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# The Canada School Journal. AND WEEKLY REVIEW. 

Vol. X.

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An Ellucational Journal devoted to the advancement of Literature, Science, and the teaching profession in Canada.

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

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The latest advices, as we are preparing for press, are tinat a large force of Servans, with King Milan at their head, have crossed the Bulgarian frontier from Nissa, and that a detachment of the Turkish army is ordered to march in the direction of Nissa. Thus a conflict is imminent, and in affairs connected with the Eastern question, the beginnin; of strife is like tapping the enbankment of a reservoir. The ostensible ground of Servia's movement is alleged inroads into her territory by Bul. garian brigands. The real motive, no doubt, is the desire to turn the Roumelian revolution to some prartical account for Servia. It may be that the efforts of the diplomatists will yet be successful in averting a struggle, but the war cloud is omin. ously dark just now. The situation is complicated by the uncertainty in regard to the designs and intentions of the great powers most intimately related to the disturbed principalities. No one can tell just what course even Turkey will take, much less Austria and Russia.

Most of those who enjoy the blessings of freedom will sympathise with the impulse which has brought about the Roume-
lian movement. So spontancous a transition on the part of a whole people has few parallels in history. The Roumelians seen to have been literally all of one mind, and the transfer of authority was effected without a blow. Tha fact utself is the best justification of the change. On the other hand it would seem that Turkey really loses nothing, save perhaps a little prestige. The eastern part of Bulgaria, under the name of Roumelia, was placed nominally under Turkish suzerainty by the 'Ireaty of Berlin, but the arrangement seems to have carried little or no practical supremacy with it. The Sultan of Turkey, we are told, could not appoint a Mussulman Governor of Eastern Roumelia, nor could he levy tribute or recruit his army in that province. If, as seems probable, united Bulgaria is willing still to recognize the nominal suzerainty of the Sultan, not even prestige need be lost. Still, in spite of great national decadence, the Moslem spirit is intensely haughty and warlike, and it is quite possible that the Porte may choose to risk the issues of a great conflict rather than meekly submit to have even her nominal authority set at naught.

The struggle between the civil authorities and Mormonism is stall being carried on vigorously in Utah. One of the most important trals jet held was that which resulted in the sentencing of Bishop Clawson to a term of imprisonment for polygamy. The Bishop eloquentiy pleaded that after having lived in his present marriage relations for over thirty years he should no be now asked to renounce those ties which he believed, and still believes, to be right and to inure to his benefit in the life to come. But the court was inexorable, Judge Zanr replying that polygamy was as unlawful thirty years ago, when the Bishop entered into those polygamous relations, as it is now, and that Bishop Clawson, like every other citizen, was bound to know the law and respect it. Meanwhile it is said that the $i_{\text {mportation }}$ of Morman converts from Europe is being vigorously carried on, and that the number thus brought in tar exceeds the number of converts from Mormonism by all the Protestant missions put :ogether.

## Thi Sclool.

It was once said by a great and good man. "He that makes a little chatd happter for a single hour is a co-worker with God." What abundant opportunties are enjoyed by the public school teacher of earning this great distinction !

The West Bruce 'reachers' Association holds its Autumn meetung in Kincardine on the 22nd and 23rd inst. Durhom 'leachers' Association holds its half-yearly meeting at Port IIope on the 23 rd and $24^{\text {th }}$ inst., and that of North York at Newmarket on the 29 th and 30 th inst. All publish full programmes.
"Of all motives," says Dr. Lyman Abbott, in a recent number of the Christian Union," fear is the lowest, and of all forms of fear, fear of physical pain is the lowest. Of all motives, fear of bodily suffering is the least efficacious in changing the heart or affecting the character." These words, if true, as most persons will readily admit, are of special interest to teachers. We commend them to the study of those teachers who are perpetually finging threats across the school-room, and who enforce every order and regulation at the point of the ferule. He can scarcely be a good character-builder who appeals habitually to the lowest and least efficacious of motives.
"Blundering in the right direction is infinitely better than persistently going in the wrong direction," So says the Practical Teacher in answer to the suggestion that fearful blundering would be a result of enfranchising the teachers who are now, in so many cases, playing the part of automata in the Government machine shops. Col. Parker is undoubtedly right. Never will our modern schools approzch any high educational ideal until each school, or section of a school, comes to have a living individuality imparted to it by the presence and power of one cultivated and earnest mind, free to do its own work in its own way.

A writer in the Illinois Sihool Journal is in tavor of the old method of requiring chiddren to learn by rote rules of Syntax and similar exercises to be understood, if ever, at some future day. We had thought such methods dead on this continent and buried beyond hope of resurrection. The writer asks how many children comprehend the $23^{\text {rd }}$ Psalm when committing it to memory. We should say that whoever compels a child to memorize that or any other portion of Scripture before he is able to comprehend its meaning, is incurring a heavy responsibility. He is associating the sacred book in the child's mind with the dreary task-work, and is in danger of thus creating a distaste and prejudice which may follow the pupil through life. But he must be a very young or very dull child who cannot, with the aid of suitable explanations, understand the meaning of that simple and subline song. Children who are taught to look for the meaning of what they read will generally be found able to understand much more than teachers of the ilk of the correcpondent referred to, suppose.

