of popular educaf then tents to the merease of crme. She looked upon intellectuel as the natural ally of moral culture ; and this vew determined her policy m dealnig with the barbarons penple for whose salvation she halowed. Her watchwords had not ambepate the modern maxim, " It you educate a man's intellect only, you but make hmm the greater scoundrel, a maxime capable of a true sense, indeed, but tor often quoted, I fear, in support of the (iod-dishomormy falsohoud that the pursuit of the socalled secular knowledge has a por se cundency towards moral depravation.
Bat erroneuns conclusions must not be drawn from the admitted selatons of the Church of the Middle Ages to education. The effirts to which I referred did not proced on the score of a theore-
 same subject. The Church smply recogn\%ed the duy that devoleil on herself, and, with exceedmoly hmited agencies at command, diselarged that duty in such a manner as to cooke the admiration and the gratitude of succechng ages. But when at thmes the idea of nationality cano forth intospecial prominence, and great rulers the Alfred mad Chamemange had help to oller, she freely yelded to the representatives of the State the right to direct the currents of national education. There are far better hastorical gromuds for regarding our noble Saxin ling as the inventor of "compulseny education "than as the origimator of "trial by jury" or fonnder of the Liniversity of Oxford. As for Charlemage the great orgni\%ang gemas of the centrat medheval pertod, white many of has phans peashed wath hamself, the schools whech he founded survived lise wreck of has imperal pulay and becano permanently meorporated in the general structure of European society.
Much the samo lessun is thught by the history of the unversities of Europe, thise fanons mstitutions whose degrees, "the stamp and seal of profound erudition," " ere ouce in as hugh estem as a patent vi subility, or even as " the Gulden liose " itself. In therr carlicst manfestations, as as well known, they were not the product of religious impulses or ecclesiastical deurecs at all. They owed then or,gin to clearly traceable historical causes, events wheh filled Europe whth a new race of scholars, and brought those scholars together at various points for the purposes of mutual aid, comfort, and protection. And when at a later period the miversitics received the patronage, and came, to agreater or less cxtent, under the control of the Church, there was a collateral development of a relation to the State in which each mstitution was planted. In process of time the universities, as a rule, becamo distmetive mational institntions; without them the national lifo and netivity were felt to bo unorgani\%ed andi incomplete. Speaking generally, the mational notc or characteristic is retained by the umversities of Europe until this day. They are part of the organized life of the mation, and whilo accumulating and distributing the priceless treasures of learning, they play an important part in doveloping the impulses of patriotism.

Wo thas see that in the old 11 ork the des elopment of the duc- '

 tons, providang piecal culture for the few. On this contio.ent the manner and onder ot evolumon hare, to as certan extent, been different. Dere alongside of a practically unammons recognation of tha reght of the State to dreet elementary education, thero has grown up a theory that bejond that sphere nathenal mitelpusition is un cailed for mind improper. Conspicnons cases uny be guoted to show that thas theory is ant umversaby hedd ather m the Vinited States or Camada, but that it has been determmative of the educational policy of hage sections of the people there can bo nu dumbt. ls it a sound one Mature ieflection has convenced me that it is not. Thas is assuredly a case of "ull or mothing." The regulative right wheh is theoretically admetted in respect to the education of children camot be demed in respect to the education of youny men and uomen. Frame any theory you like to justify State interpusition and control on education at all, and it will logically incluilo tho whole reach and seope of education, or it whll be found wating as a theory altogether. Even assuming that as one who would

> "A hair divide
> Betwixt the nor' and nor'west side,"
wo had found the theoretical limit of national right and responsibithty, whe can undertake to dratw the late practically with any assuramee of accuracy? Who, amid the changing conditions of industrial and sucial hife, can venure authorititively to say to the State: "Thus far shaft thou cume bat no farther "" The fact that many of the High Schools of today aro better equppped ami manned than many Universities were forty years aro, would suggest the inference that the line between what the State maty rightfully do and not do m the matter of education shifts with the progress of civilization!

So much un the score of theory. Those who object to my conclusions can point to justly distmguished seats of learning, such as Megill, or (uacen's, or Victuria, built up by the pucely voluntary effurts of private madnaduals or religous denominations. Bat it is quite possibio that some, or oren all, of these institutions uwed thear orgin to the falure of the Stato to discharge its ubligations in respere, to higher education, If so, the fact sumply increases the clam of such Universities and their founders on our admiration and regard. But I am prepared to contend for the general principlo that it is undesirable to cat miversity education adrift from the corporate national lifo altogether, that by doing so we neadessly sacratice elenents of power wheh every truo patriot should takio into account. Whale admitting the impossibihty of shetehing a typical university that woud suit all lands alike, and that the conditions of each country must largely determino the moutds in which its mstitutions should be cinst, I venture is think that the neigh. boring Republic sutters grently from the "free and easy" voluntaryism that charaterizes its university system. An Americam college president Dr. Barnard, of Columbia-after referring to the aigid control exurcised by the Governments of Europe over the erection of universities, states the results as follows: "The sources of honor are so few, there characters are so high, their teachers are, in general, so celebrated and of so miversally recognized authority, and tinally the tests to which they subject uspitants are so rigorous, that a certifieate of proficiency received from them has a meanimg that all the work can understand."

He then adds:-"All these advantages we have thrown away. Wo have not only multiplied nlmost indelinitely these fountains of honor, but wo have taken no care that, in their composition, they shall cither represent learning or command reverence. A village parson, it village doctor, and a village lawyer, supported by a banker, a shopheeper or two, a manufacturer, and perhaps a gentleman farmer, constitute very commonly the tribunal whotro to dispense the precious distinctions which the conservative wisdom of other times entrusted only to the honored hands of those whom universal consent pronounced to be the wisest and the best." 'Ihe remedy he suggests fir what he calls "thas miserable business" is an invocatoon of the authority of the State. In a portion of the press of my own Province, which, as you may know, has five degreeconferring institntions or universities, $I$ am sumetimes assured that the policy of dotting the country over with small colleges has worked well in the United States. Dr. Barmard does not seem to think so. A mero statement of facts almost forces on us the belief that it must to many be accompnnied by a lowering, an unspeakable lowering, of the true ideal of unsersity education. Thero are, if I recollect aright, forly-seren (Commissioner Eaton's report gives the
exact numberi chartered, deuree confrring colleges or universities in the State of Uhio. Now there is not it member of your Assuciation who conk not name off hand the universitess of the Cluited Kinglom; searcely one, 1 thank, who could not, unprompted, givo the unmes of the ehief universities of the Cierman Empire. Ohio is separated from Ontario only by the narrow waters of Liko Erio, yet d pledge my wurd that there is not a member of your body who his ever heard of three of hor forty seven universities. And such is fame!

Ame if now, with considerablo venturesomeness for an outsider, I allude to your uwn magaiticent Province, it is not hecause I sup. puse that any anch state of things as that which I have just described exists here. I know well that it does not. 'lhe insentutions which exist side by side with your noble Provincial University have an honorable record of self-saterilicing and successful ma. deavor, and the vigur with wheh they have maintatined true university stambards has long attracted my notice and my almiration. I venture to allade to Ontaio because, more favored than most, she seems pussessed of conditions for reahomg, what, perhaps after all, is the illeal typo of the university, that which joms to national atherity, prestige, and power, the free play of indisidnal philinthropy and denominational \%eal.
Logleal order and completeness would reguire me to return from the dieressum into wheh I have wandered, and trice out somewhat mantely the lan which has thas far ganded the development of popular education. But I must forbear, having, I fear, already trespassed buyond the butads of reason on your patience. Lat it Ie chongh to congratulate uurselves that, though thero may still be in connection with this great grestion some unsettled problems of no inconsuderable magntude, history has indacated the substantial somudness of the prmeples which gude our labors. Nos pessimistic apprehensions, nu " pror demonstrimons of failure, can gainsay the great fact and lesson of hunam progress. 'The noal towards wheh all civilaed natans aro rapidly muving is the conception of organzed pubhe edncation, nut as ath econuma arrangement for lessemas pulte expenses, nor as at chatable contravate to benefit the puor, but as the means by which a free people, appreciating the unepeakablu blessia, ${ }^{3}$ of kinwledge, hatro dutermined and decreed to make thuse blessmgs both permament and umversal.

## ©ximination papcrs.

## EDLCATION DEP.MRTMENT, ONTARIO. $\rightarrow$ JULY

 EXAMINATIONS, iS85.FIRST CLASS TEACHERS- (GRADES A AND B.
CHAUCER, POPE, AND WORDSWORTH.-(Continuel.)
Examiner -John Seath, B.a.

## III.

5. Give the snbstance of the sonnet in which Wordsworth enuncoates his theory of the puet s art. Ipply his conun to the sonnets. 6. " Some of the noblest of Wiordsworth's sonnots are consecrated to liberty; some desuribe with incomparable felicity the personal feelang ot the writer; sone might be termed sinuly descroptive, were it not that even these aro rased ahave tho rank of desiriptive poetry, by the pure and lofty imagnation oi the puet. "The holit that never was on sea or land,' pertades the linablest of theso peces, and throughout there is malcated it cheorful, because divine, philosophy."-Jennis.
Justify this criticism an detail, giving in each caso one well marked allustiation from Mitthew Amold's collection.
6. It is a beauteous Leoning, calm and free ;

The holy time is quiet as at Nun
Breathess with aduration; the broad sun
Is sinking down in its trancuillty;
'the gentleness of hearen is on the sea :
Listen! the mighty Being is awake,
And doth witn his eternal motion mako
A sound like thunder-everlistingly.
Denr Child, dear (iirl! that walkest with me here,
If thon appear'st untouched by soleman thought,
Thy nature is not therefore less divine:

Thou liest in Abrahru's bosmm all the year ; And worshipp'st at the 'Templo's inner shrine, (ind being with thea when we know it not.
(a) TDesignate this sonnet by an appropristo titlo.
(b) Write explanatory notes, grving a conciso account of Wordsworth's phalinsphical tenets as embedhed in that suanot.
(r) Hy in wy this s mue: is tosiaridelas une of the finest m our language. Show, as well as possible, wheroin its perfection consists.

## IV.

8. Cuntrast the stylos of Chaucor, Popo, and Wordsoorth, illustrating your answer from therr works.
9. In the s.ano in wimer, conseast the attiturius of these authors towards $M$ un and Nature.

## GEOMETRICAL OPTICS.

## Examincr-J. C. Glashatn.

1. State the laws of reflection of light.

Determmo the position of a lumbons point so that its four images formed by one rellection at each of four vertical plano mir. rors may lie insa straight line.

2 Determino the \&eometricial fucus of a pencil of rays after direct rellectuon at as spheric.al surfice.

If a pencil of rays issue from a point $P$ in a diameter $A B$ of a sphere of radius $r$, and if $"$ and $r$ bo the distances from $A$ and 13 reapectively ni the gemmetrical fo.i after direct rethection from A and, B, show that

$$
(2 r-u+v)(r-u+r)=(u+c)^{2} .
$$

3. State the laws of reiraction of light.
souse'The rays of a lominous $p$ int 12 inches above the surface of still water 12 inches deep, enter the water, are reflected from the bottom of the vessel, and emerge. Determine the position of the final image formed.
4. Determine the geometrical focus of a pencil of rays after direct refraction of atspherical surface.