The tcacher who compels a child to commit to memory a fanng. If words whose meaning it canrot grasp, sins agamst the 10 d $n$ at hat hree was: He depmives at of the legutiunde bencfis of suedy a mertal apansion, for the mere suctighening oi the verbal nemory can seareeiy be considered an enlagement of mind. He encumrages it in the formation of a vicieus meital habt, whose pernicicus fffects will be felt in atter lite- the habit of taking in a string of words without thinking of the ideas the $y$ represent. And, worst of all, he robs it of the pleasure which Nature bestows as the high reward of all healthtul mental exerion,-the delight which attendṣ the consciuns exe:cise of season, jedgment and all the higher facultes, and whin h is never keener thim in the school days. It is true that the meanigig of some sentence or formula, wh ch may
have lain for years as dry rubbish in the brain, may flash upon one in after years like a revelation. But the revelation will usually be accompanied with a feeling akin to indignation against the teacher who could permit the germ of a useful thought to be put into the mind encased in a crust of dry words, which is dissolved only after so many long years.

The Wisconsin Journal of Education for October contains an interesting article by 'A. F. North unon Indian Education in Wisconsin. There have, it seems, been Gopernment schools in Kishena, the headquarters of the reservation of the Menominee, the Stockbridge and Munsee, and the Oneida Indians, who number altogether over 3,000 , for twenty or thirty years. How hittle these schools have accomplished is apparent from the fact that not more than twenty of those who receive supplies from Government agents can sign their names to the receipts. A new era seems now to be dawning. Within the past two years the Government has erected a very fine school building. having the capacity for boarding and instructing 120 scholars. The dimensions are as follows:-Main building, $108 \mathrm{ft} \times 40$, with a wing $45 \times 25$, both two stories in height, with capacious attics. There are, at the present time, about eighty scholars in attendance, with the prospect of the whole being tully occupied within a week or two. The intention of the Government is to make these industrial schools, in the best sense of the word, and to have every child there so master the English language as to be able to think in it. There is also in the same place another school under the care of the Franciscan Brothers and the Sisters after the orcer of St. Joeph. The buildings for the male and female departments of this school will together accommpdate about 120 pupils. There were at the time the article was written about 80 occupants, with the prospect of full buildings in a very short time. In addition to the arrangements for industrial training, these institutions have a beautiful flower garden attached. The foregoing is one of maty indications that better days are in store for the poor Indian.

## THE TRUE END OF PUBLIC SCHOOL EDUCATION.

The London School Guardian of Sept. 25th, in its Notes of the Week, gives prominence to this intrepid statensent: "Nowhere, on the Continent, or in the Queen's dominions, are the schools so inefficient, so badly attended, and so unsatisfactory in all their results as in the American Union." This rather starting opinion is supposed to find confirmation in the recent jether of an occasional correspondent of the Times, who declares that the one utiversal but ignoble result is that the child emerying from the American Common School has only one idea before him,-" How can I make money ?"
"In the Common School education of the States there is, in general, notling taught that is not directly, and to the commonest puce pitin, avalable in making money. And this central idea rembins, to a greater exicnt than in any other of the educating countries, the motive of the higher education-when there is any bighs education. The farm-boy goes to the District School to learn to write, cipher, and spell correctly, and learns geography as a useful branch of study because he does not alwajs mean to remain on a farm. He louks forwaid to a translation to city lite and a money-making business."

Nor is this brave correspondent without a theory to explain this deplorable lowness of aim in the Schools of the Great Republic. It is the immediate consequence of the fact that the masses control their own education-i.e., the.blind lead the blind.

Were we controversially disposed we might feel tempted to say a good many things by way of rejoinder to these and other remarkable assertons of the Times correspondent. We might refer to Canon Farrar's address at the opening of the Johns Hopkins' University, a sentence or two of which we quoted last week, to show the blessings resulting a few years ago to the youth of England, under a school system in which we may fairly infer the blind were not led by the blind, but by the men of vision. We might ask whether it may not be as high an end, viewed from the standpoint of a sound morality, to teach the children of the masses to become wide-awake, independent citizens, as to use the public means to impress upon them the duty of being content with the state in which they were born, aiming at nothing better than toilsome, if not grovelling poverty, and yiulding due reverence to their betters? Or we might boldly challenge both the Guardian and Times' writers to the proof, meeting their sweeping assertions by counter-assertions to the effect that for all the higher purposes of school educacation the American Public Schools are at least equal in efficiency to those of England. But both these writers are so evidently blinded themselves, either by ignorance of the real character and work of the American Public School, or by prejudice, that comment seems useless. In the United States there are to be found, no doubt, many varieties of schools, and wonderful degrees of badness as well as of excellence. This is inevitable under the free, lexible .system which prevails. But that the country is blessed with a goodly proportion of teachers of the young who realize fully the great responsibilities and possibilities of their noble calling, and are daily doing their high duties as in the Master's eye, is beyond question. The insinuation conveyed by the Times' writer in the clause, "when there is any higher education," is on a par with the other contents of his article. We doubt if there is any country in the world, Germany perhaps excepted, where a larger percentage of the Public School pupils proceed to higher Schools and Colleges, than in the States, and we feel quite sure there is none where higher ideals are set before those pursuing Collegiate courses, than in a great many of both the State supported and the voluntary Colleges which abound all over the Union.
But what is the true end of Public School instruction? This large and ever-recurring question is directly raised by the tenor of the Guardian and Times' articles. It would be well if every teacher in Canada should put the question to himself and keep pressing it until he found a clear and satisfactory answer. No doubt there is too much truth undelying the gross exaggerations of the Times' correspondent. But what should the farm boy be taught if not to write, cipher and spell correctly? These are bread-and-butter subjects of course-but, with reading, they constitute the condition and instrument of all culture of whatever kind. Consequently the fact that the pupil's time during
the first few years of his school life is mainly occupied with these is no evidence either that he is, or is not, being trained in all the "elements that produce greatness of minds, high sense of duty, and continuous progress in culture and religion."