A small pencil of rays directly incident on the surface of a refracting sphere of radius 2 inches, is brought to a focus at a point $3 t$ mehes from the centre of the sphere. Find the refracting $\mathrm{i} \cdot \mathrm{i}$ dex, the orgon of the pencil of rays beng 10 feet from the centre of the sphere.
5. Show how to determine by exporiment the focal length of a lens.

The back uf a doublo convex lens is quick cilvered. A small pencil of ratys directly meadent on the lens, enters it and is re-1 flected. Find the ecometrical fucus of the emerging rays.
6. Describe tho Gadile.n telescope and determme tes magnifying power for atn eye that commot see distinctly bejond 2 feet. What are the adrantiges and what the disotuantages of thas telescope?

The magnilyin's 'power of an opera gheys when directed to a distant oljece is 4 , bat when aldusted to an whect at a distance of
 mine the focal lengths of the eyeghass ant th. object-glass.

7 Determine the image of a stratogit line reta ected in a spherical concave merror.

## Buactical Elpartment.

One of the must objectionable practices in recitation is the babit, still tolerated in many schools, of the children thrusting up their hands, beating the air, and snapping the fingers, whenover a special question is put to one of their number. The result is confusion of the mind and intimication of the spirit of all save the few whose power of the rapid phrasiner and ready rectioning brings then to the front in this chapapsort of competitive recitation. Every pupil in a class has a right to a quiot and respectful attention, and ample time and farorable conditions for putting his knowledgo of a subject into suitable language. The great dangor of our graded school-work
that the brilliant group at tho head will do tho work, and tho rank and file be left practically untaught; and the habit of which we spoak is mischicrous in prodacing this result.

## DIRAVING.


(The Fidtor of thas Dapartment will the ghal to answer quostiona for fimormation neliresed to hima lit caru uf the sulluve Juhisal.)

## VI.

In our last paper we discussed the drawing of circlos, bofore giving many examples of patterns composod of these, let us firstdescribe some of the modes of drawits the ellipse and oval, curved figures which aro genorally more artistic in their combinations than the more regular form of the circle. An elluse is a curved figure with two axes, the transverse and conjugate, or majur and minor ; if these cut at right angles we have a right nllipse, (Figs. 1 and 2),

if at any other angle, an obligue ellipso, (fig. 3). The length of the somi-major axis, measuroll from the extromities of the minor will give the foci (A, 13, Fig. 1).

The best practical plan of drawing an ellipse, if of large size, is to tind these foci, then placing two f.ns at the points take a double piece of string equal to twice the length of one of the fois from the other extremity of the major axis, by keeping the string on theye pins, the point of a pencil strotching it will describe an ellipso; thus this tigure call be drawn oven in rongh ground. Anoth plan (Fig 1) is to tike a small slip, of paper, mark tho lengths the semi area from tha wime ent. then keoping these two poonts continually on the axes, its end will mark an ellipse, and a serius oi

points will be found through which the figure can be drawn by hand,-this freehiand work has, in fact, to bo done in overy case. In (Fig. 2), another mode is adopted-through the extremities of the axes draw lines parallel to them, forming a rectangle, then divide the semi-axis, and the sem-side of the rectangle mto tho same number of equal parts, jom tho pouts in the axts with the opposito end of tho undivided axis, and produce theso lines into the upposite quadrant, next join the other end of the undivided axis with the points marked on the side, tho intrisection of these lines will give a series of points in tho ellips.:, through which tho figure masy be draty in Fig. 1. Tho advantage of this method
is that it is equally applicable to an oblique ellipse, as is shewn in Fig. 3. The ohisf dittealty in obtaining a correct drawing of this figure lios ingetting the pupils to recognizo the true shape of the curve; if thoy aro shown one drawn correotly, and better still if they drasw sume curructly themsolves by one of the abuve modes, there will be far less dificulty in obtaining them afterwards by freohand, although in overy caso it is botter to have tho axes drawn, and genorall y if unequal in length, to lightly outline the circumgeribing rectanglo or parallologram. A plan frequently adopted is to describe four ares of circles through the four extromities of the ares, using the semi-major axis to draw those on the semi-minor, and the semi-minor to draw those on the semi-major, then completing the ellipse by a curved line between these circular ares. This plan is evidently false, becauso no purtion of an ellipso can possibly ò a circular are.


An oval is properly made up of a semi-ellipso and a semi-circle. This :s shown in Fig. 2, where, in place of completing the ellipse in the same mode, we have drawn the semi-circlo on the minor axis, thus producirg an oval form.

We have given these figures thus carefully drawn, not that it is neccsary for junior pupils to draw them quite so elaburately, but in order to assist the teacher in getting a correct from by which ho may illustrate the truo shepo required, when, as beiore remarked, the chass will much mure readily comprehend the end in view. Stull wo hare found but little difficulty in getting the pupils to draw them by these methods after a littlo careful explanation, and the correctness of eye attained is well worth the timo spent upon it.

## EXERCISES.

1. Draw two lines at right angles, 3 iuches and $1 \frac{1}{2}$ inches long respectivoly, and bisecting cach other. On these two as axes draw an ellipse.
2. On samo two lines draw an oval, so that the upper end of oval is $1 \frac{1}{2}$ inches in width.
3. Draw an ublique ellipso of stme size.

After these hitvo been drawn thus mechanically, let them be drawn by freehand, using only tho axes as guiding lines.
"What is a lak.e?" asked tho teacher. A bright littlo Irish boy mised his 'mand. "TYoll, Bickuy, what is it 7" "Suro, it's a hole aニ the kit!iv, mum."

## (Fi.ucational dlotes ant glus.

Chesterville Public Sci:ool has a fifth class of ten.
There are 78 teachers in training in Stratford MLodel School.
Mr. A. C. Smith, assistant in MLorrisburghischool, was successful at the first class.ex,manations, having secured grade C .
Dundas Terchurs' Association will meet at Morrisburg on Thursday and Friday, October $29 t h$ and 30 th.