Those are certainiy the all-important results to be wrought out. But success in attaining thein depends, we fancy, far more upon the how than the uhlat of the teaching. A teacher who has moral power and spirtual insight, will unconsciously infuse these subtle influences into every lesson. A vittue will perpetually go out of him. At every point of contact with the child's nature his own high aims and motives will permeate all the daily routine. Whether the average British teacher has more of this moral magnetism than the average American may well be doubted. But, and this is the point we wish to make, and to leave with every reader, it is a thing which can be cultivated, by cultivating the high aims and aspirations from which it springs. It would be well if every Canadian teacher could te brought to put to himself daily the question, What is the great end I should keep constantly before me in my school work?

## Spcial.

## ELEMENTARY CHEMISTRY.

## CHAPTER IV.

section in.

## CARBON.

Symbol C. Atomic Weight, 12 (11.97, Molecular Unknown.
94. Carbon exists in three allotropic states:-1. Charcoal, of which there are several varieties; 2. Guaphite; 3. The Diamond. Def.-When an elementary body is capable of making its appearance in the form of two or more bodies having different. properties, these are said to be allotropic modifications of the element.

> 1. chahconl preparation.

## 95. From Wood.

Exp. 1. -Tight a thin splint of wood and plunge it into a test-tube, held with its mouth downwards. The tube prevents the air from getting freely to the wood, so cansing a smothered burning and thus a slender piece of charcoal is produced.
Wood consists substantially of carbon, hydrogen and oxygen. The heat drives the hydrogen and oxygen off in the form of water, leaving the carbon behind.
96. Preparation on the large scale.-Charcoal is prepared by covering a pile of wood with earth or sods, in which openings are made at the top and botton to admit a swall amount of air. The wood is then set on fire, and some of it slowly burns. The heat from the burning wood is used to drive off the hydrogen and oxygen from the rest of the logs, caro being taken that sufficient heat is not produced to canse the whole mass of wood to burn. Since carbon is, under all circunstances, infusible and non-volatile, the charcoal retains the
form of the wood but the halk has been much reduced, and its weight a loes not execel one-fouth the weight of the wood.

## 97. From Vegetable Substances.

Exp. 2.-lialic a small piece of writing paper crush it into a lump, and put it into a uarrow test-tube. Take a clip of bhut and a slip of redened litmus paper slightly moiston them ami ix. ate the paper by holdiug the emi of the tube in the lamp. As soon as a white smoke appeats in the tube, dip into it the ble test-paper. After a moment take ont the hate paper and pat in the red one. Observe (l) that the white paper heated in the tube is convertel into a black substame, preserving the same size and shape; (2) that a brown oily liguii is deposited on the sides of the tube; (3) that the blue test-paper turns red, and the red test-paper remains unchanged in the volatile matter given off during the ignition; (4) that the back substance in the tube, when placed on phatinum fonl and strongly heated, burns away without fiame, leavme nothing but a very small quantity of incombustible white ash. The back substance is charcual.

From these experiments we infer (1) That veprtalle silustanoes contain chatreocel. (2) That the? crentain the choments af a volatile acid, which ariel they protuce when suljoctol to er red heat in close resiels.

## 98. From Animal Substances.

Exp. 3.-Take a hit of woillen cluth, put it into a small test-tube. P'repare moistened slips of test-papers as in the preceding experiments. Hold the tube in the thame of the spiritfamp, and put inte it first the blue paper and then the ted one. Ohserve (l) that the woolen cloth is converted into a black substance hke charcoal; ( 2 ) that a brown oily liquid is depmes:ted on the sides of the tulse; (3) that the blue paper remans unaltered, and the red paper turns hae: (-1) that the black substance talien from the tube, placed on platmum foil, and held in the flame of the spi:it-lamp, barns away wathont flame, learing only a very suall quantity of whte ash.

From these experiments we mfer, (1) That animal borlies containt charwal. (2) That they contain the clements of a volatile alliali, which alliali thry produre when suljected to a red heat in a cluse vessel.

## proderties of charcoat.

## 99. Absorptive power.

Exp. 4.-lake a marow-necked bottle and fit it with a good sound cork, previously steeped in parafline. Fill the bottle with ammonia gas. This may be done cither by putting a feve drops of :ummonia into the bottle ard shaking it well, or by placing it, month downwards for a few mintes, over the mouth of a bottle containing strong ammonia. Place in it a few pieces of newly-burned charcoal and cork it up. After a few hours withdraw the cork, and it will be foum that there is no odor remaining; the whole of the ammonia has been absorbed.

This power of absorbing gases depends upon the fact that all gases condense in greater or less degree on the surface of solid bodies with which they come in contact, and as charconl is very porwus, or possesses a large surface to a given mass, its absorbent power is proportionately great.

## 100. Decolorizing Power.

Exp. 5.- X'ako threo fumblors and phaee in carh a tablesponful of hone-hack. Into the first tumber put some blue or reddened litmus solution, into the second a solation of logwond or any other vegetable coluring matter, into the thind a solution of potasiam permanganate. Stir the solutions woll with a ghass rol. Full three pieces of tiltering or white blotting paper, so as to fit into a fumbel. Pour the contents of each tumbler on a filter; observe that the filtrate is in each instance colorless or nearly so. In case the first portions of the filtate happens to come through colorel, they may bo poured back upon the filter and allowed to pass again through the charcoas.

In the purification of brown sugar the coloring matters are removed in at mamer similar to the foregoing, the colored syrup being filtered throush layers of bone-black.

Beer or ale, thus treated, lose not only their color but their hittor tiste. A solution of quinine sulphate filtered thus throligh bone black, is deprived of its bitter taste.

## 101. Dedorizing Power.

Exp. 6.-Put a few drops of a sulphuretted hydrogen solution juto a test-tube, add a little animal charcoal and shake the mixture thoroughly for half a minute: tho liquid has now lost all the offensive smell of the gas which has been absorbed by the charcoal.

Charenal not only absorbe umpleasant efluvin evolved in the process of decay and putrefaction, but has the power, especially in contact with air, of oxidizing ant destroying them. Whis propenty is retained by charcoal for a lung time, and when lost, it may be renewed by ignition. Hence charcoal filters are largely used for preventing foul sewer gases from polluting the air of houses, and charcoal respinators have been used to prevent the ingress of deleterious gases into the lungs. 'Irays filled with heated wood chatcoal, placed ininfected apartments have proved very effective in absorling noxions emanations. Charcoal filters are also largely employed for filtering water for drinking purposes. In its passage through the charcoal the water has mot only the organic and soluble coloring matters removed but also undergoes atration.
(To be Continuci.)

## ENTRANCE LITERATURE.

Preparti sifctalli for tifi echool. Joulisai.
BOADICEA.
Pagc 85-. ith Book, Ontario Readers.
I.-General Notes.-A short account of the author of this ode is given in the lieader. For a fuller account see some work on English Literature. It will be sufficient to add here that Cowpor was educated at Westminster School. At eighteen ho ontered an attorney's office, and was called to the bar in 170゙t. He did not practise his profession, but spent his time, when in possession of his faculties, in sauntering with his dog along the reedy banks of the placid Ouse, or in writing alittlo for the serials of the day. Ho was, during middle life, much troubled with a mental disense, a sort of religious molancholy, and it was not till he was fifty years of age that he aat down seriousls to write a book of poens. Tho first
volumo was issued in 1782. Ilis principal work, "गhe 'Lask," in 1785. Cowper, in addition to his fame as a poct, is atid to havo been the best of English lutter-writers. Ho died in 1800, having during the last years of his lite, received a pension of $£ 300$ a year.

Hiwe a map of the Eistern homisphere before tho class while studying this pocm. Irice on it the possessiont; of the Romatn Empire at that time, about A.D. 60, noting carefully the position of Gaul, now Franco, with respoct to Britain- how separated, and at what distance. Give ashort account of the religions of the Romans, the Ganls, and the Britons. State why the Romans visited Britain, in what stato they found tho country, to what oxtent thoy improved it, and why thoy left it.

Stanzas 1,10 and 11 give a vivid picture of the wrongs the l3ritish queen, Boadicea, suffered at the hands of her oppressors, her superstitious belief in the wisdom and power of her contatry's gods and her bold, dashing valor in war.

Stanzas 2 and 9 represent the aged Druid chief, with locks long since silvered, sitting under the scared oak, doubtless with a mistle toe growing on it, and receiving his inspiration chielly from the sacredness of his surroundings, pouring forth burning words of rago against the enemies of his country, the Romans.

The other stamas are the prophetic words of the Sage, which are rendered doubly solerin and awful, being accompanied by the lyre, a kind of harp which was the peculiar instrument of Apollo, the presiding deity of archery, prophecy and music.

British Warrior-quech.-Buddug, whose name was improved by the Ronans into lBoadicea (Boadice-a), was the widow of the king of the Norfolk and Suffolk people. She is generally mentioned as the warrior-queen of the Iceni, a tribo inhabiting the Eastern coast of Britain in the time of the Romans. Her husband at his death, in the hope of saving his kingdom from oppression, left his ivealth to the Roman Emperor, Nero, and his own two daughters. The Roman soldiery, taking advantage of the defenceless condition of tho country, plundered it unscrupulously. Boadicea was scourged, that is whipped with rods, by order of Catus, a Roman officor, hor two daughters shamefully insulted in her presence, and the noblest of the Iceni sold as slaves.
Indignant mien.-Gildas, who wrote a histry of those times, calls her "a deceitfu! lioness," and her people "crafty foxes," but he no doubt wrote to please the Romans. She was evidertly a great heroine, who boing publicly whipped with tho Roman rods, resent. ed the wrong and the cruelty with all the indignation of her fiery nature.
Country's gods.-The Druids. The Britons had a strango and terrible religion, called the "Religion of the Druids." It seems to have been brought over in very early times, from France, then called Gaul, and t $\delta$ havo had mixed up with it the worship of the serpent, the sun, the moon, the running stream, and many of the gods and goddesses of surrounding countries.
Most of the services were kopt secrot by the Druids, who pretended to be enchanters, and who carried magicians' wands, and wore, each of them, about his neck, what he told the ignorant people was a serpent's egrg in a golden case. They sacrificed human victims, and on particular occasions burned alive, in immenso wickor cages, a number of men and animals together. They met together in dark woods, called sacred groves, to iustruct young men in their mystorious art and for meditation.
Sprcading oak:-The oak was held in great reverence by the l3ritons, and especially ono with the sacred mistletoo growing on it. Whenever the mistletoo was found on an oak tree there was a grand ceremony. A solemn procession was formed, two whito bulls were sacrificed, and the aacred plant cut with a knife of gold.