Mr. Butchart has been engaged to take charge of Now Sarum school next yenr.

Mr. Marten, B.A., of Exetor, has been engaged as principai of the Walford schools, at $\$ 600$ a year.

Mr. 1R. Henderson has resigned the principalship of tit Blyth Public School to begin ministental studies at Knox College, f'orontc.
Miss MIanio Baskott, teachor of S. S. No. 21, Scuthwold, has been appointed to succeed Mrs. Wallace, in Fingal, at the beginning of 1886.
Mr. MeCfabe, Iate teacher oit the Separato School, Amherstlurg, has entered the Medical College, Toronto, and Mr. Geo. Famelart has succeeded him.

Mr. Juhn A. McPhail, Jate hoadmaster of the Fanning School, Bedeque, ${ }^{3}$.E.I., is attending MeGill College, Montreal, for a university course.
A local teachers' association has been started at Wellesley village. The teachers in the vicinty are determined to make the oxercises interesting and profitable.

There wili no a convention of the East Victoria teachers held in Lindsay, on Friday and Saturday, 6th and 7th of November, at whech subjects of an instructive nature will be discussed.

AIr. Rogers has resigued the headmastership of Cimbray school. Ho intends to propare for a university degree. Mr. D. McMillan has been engaged as teacher for the ensuing year.

Mr. O. T. Mother, Lym Valley, Oxfurd county, has given up his school to attend the Ingorsoll High School, to atudy for a firstclass cortificate. We hope he will be rowarded with success.

Mr. John Campbell has buen re-engaged as Principal of the Public Shool in the village of Gorrie. Lle has been eight years in that position.

Mr. Chas. $\dot{\operatorname{B}}$. Rao has resigned the principalship of the Cass Bridge school. Mr. Casoy Smith, a newly-fledged Normalite, takes his place.

Mr. Arthur Whitner, a son of W. A. Whitnsy, M. A.headmaster, Irvquuss High Schuul, is succeeded in the Buyne Schuul, Wincliest $r$, $=$ by Miss 1. M. Gardiner.

Messrs. J. G. Harknesq and Jno. Stuart Carstairs were successful at the recent examinations in Toronto University. The former is in his first year, the latter in his second.

Mr. Jameson, brother of Headmaster Jaminson of Morrisburgh High Schuol, has been engaged as a third ass teacher in that institution.

Mr. D. C. Smith has resigued the mastership of 1slay School for the cosuing year. Although offered an increase in salaty he could not be induced to remain, having decided to attend the Collingwood Collegiate Institute, to study fur a higher grade of cortificate.
J. Houston, B.A., formerly teacher in the London Collegiato Institute, and recently Principal of the Cullegiate department, Portage La Prairie, has boen'offered the position of English teacher in the Winnipeg Collegiate Institute.
Mr. Jas. Criswford, formerly teachor in S. S. No. 9, Mosa, has given up charge of lis school and gone to Toronto to study Mediche. The vacancy occasioned by his departuro is filled by Mr. Foy, aforotime head master of athe Glencoe Public Scho 1 .

The Doninion llusiness College, Kingston, of rhich Messrs. Mckny and Wuod are the principals, is meeting with laudatory remarks from the local press, and at large number of students are now in attendance, many of whom arof from the Unied States.

The High School buildings, Lindsay, are reported by the H. S. Inspector as unsuitable. It is quite the that a better building should be orected, worthy of suchas town as Lindsay, for the present structure is more like a barn than at school.

In our last issut it was stated that Mr. Irwin is president of tho Normal Soluoul Lateriary Suctety. This is an error, ats the president is Mr. Joseph A. Snell, let A. man. Mr. Irwa is atteming the Normal Selivol.
In a letter to the Turunto Matel, Dr. Collmge, of Furt Qa'Appello, Assinibutia, says.-" There can bo an doubt as to the mereaso of insanty in the higher cavilized commantes. May nut the overtaxing of the bram in uur schools bo one of the many causes of the inereass in Canada? I an strongly of opinion that it is."

The phome system of teachug reading is used in most of the schouls of stritford. It was metruduced stice last vacation, and ats ad.pption has been most successful. Dr. McLellian, ull visting the Mudel Schuol recently, expressed humself as areatly pleased and surprised at the progress made m reathor by tho ase of the method.
Miss Eisson has been very successful in her kindergarten work on the pramary class mader her charge 1 Stratford . The sugung of motion songs by the little ones before the teachers' convention was hughly creditable, and eltated a cordal vote of chanks from the members.
Mr. R. E. Brown leaves No. $\overline{5}$. Colborne, at the end of this year His place will be taken by Mr. Alex. Watson, of Toronte Normad School. Mr. Brown has been very successful and popular, heing at present in the honnrable position of pressdent of the West Huron 'Teachers' Assocation. We hue not been mformed of his plans tor the future.
Mr. N. Gordon paid an nflicial visit to our school last week. His repurt was satifactory. An interesting feature in his report was the necessuty of providing another teacher It appears the new Act states that for every liity of sehoml age in the section there shail be a tuacher. We cannat see the virtue of this law as the ne ary number of temehers should be in proportion to the average attendance - Shelhurue Frce P'rosx, oret. ITh.
The D.ares Schuol, Sumatrsade, PE I. luses une of its efficient teachers in the person, of Mr. A. A. M.L. Han, whe left recentis fur Mrontreal to enter McGill College as a nedical student. Mr. Mc. Lellan is a y ung ut on of goond hatits, and much respected in the community. His musical ta'ents made him a useful member of suciety, both as leader nf the band and often of concerts gut up by local talent. We wish him suceess in his chosen prufessiun. Piencer.
Elucational matters are reported progressing favorably in Algo ma. District. The r'ablic Schuol Inspector is laburivus and pains. tahing in his daties, but bad ruaids and the large number of schouls in che auspecturate render his tash no sinecurc. SLhuols are nu"
 roamed without restrainit. As the inspectorate is $\mathbf{5 0 0}$ or 600 miles long, teachers cannot rescularly attend the cunventions. They are, horever, carnest in their work, and are producing excellent results.
The following guestions are sugsiested un Dr. MeLecllan's talk on the A B C yf :inithanctic. - What is an "Intuition?" Do children