Sul the Druid. -The hoary chiof, is here represented as being in his most sacred retreat, under the sprending oak.
If our uged eyes necep, dec.-An admission that grave wrongs existed amony his people, which oven the Druids wero unable to remove.

Resentment ties all the terrors.-Porhaps tho resentinent was on the part of the quen or the pooplo in not offering freely eluough, oven their sons and daughters, to the grods. Or it may be that tho ruge and grief in his own breast, unfitted him to have power with the gods.
.'Rome shell perish.-A threat, hence shall. instead of will. Tho Western Roman Empire fell in $47 \mathbf{6}$, and the Eastern more than a thousand years later.

Deep in ruin as in guile. The guilt was matchless, hence the ruin is to bo renequalled.

Far renowned. -The whole of tho then knomn world, except the Pathiar Empire, was embraced within the Roman dominions.

Tramples on a thousand states. -Rules them without regard to justice. At this time Romo had subdued all the countries around the Mediterrancan Sea.

Kiss the ground.- Bo humbled.
The Goul is at the gate. - No doubt Alaric is meant. He vias a Visigoth of noble race and Christian faith, and was the first to lead a hostile force into kome, 410. The Visigothic kingiom, it one time embraced the whole of Spain, and all of Gaul south of the Loire and west of the Rhone. The present tense is used hore with a future meaniug.

Other Romans shall arise.-Probably the Itali:ns, who excel in music, scuipture, $\mathbb{k c}$.
Sounds not arms.-Music and the fine arts, not military glory. Progeny that springs. - Ships, built of the English oak.
Thunder-wings.-Camnon, suils.
Wider uorh. - The seas. Perhaps their possessions and influence t! iroughout the world misy also bo included. Her Queen is Enpress of India, and Britain has lung sinco been "Mistress of the Seas."
Point out her possessions on the Map of the World and contrast them with those of Rome, especially in the sense of being a wider world. Sev map of ancient world for the Roman possessions.
liegions Cesar never lincu.-The now world. Canada and the United States. This stama may refer altogother to the United States; the last stanza including all the colonies.

Eagles.- The eagle was an Assyrian symbol. It was adopted by the Persiats and by the Romans. It is also in the Coal of Arms of the United States.
Invincille as they.-Referring to the great strength and wealth of the Onited States.

Bards.--The Druids were the priests, teachers, historians, and musicians or bards.

Felt them, dec.-She perhaps misunderstood the prophecy, -it least as to the time of its fulfilment.

Rukhed to butlle.-Boadicea's wrongs roused the Britains. They rose in all their might and rage. They laid wasto the Roman possessions in the south and east of Britain and slew 70,000 in a few days. The fates of war soon turned. Tho Britains wore defeated, and 80,000 killed. The Queen, overwhelmed with despair, rather than fall into tho hands of her enemies, poisoned herself,

Rufians-(luuf'-yans).-The Queen's estimate of the Romans.
Heaven avcurds the vengeance. - She still had faith in the words of her gods. The empire did suftor tho vengeance here predicted, beforo its final and hopeless orerthrow, from the Goihs under Alaric, the Huns under Attila, the Vandals undor Genseric, and
the cther tribes that poured in upon her from tho northern swamps and foresta.

Rimpire is on its. -On the British mation. Her people, the an cient Britons, were nearly all driven onl of the comitry by tho S.nelish shortly after the Romans witherew. Buadncea ruled over unly a small part of what is now called Britam.

> himanatical c oanthuctions.

When.-Conjunctive adverb, introducing the adverbial proposttion ending with gods.
Suge.-Adj. quahfying Druis.
Prep. relation, sago beneath nak: or sat beneath oak.
bencath. -If the prophetie pmowr wis due tu the sacred surrounding then the former ; it not the latter.
(IVhech) he spuke. - An adj. prop., qualifying word.
Thut.-()bject of has sphl.
Hupeless and abhorred.-Adjectives atriblbutive to liome.
Leev, - Adj. also attributive to lame.
fur--Relaion, renowned for empire.
suvn.-Adr. wod. sliall kiss.
Jlur.-Verb, mp. mood.
Is - Presemt tesso mith a future reference.
lecadless.-Adj, attributive to Romans.
Sut urms.-Relation, anm shall rot.
Ilu mony. - Sub. of shall be understood.
Then.-Adv. $=$ at that time.
Armad-cheli.-Adjectives, attributives to progeny.
Shell commeul. - Subj. progeny.
W'orhl.-Object of shall command.
Regrens. - Ubject of shall sway.
(ilhieli) (kesar mer knew.-Adj. prop. to Regions.
Whese-Cunj. adv. introducing the adv. sent, tudag wath tiew.
Tune.-Indet. pronoun, subj. shall be understood.
lurimible.-Pred. adj. yual. nome.
They.-Subj. of will be understuod.
Siuch.-Indef. pronl. subj of were.
Preynunt.-A (i). quall. words.
Bending.- Prest. part. attribute of Burd.
$L_{\text {ybug. }}$ - Pres. pari. attribute of she.
Haut-Plural, its sub]. benno two sing. nouns connected by and.

## THE HISTORICA: DEVELOPAENT OF EDLCATION.

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By david allisun, llmd., sulemintendent of mdugatiox yor sova scotia.
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## (Continuted.)

One glance at the hetony of coucatom is enough to dispel the i) usiuh "hac!, huseler, is at very widespread one-that fiom the
 of etudias. On the cuntray, in the conflict betwen the uld and tee bew, 10 whih I hase antuded. "hastory repents itself." The histcry if cducatum is the history of revolutions. If we view time as made up, nut of manute frasments, but of tersomably extended fericds, we see that there has ahwavs been an "nid education" and, a " nete calucation." The advucates of the latter no duubt often display unnecessaty agressweness in pushing themselves forward as the representatures of new conditions and ideas, while the friends of the former in defendang therr hereditary preserve, are often tompted to make themselses the champions of the preseriptive, the taditic nal, and the stereutyped.
All the essential conditmos of the great educarional revolution which is going on before our own eges were anturpated on (ireece mere than two thousand years ago. The hastony of the remarkable movement to which I refer is preserved on the jrage of comedy, but it is none the less trus and trustworthy on that account. A new ora had dawned on Ahhens. The adrasce of evilization had developed new mellectual conditwins. Diahematical and phiniser phl cill studues were kinceking at the door of the schools, and threatensing the old-fashioned insiruction, whish, m the eyes of all metelligent men, had become a palpable anachronism. With the consel vative instincts of a puet, Aristophanes, a writer of the keenest wit and of almost untivalled lyric genius, undertook to champion the cause of the traditional culture. The new studies were spoiling the manners and corrupting the morals of the youth. As compared with the olden times, boys duffed their caps lees reverently, girla
curtsied less modestly, while both alike were being unfitted to contime the honest toil of their parchits. These mecmuner studes I wero the invention of pestilent buss budes and crack-braned manivators. Athens had bechme great and ghorsum wheout them, and Idel not need them then. The erue pulicy was to abode by the old thme-tested, time homesed stamdards, shummg the woth of icono|clists and impostars, and particularly avidang the danger of overedacating the childien of carpenters and cubblers. Were Aristophanes living and writing nuw, we could not pronounce ham a very original thinker. He could assuredly be charyed with plagiariang Ifrom Richard Grant White, and might nut unfarly wo suapected of isteahm an idea now and then from a certan school of Canadian - writers on the subject of pepular education. But of what aval was ieven the gronius of a great puet when enhisted in behalf of a lust I cause? Ridicule howerer polished, and lyne fervor howerer lofty, fombld not keep back the tides of a myhty mellectual revoin. fron. The new studies might be travestued, they could not bo kept back.
fin fact it may he said that all history is a protest aganat the folly fof assuming tinalities in the instroments of education. Who, durImg the course of long centuries, would have been wild cnough to - evea hant that Aristotio would ever luse has mperma sway over the 1 human intellect, and were the whole length and breadth of human 1 benmang f And yet to day it would bo just as possible to do any other mpossiblo thing as to repture to has famous categories and isyllogrins the suprenacy they so long mantaned m the schonls of , Europe. 'This, lsay, while yielding to nune in profond reverence Ifor "the stronyest man of the ancients." and in true and loving 1 regard for the "doctors angelic, ductors eraphe, doctors invincI ible, and doctors irrefragable," who bang with rapture on his mmutest word, and gathered amomd the central points of his phil. osopliy the vast mod curious treasures of the scholastic hiterature. Let us remember, tou, that Aristotle neither owed his pre-eminence toriginally to accident nor retained it by the mere force of presenipiton. Indombtedly, towards the end of has career, in tho selmols, a men continued to adhere to him when it would have been tho part fof wislom to let him go, when the fall of Contanmoplo and the - dispersion of her scholars, the crusades and the contact of European 1 mma whin Griental learning, the dawn of the mductro phalosophy 1 and the hirth of the experipucital sciences, had placed something - better whin their reach. But during the greater part of his long rulgn he sat on his throne by right. When we abuse the scholars of Western Eurnpe for deferring to has authority, we most unreasomably abuse then. for they built their system on the best basia fon knowledge within their reach. But it became no longer true What Aristotle "treated every subject coming withon the range of '..scient thought better than anyone else," the foundations of the ' what master's kingdum were shahen, and in its ultimate overthrow ' we have a must impressive prouf of the puwerlessness of mero prescriptive authority to resist the pressure of new condtions of intellectual activity.