 methud of seacheng nutatema "On what hnouledge, already manssessum of the chudỉ, do yua base yout first lessun an fractives !-St. Thomas Jountal.
Messrs. Huaghton, Mumsu \& Co., puiblishers, Hoston, Mase, have published a pamphlet un "Method of Teachang Literature." It gues the opmuan of seteral leadmg American teachers on the subject, ind in the circulir which aceompanes the pamphlet the pubishlers say," "It has occurred to us that the roaders of your paper mught b. mitereested ma statement of tha methods discussed in the panyphict Wo hare a fow coppes left which wo shall bo
willur; te send without charge to teachers who aro really meterested in teaclang hiterature." Chis is an opportumty that should not bo neglected.
Mr. Van Slrke. late principal of Ingorsoll Mrodel School. and successor to Mi:. Deacon in the principalship of the Hoodstock Minde! Sishooi, began has dutees here on Mondag, 12lh mast. As Mr. Van Sigie has a must caviable ruputation un lagersolt, Hamuton and elsowicre, wo have no doubt that tho shandard of our Model Schoul, atready hagh, will bo rassed stall hugher under the now manajement. The number of student teachers now mattendanco is twent: Tho folluwing are bioso who composo the clase :

Missus M. Moneur, E. C.mpbull, A. Whitu, M. Mclhersun, J. Rubb, A. Guldes, J. Shurrati. S. Stephunsun, L. Uvurholt, M. Topphag, E. Dabrouñ. i. Pamor, C. Bertrand, N. MLhme. Messm. C. F. Lyster, NV. H. F.alconer, J. Millar, 'T. Heunoy, J. MeLun, J. Resbson. It is ereditable to tho Wundstuci High S: ihoul to mention that fourteen of the above receavel their heterary traming in that institution. Wuodstuck Sentinel Recuew.
In the report of the Esst Mudtlesex 'leashers' Casaention, as given in the L mdon Free I'ress, the Munister of Education in givine an address sand that "Hencefurth there wall bo nu diviston in second class certatieates. The distanctiva will bo made by the stand. meg taken at tro Normals, wath or without honors. The cuarse would also be on the same line as the matriculation in Irts. Mistreculation . th threo tirst-class hunurs will be considured equal to a first-cla 3 srado C certlicate." If more honors, medals, and distunctions ver : given fur practical professonal work, in buth tho Normals and n. the Public Schools, it would, wo think, bo productwe of dutter reselta 3 in intual work of teachay. The best schulars are not always the best teachers.
The Victoria Farder gives a timely hint to tho Managing Comnittee of the East Victuria Teachors Association, as to the propricty of bulletug the visite:s w.iv are to assomble in Lindsay at the appronchng Consontion. It says: "When a conference, synud or assembly is hold in a town, the ministers are billeted with freends of the cause; and we see no reason why our teachers should nut bo su honured. As a rule texchers are pourly paid, and fors of them can afford to pay ralway fare and hotel bills for a couple of days even to attend a convention, therefure nany of them shay away alwgethor. We feel sure there are dozens of honus in Lindsisy where tiso, three, or fuur of the Victoria teachers will bu must heartily welcomed for tha two days. Let the managing committeo imake the anoouncement that thoy want applicatons from the ctit izens, and we are sure a ready respunse will be given by our tow.rspeople. The suggestion is very commendable, and if carried into effect generally, teachers would nut be ungrateful fur the courtesy thas conferred.
The Public School teachers section, at the last provincial assuciat tion, made several sugyestions with respect w the new regulatious, 1 which, comung from such a source, are entitled to spectalatemntion. The detals of any system are best understood by those whe are lengnged in carrynug out its provisions. Among other recommendathens wo nutico the followng as boug in the right direction:- (1) Tlinat a set of drawng inodels bo added to the schoul apparatus. (2) Tasi tho arithmetuc for thrd class bo greatest comnun multuple, least common muluple, reduction, compuoud rules, vulgir fractuons, and mental arthmetce. (3) That the lustury for the fourth class be the leading features of C.andan history amd one peried of EngHehh lustorg, to bo changed from tume to tume. (4) Phat presidng examuers at departucnal exaumations sad inembers of county b.arids of examiners should be selected from teachers actively eagaged in the protesson. (j) That graduates of a uaiversity, in order to qualify as Public School inspectors, shall hatro not less than hev jears experemes in teachius, thece of which shall havo been ubtained in a Public Schuol. -St. Thomas Jownal.
The eenchers' examanations were conctuded on Wednesday. Wo beheve there were trenty-four candidates, about vie-tharil or whom , wrote for second. Complame is made by the treends of the Iroquus ischool here that the mode of conductang tho exammathon, or rather lof pubhishung the result, is unfar to this schoo!. It is sadd all old teachers, no matter where educated, all students from Pablac ISchools m, the county, and from all schools untside of the county, aro required to go to ALorrisburgh for oxammation, white only tho prupils from the Ironuons Hygh Schuol reman here, and that tho publisted hasts of succeasful cilldidates makie it appoar that all this mature and gartered culture is the result of Murrisburgh High Sehool ruark. If this is correct, the Iroinuans schoul is vory heavily
weyghted mdecd. We are all very pronu to judyo by rewulte, and if we see triou or three times the namber ot etaichers credited to Morasburgh that Iroquons can claim, we will be vory likely in chonsugg n schoul to pure th.t one the preferener. - Iropucis Correspundent of the Morrisburgh Contier.
It 15 rumured that the Peterburo' Buard of Elucation has expressly forbidden the absence of there zeachurs wathend tho Convention which wras announced to be huld in l'eterborv' on tho 22nd and 23 rd masts. It may be that the lloard are of upuion that Conventivens should be held in the vacation menths, and, as the Peterboro Examiner puts it, "Not upset theattendatece of over one
thousum school children, as now, and demoralizo to a certain extent tho schoul system." "Tho Convention is, howaver, postpouged until an opportminty arises when at many be held without interfering with the regular attendanco of the schaol children. Tho expression of the Board was darected agninst the absence of teachers from their duties, on frivolous excuses, but it has been interpreted as being levelled aganst the Teachers' Inatitute. Surely the Board did not nean that:
There has boen, and still is, a great deal of discussion going on in Perth, of affars comieceed with the Hegh School. A local correspondent writes a very pointed letter to thu Perth Gonrier, Oct. 10, from which we chp ths extract :-"Has the school been a failuro under the present principal? Let us see. Mr. Rothwell towk
charge of the school passed tho intemmediate, one took a scholhrshing nt Queen's University, and one at Cubourg-total, 28 . In 1883, 45 passed the intermediate, one passed in Queen's, and one in 'woronto Vaiversitytotal, 47 . In 1884, 43 passed the intermednate, and three at Toronto-total, 46. In 188; the intermediate examination was done away with and one for teachers' critificates substituted, thus reducing the numb.r able to pass in this year. Ten passed at this eximmation, four at Turontu, one at Quen's, and one at McGill. This lugh record was attained by the princinal under very discouragug circumstances."
The direct effort to prevent the re-engagement of Mr. Rothwell as Primelpal of the Collegiate Instatute, having either fuiled, or it being attended with difficulties not ensily overcome, those who have control of the Board at present seem to have adopted the expedient of lowering the salaries of the reachers for the ensuing year, under the supposition and hope that two of the staff will decline to re-engazo in surh a contngency. In thns thoy are no doubt righL, It is not likely Mr. Rotheell would accept ary Princepalshin under $\$ 1.200$. for the position, responsibilties and troubles are worth all that. But the Board know well, and the ratepayers also should know and consider st, that the result of thes reduction would bo a lowering of the grade of the Colleginte Institute accordingly, and likely reducing its status to that of an ordinary High School. If the schuol is to be hept up, goud salaries will have to bo paid, and the grado of tachers kept up. It is full tine the people were show ing their wishes and opanuna miure decidedly in theso schuol mat. ters and the "maclunt" management of them. - Perth Courier.

## QUEBEC.

Front vur own Correcspondent.
The educational institutions of the Province opened in Septem ber under favorable circumstances. An unusual number of vur leadug schools changed teachers this year. Among the more inuporiant changes may be noted, the Rev. Mcadanss arrivil at Bishop's College, Lennoxrillo; the Rev. Dr. Kennedy's at Stanstead College, and Mr. Bannister's at St. Francis College, Richmond. The collapse of the two denominaticnal Ladies' Colleges of the Provance is a significant fact in the history of Protestant edncation of tho Province. Nutnathitadin: a special Government grant of three hundred dullars to cach of these institutions, Compton College has been clowed fur as eara, and a recent eifort to re onpen it has proved uasuccessiul. Dunham Colleye, which has been fight. mig for an existence fur the past tiry years, has bren compelled to
close its dours, with a larye debt upuu the close tts dours, with a large debt upout the late Management. It is impossible for these Prorestant Colleges for young romen to compete with the numerous excellent Contents of tho Province. Theso mestututions furnish buard and tuition at such low mates that Protestant parents sarallow their principles and place their daughters there for their education, rather than pas the higher rates which
Pretestunt Protestant institutions are obliged to charye.

Iichupous Instruction.-The question of religious instruction in the Puble Schuols has been recerting cunsiderable attention of late. Religuws natruction as obligatury in all the Public Schools of the Provimes ; matepayers may refuse to pay their taxes if religious instruction is nut given. The selection of text-books on this subject rests in the hands of the Priast or officiating minister. This provision was mado with special referenco to the Roman Catholic pupulation, whero it works sanisfacturi!y, but in districts where seteral Protestant dencminatio ns are represented, it is not easy to determino who is to make choice of text-bouks on religion and morals for the Protestint pupils. It is now proposed to give the sclection of text-buoks on religion and mamats to tho Protestant Comnittec of the Council of Public Inst: uction so far as Frotestant schools aro concerned.

Montreal. - The small-pox epidemic has seriously interferod with the educationaltiwork of the city. The city selhools have about ono half of their usual attendance ; but tho High Schools and the University have their usual quota of pupils. The accountant of the Protestant Board of School Commissioners has beon unfortunate in his funds. On three different occasions large sums of money have disappeared whilo under his care, and no really satisfactoryexplanation has been given. The recent loss of $\$ 2000$ has induced tho Commissioners to seek the services of another accountant.
MeGill Unirersity has improved its accommodation for students very greatly during the Summer holidays. The Arts and Medical buidduss hate been thoronghly renovated and inproved and farnishen with the best modern apphances. A dumer and public meeting was held by the Medical liaculty in honor of ther entranco upion their new and spacious class rooms.
The Fruser Institute. - After years of litigation, the funds which wero left to establish a public library have been made available for the citizens of Montreal. A very central site has been secured in the old High School.building, and the opaning was made tho occasion of a large public gathering.
The French Secrefary of the Department of Public Instruction.The appointment of a successor to tho late Oscar Dum, is the chicf sulject of conversation in Quebec circles at present. The question is an interesting one : Thereare two secretaries in the Departuent, ono French nud one English. They are appointed by the Guvernment, upon the recommendation of the Committes of the Council of Public Instrustion.
In Septemiler, after a severe contest between the Castors and the other members, the Roman Catholic Conmittee recommended M. Paul de Cazes to the Guvernment for appointment as Fronch Secretary. M. du Cazes is a Clerk in the Department, having a thorvugh knowledge of the business of the Departnent-and:every way a desirable man for the post; but he is a brother-inlaw of the Hun. Mr. Mercier, the leader of the opposition. The guestion upun everyon's lips is "Will the Government appoint M. de Cazes?"