Let us glanco fur a mument at the hastory of Greek as a subject nf instruction the scheuls. Who, in the glonous noon of the Renaissamse, could hate dreamed that the day would come when a remewned 1 riter un education would refer to the quantily of tho penultimate syllable of Iphrima as a trwial matter, when a famous graduate of Oxford would athm the stury of Greek to he defensible only on the theory that studses are valuable in propurtion to their uselessness, or when an Amerrcan scho!ar with an historical namo would boldly proncunce that study to be a "collene fetich"? For my own part. I cherish the hope that the Janguage of Demosthenes and Plato will for many generations yet mondicate for aself a place in the recugnized circle of useful studses, but we must irably admit that we are not humg m the diys of the Renassance, and that to modern collegians Greik cannut be exarily what it was to the youth whosat at the fect of Erasmus. But ats h.story as a study strihingly lliustrates the princi, we which I am seekng to unfold. Whatever shall be the tme or the mamer of its "gomg out," its "coming in " was the means of che of the most marveltous of all intellectual revolutions. Thrso who speak of Latm and Greek as the studies over which men doged ana dreamed durng "the Dark Ages" display strange gharance of tho planest historical fact. Greek is a modenn rather than an ancient study. It forced its way into the European universitics in zome cases after centuries of obstinate resistunce from the entrenched culture, and zandor compels the acknowledgment tha its final triumph was due to practical and utilitarian reasons, raiher than such as are s:ow ugged m favor of its retention in our school and collego programmes. These last
are based on the excellent mental ditl involited in tho mastery of its highly phis:-s phical syntax, wn its adaptation to philulogical research, on the paner of its literay y treasures to stmulate tho imagiontion and cultinato the tnste. But buch were not tho circumstances which gaincd for it its orignal admission to the seats of leaning in Eurupe. Greck was the practical stady of those times. It commended itself on positively nutitarian gromend. It rovealed knewledge which could lut le whained frum the imperfectly Latinized Aristotle. It furnished the key to all that was best and wisest in human thought, not excepting event. e words of him "Whu spake as never man spahe," thus induchy men to study it just as English schulars study German, hut so much fur the sake of the languge us for the eahe of the treasures it unlucks.
$\pi_{5}$ gunpose does nut require any attempt at furec.usting the iuture of this noble language in our sehouls. The determming principle is a plain one, and that principle is nut pressuiption, but utility. Greek came in as a stuplianter, becausu it wiss a better instrument than the studies it displaced, and it will go cut supplanted in turn, whenever it shall cease to answer stme one of the really important ends of education better thun anything else. We camut be depended on for any length of time to lumber up our courses of study with mero fossils and mummics, or to use a poer piece of machinely when a good ono is within cur reach. In a recene paper, the furemost Greek scholar of America, Professor Guodwin, of Haryard, after referring to the accredited place of Greek in university cuurecs, observes: "But neither this nor any uther study can occury his responsible positiun eacept at the pice of eternal vigilance. It must be wide awake, too, to see that its methods are not antiquated.

The foundations which it lays must be solid and 'nsting, or something better will take its place." Thes engacious clsoriations both state and illustrate the principlo I hase been trying to unfold.
Other illustrations of changes in oducational subjects and notheds consequent on chan,eces in suciety nud advances in crivization surgest themselves beg ond my purer to use then. When Aquaviva, in education the great organzing genius of the Jesuit Oruer, was plaming the policy wh ich ultmately bought the schuols of Europe under his sway. he was wise enough to see that he was living in a new age, and that the Trivium and Cuadririun of the medieval schools had outlived their usefulnees. His vutio atquc instatutio sthdiorum was the product of a profound appreciation of the tendency of tyents and the practical demands of the age, and perlaps did as much as religious zeal in extending the influence of the famcus Order.
It would make this part of my paper disproportonately long wue I to tefer, as I property might do, to the recognition reluctantiy accurded in these last days to science and her multifurm ap${ }^{1}$ lications, first, in the miversmes, and then, in respect to mure elementany prit ciples, in the astitutions for secundary and primary education. Suftice it to say. regarding the general subject, that I by no means wish to conves the meaning that histurical seferences will emable us iufallibly to decide the clam of wal studes or i ival groups of $t$ tudies. Dy such refereaces, huweser, we learn to rebuhe the dogmatism which c, ademns a stuay smply kecauso it was not to the front a century agu, or applauds anchiter whelh ages ago answ ered cunditions that hate passed away neser to feturn. They teach us that in the studies of the schuol as mother thange,
"Our little systems have their day,
They lave their day, and cease to be,"
while, in view of the almost alarming multiplication of new sciences, and at ts basea upnn them, we incrensingly apprecinte the knowledge of such a principte, that we may be saved from utter bowilderment and despar. Life is too shott to enable us to learn ull that our furefathers learned and that vaster knowledgo of which they knew nothng, in addition. If we are sometmes led to fear that the old deas of culture in the abstract, of mental disciphe and development, pure and simple, is in danger of becoming extinct, wo must encourage ourselves with the conviction that studes wheh entich and acorn life will also train and develop mind.
2. A closely comnected inquiry, and one in reference to which it would be proitable, if time permitted, to elicit the true teachung of hastory, is how shall the various branches be traught, how, in ro. spect buth of the ends aimed at, and the methods adapted to those ends? Tho gh this is in fact a more important question than that which has thus far occupied us, its consideration here must be confinid within narrower limits. It is impossible to compress into the few peyes nt my disposal the substance of tho rapidly extending literature of educational science. At most I could only hope to
turch on a fow leading phenomena and principles, and that in a cursury and superticial mamner. The subjects tiatgit in uur schools are nut only curicure, but to a largo extent they stand related to differont faculties, thas in the vory nature of thangs, renderimg it impussiple to discuss under present limitations, evither the underlying lhis or practical methuds of successfal teachung, with any breadth or fulnees of treatinent.
We are professing, howuer, to view the subject in the light of historical inguiry. Well, su far na much of the past is concerned, the value of the results of such inquiry is of a purely negative claracter. We learn tho iupportance of truly philusopheal theories and methiuds of education by ubserving what has tahon place whero thoy have been absent, just as wo learn the value of scientritio systems of agriculture by noticng the sternlity and desolation to whinh empir1cal in ining always leads. It ought, huwever, to bo a causo of real gratiticathon that thruugh the slow and often almust untraceablo evolution of the agcs, we have reached in these last diys at least an apprusimation to a definitely formulated Suesce of Educatios. It must be admitted that of the ellucating rates of the world, our own has had perhaps the least to do with aiding this develupment, and is by no means among the furemust in recognanang its mportance now. Many highly ceducated Enulishmen, and some hughly educated Candians, tov, I fear, are prepared to smile iucredulously when told that psycholoynual research has brought to lyght a science of whose laws atl rational methods of mstruction are smply the practical applicatuus. But it is ubvious that unless the human mind is utterly without law in respect to the operation of ats fasulties, such a science must exist pulentially, nad we have reasun to be grateful for the degree of fulness and precision with which its principles have been actually dereloped.
A recent writer expresses the upinion that, "in spite of the great advances which hare been made of late years, the Ncience of education is still far in alvance of the Aht, selheolmasters still teachng subjects which havo been unversally condemned by educituonal authorities for the hast two hundred years, and the education of every public school being a farrago of rules, pranciples, and customs belongmg to every age of teachung." To this we may say ahat it is a great thang to have the science, even if the art yet hass so far behuma. Sumething like this might wi.h some truth be sant of the rolation of overy art to its kindred science. But if this be specially true in resplect of the science and art of educition, the reasons are not far to beek. Education is young; the scrences with wheh the comparisun is cuncerned are old. The correct application of their princi,ples lias Leen carefully studied out by long processes of induction, Huctumy centuries in their sweep. Law, medicine, and theoluyy linve thus been patiently investigated amid the insprations ital cypurtunities of famous universities. It nay indeed be said that sume of the particular problems cunnected suth education excited attention eyen in the carlest tunes. So they dad. The acute and perspicacious intellect of that great speculative thinker, 1lato, anticipated some of the positive cunclusuus of modern educational science. Aristotle and Qumethan grasped and enunciated valuablo principles wortly of beng meorpurated in "the budy of sound doctrine." But these cearly attempts at systematiznuy the princ.ples of education were lust sight of durng that loug period of dense wbscuration when men with difficulty retianed in inerr vasion even the rudimentary shapes of learmug. With reviving culture naturally the tirst question was, "What shall we study ?" not "How shall we study?" But in tino the inductive spinit generated by Bacon did its work. Patient minds traced out the idea of eiucation as something having a definable scientufic basis, something imme:isurably transcending routine varied ouly by empirical gropings in the dark. Unfortun:tely this new theory received but scant countenurce at the great seats of learming. The universities had lost the fresiness of the Renaissance inpulse, and too generally had given theinselves up to the sprrtit of ease. Individual names of grear emmence consecrated the new science, but the tisk of evoly11tg ts principles and methods fell chietly to the lot of a few lonelys investigaturs, working apart and often repeatmg each other's discoveries, without in many cases proper epportunities for broad, reliable inductions, and thus led to propound as educational axioms absurd paradoxes which fuller observation would have reduced to the limits and proportions of reason.
(1'o be continuted.)
It is said that the engravings for Uarper's Monthly cost $\$ 100,000$ a year, and that the Century has spent as much as $\$ 6,000$ for illustriticns for ono articlo