The Culunial and Indian Exhibition. - The Lieutenant-Governor has apponteda Commission, consistiag of the Hun Gedeon Ouimet. Rev. Dr. Bégin, Rev. Elsun, J. Rexford and M. Paul do Cazes, to prepare an Educational Exhibit from the Province of Quebec, for the London Exh:bition. The Coinnission has issughecirculars to the various educational institutions and bodies innughout tho Province, giving information concerning the preparation of materials fur the Exhibition, and calling upon all persons interested in the wurh of Education to couperate with the Commission in preparing an exhibit that shall worthily represent the educational system of the Province.

## (Qucstion 코atucr.

## QIPESTION:

Dear Sit, - I wish to submit the fulluming for the consideration of gour readers:-
Accurding to the rule found in Masnn's Grammar (neu edition) anent the use of the comma, we should punctuate as follows."Puetry, music and paisting are fine arts." Professor Nichol, in his Eaglish Compusition, ch. ii., 4 b , gives sanction to this. Dr. Davies, in his "blue" buok, that was the terror of our youthful dass, gives it thus - "Pootry, music, and painting, are fine arts." Dr. Reid, in his "Composition," § 1, I., gives sentences similiarly punctuated. Then we have as as medium between these two methods, $\lambda^{2}$ ron (old edition), $\$ 483.5$, where ho gives us, "Puctry, music, and painting nre fine arse."

Now, what are we to do when doctors disagree to so great :s ertent? Method No. 3, as far as I can see, is the one must in vogue in the new Ontario reader. I think it is followed in every series of words.
I an very anxious to hear your own opinion and that of any of your readers.

Jno. Steart Caristaris.
The following points hare cono up in the elase-rom, your correspundeut in some of the cases has not a great deal of cuntidenco in the meaniug ho attaches, therefore he would desiro the editur's opinion.
Ancient Mariner:-
"With far heard whisper, o'er the sca,
Oif shut the spectre bark. "-Part 111., 59-60.

Who whispered? Why far-hoard? Explain fully by a paraphrase.
"From the sails the dew did driu." - P. ort III., (ici.
Why was thero so much duw! Why wore they parched with thirst when there was so much dew?
"I looked upon the rotting sea
.I louked upon the rotting deck."-BPart IV., 17-19.
Why is the sea called rottine? Why is the deck called rotting, remembering that in the 32 nd line it is said, "nor rot nor reek did they'? Is the sea called rotting because * "the corruption of death was begun to ferment with new forms of life? While tho great body as a whole was torpid and passive, every separate member began to feel with a sense, and to muve with an energy all its own."
" Her benms bemocked the saltry main."- Part IV., 44.
What is the meanug of beanelied ! ats subject ? heams or man! ! With either construction, explan the exat meaning.
"An orphan's curse would ?ras to hell
A spirit from on lagh."-Part IV., 34-35.
Does the Ancient Mariner utam to shy that he is under an orghan's curse \& Par.phrase these and the two succeding lines.
J. S. C.

Please furnish arithmetical solutions for the follownes. -1 . In phat time can, a columa of men ulear a detile 3 moles m length, supposing this column to consist of 10 batt:alions, each extending over $1 \% 6$ yards, and that the rate of marching over the last mile is reduced on accuant of the dittizulty of the roud, from $7 \bar{T}$ paces of $2 \underline{f}$ fect each, to 40 paces of 27 fect each per minate?
(Matr. Victua Col., Sept. 1881.)
2. I mres: $\$ 5,592$ in the new three per conts at 875 , and if I sell out at the cad of 3 months at 30 , after having receuved one-half year's dividend, what sum, including interest, sh:all I have grained ; the brokerage being $2 \overline{s i s}$. is it. per cent. on the mestument as woll is on the rate of stoch, and the income tax on the dividend being $4 d$. in the $£$ ?
(Ibid.)
3. What is the cust price of eloth per yard when 6 yards more for $\$ 1.0$. luwers the prize en cents per yard?
4. How long will it be before $\$ 2.509$ put out at Compound Inter. est at $10 \%$ per annum will obtain to $\$ 1,72 \overline{6} .58_{j}^{\circ}$ as interest?
5. What helps to form a complete l'redicate in "Whero are they"?

> ASSWek.

In answer to Student in No. 37.
Solve. $\quad x^{2}+y=7$ (1).

$$
x+y=11 \text { (2). }
$$

First Solution. lisy adding (1) and (2) $x^{2}+s+y^{2}+y=1$ y

$$
\begin{aligned}
& x^{2}+5+1+y^{2}+y+1=15-1+1 \\
& \left(x+\frac{1}{2}\right)^{2}+\left(y+\frac{1}{2}\right)^{2}=(2)+(2)
\end{aligned}
$$

Each side heing the sum of two squares it miy rembus to find
 smaller number tham the sequare of $y$ aded to $x$. It is evident therefore that $x<y$, or thus

| Hence | $\begin{aligned} & x^{2}+y<y^{2}+x \\ & \therefore x^{2}+y-(x+y)<y^{2}-x-(x+y) \\ & \therefore x^{2}-x<y^{2}-y \quad \therefore x<y \\ & \left(x+\frac{1}{2}=(\hat{0})^{2} \quad x=i\right. \\ & \left(y+\frac{1}{2}\right)^{2}=(\hat{0})^{2} \quad y=3 . \end{aligned}$ |
| :---: | :---: |
| Second Solution. | $\begin{aligned} & x=11-y^{2} \\ & x^{2}=121-22 y^{2}+y^{2} \end{aligned}$ |
| Sulstituting this in the first Equation we net$y^{-}-2 y^{2}+y+114=0$ |  |
| $y^{3}(y-3) \dot{(y-2}$ | $\begin{aligned} & \left.53 y^{2}(y-3)-13 y(y-3)-3 x, y-3\right)=0 \\ & \left.3 x^{\prime} y^{2}+3 y^{2}-13 y-38\right)=0 \end{aligned}$ |
| Hence, | $-3=0$; $y=3$, ic. |
| Thurd Solution. | $\begin{aligned} & x^{2}+y=7 \text { or } y-3=4-\kappa^{7} \\ & \left.y^{2}+x=11 \text {, or } y^{2}-9=2-r \text { ( } 1 \text { ( }\right) \end{aligned}$ |

That is to the unkinom syuares are attached the largest spuares found in the unknown quantitics.

$$
\begin{aligned}
& \left.4-r^{2}=(-+r)^{\prime 2}-x\right) \text {; lence from (1) we have } \\
& \frac{y-3}{\because \div \frac{1}{9}=2-r=y^{2}-9}
\end{aligned}
$$

Fourth Solation.

$$
x+y=7
$$

$$
x+y^{2}=2(2)
$$

Subtractin; ;1) from (2) we get $x+y^{2}-x^{2}-y=4$, or $(x-y)$ -$\left(x^{2}-!^{2}\right)=4$, or $(x-!)(1-x-!!)=4$.
Nuw since (vide ist Shation)s $\dot{-}, x-x$ is uegative, therefore 4 is
 lee $x, y=1, x$ and we det $x=\frac{1}{2}$. Which nalue does not s.atisfy the equations. 4 unist be the promitur of two negativo megual factors ; -1 a ad -4 are the oaly two steh integraliatotors found in 4.

$$
\therefore(r-4)(1-x-y)=-1 \times-4
$$

Then by trial we find $x-: 1=-1 ; 1-x-y=-4$.
From wheh $\quad x=3, y=2$.
The threo first solations are from Gage's Schoul Examinor, I thinh, the lis: is my un.a, midentisidntly I hate sume disubt in oftering it.
J. S. C.

Nort.--Gaertes froan "E.aculsior," "Sulscriber," C. S. E., G. H., J. D. B., mid uthurs me cruwded out thes weeh. They will appear in next issue.
Oar frionds are mivited to send answers to questions that are pub-
lished in this department. Dsing so will improve themselves and be a bencfit to others. Theyare luft unanswered by the Editor for that purpuse.

## Titctav! Ghit-Clat.

Gun of Co., Bostom, will publish about Decuaber 1st, a translation of Hermann Lotri's "Outlines of Psycholoug." The translittion is by l'rof. Ludd, of Yale. This volumo will be fourth in tho series, the "Melaphysic," "Palusuphy oi Religion," and "Practical Philosophy," having already appeared.

The North imerican liccice is following the sensible example of The centory, in falling back so is to make the issue correspond with the inite. The December number is to be issued on the $2 \overline{5}$ th of November, amd henceforward tho magazine will appear on tho first disy of the month of which it bears date.

The Lifo and Latters of John Brown, Liberator of Kansas and Martyr of Virginia, is a large volume of more than 600 puges, editell by F. B. Suborn, and published by the Roberts Brothers, Buston. Wwenty six years agn Joln IBrown was executedas a felon at Chatlestown, Virginia.

The Americ.an Tract Suciety has recently published an interesting book on hone life in Clima.
It is said that Mr. F. T. Palgrave will be the candidate for the professurship of poetry at Oxford, formerly held by Matthew Arnold and D'rojessor Sharp.

Mathew Arunda's "Discourses in America," recently published by Mumillatn di Co., cunsist of his lectures on "Numbers," on "Literature and Science," and on "Emerson." The fitst and last were written specially for America.
Edward E:phlestom is with his family at a little town in Canton Vand, Swicari:nd.

Contrury to previous rumors, the Athemeron states, that Lond Tennysun s fortheoming volune will comsist almust entirely of new poems, sume of them of considerable length.

It is reported that Mr. Howells, in addition to placing all his new writings at the disposal of the H uphers, is berinning with tho January number, to cdit an Editor's Study, or Literary Cciluma, fur Harpers' Magarine.
"The Future of thu Strugele for India," is the title of a book which has been puhlished in Paris. The author is Prof. Armenius Vambery, an authority on Asian que tions.

The biournphy of Louis Agassiz, which has just appeared, shows that the grest Viatiomalist wiss to the ent of his life a steadfast oppronent of the theory of evolution. His belief in the Creator was, his biography says, the keyuote of his study of nature.

$$
\begin{aligned}
& \text { or } y^{3}-9=\frac{y}{2+x}-\frac{31}{2-i \cdot x} \\
& \therefore y^{2}-\frac{y}{2+x:}=9-\frac{3}{2+n} \text { Solvince ats a quad. } \\
& y^{2}-\frac{1}{2+1} \cdot y+\left\{\frac{1}{9(2+x)}\right\}^{z}=0-\frac{3}{2+3}+\frac{1}{4(2+x)^{2}} \\
& y-\frac{1}{2(2+\ddots)}=3-\frac{1}{22+x} \therefore!=3, \quad\{
\end{aligned}
$$