## Examimation 引bapers.

## EICCITHN DEPARTMENT, ONTARIO, JOL ENAMMATHONS, 1885 .

> FH:ST CLASS TEACHEBS - GRADES A ANU H.

## ANCIEN'T HISTORY AND GEOGRAPHY.

## Examiner-Cornelius Donoxen.

1. Brietly describe Xerxess insasion of Greece, from the passago of the Heliespunt to the bittle of S.lamis, inclusive.
2. State the causes which led to the prevminence of Athema among the Grecian states; and show how this preeminence atfected the welfare of Greece.
3. Give a short deweription of the condition of the Roman Re. public after the congnest of Carthage and Grecee.
4. Shetch the leading events $m$ the life of Julins Caesar, and ahow the influence of his career on the em in which he flourished.
5. Write notes on-Areopagus, Soctates, Achawan League, Licininn Law, Cato, Mithridates.
E. Draw an outlme map of Muere Meliterruncum, marking tho locations and the ancient names of its islands, and of the principal countries and cities on its shores.
6. What and "here were the following; - Prupontis, Iberus, Eubuca, Sequana, Utici, Corcyra, Jura, Chersonesus, Lugdunum, Gades?

## MECHANICS.

Examiner-T. C. Glankan.

1. Prove that the moment of any two cuplanar forces with respect to any point in their platie is equall to the aldebraic sum of the moments of the furces with respeet to the same pomt.
Fuar rods jomted at themr extromutes and formang a quadrilateral capable of beats anscribed in a urele ate hept 1 m equilhbrium by two strings joinng the opposit, aterelat points. Show that the tensions of tho strings and the stresses along the ruds are inversely proportional to the lengths of the respective strmgs and rods alunts which they act.
2. Assumung the truth of the parillelogram of fores for the maynitude, prove it for the divection of the resultant.
A rouf neighung 20 lis. per syuare fout and having a pitch of $60^{\circ}$, rests on side walls 24 ft . apart. Determme the mismitude and direction of the pressure on the fout of uach rafter, they being 4 ft . apart.
3. Two heary particles of masses, $M$ and $m$ respectively, are connected by : perfectly flexible string of insensible mass, passug over a smouth peg. Determine the motion of each particle and the space passed over by it in the first $t$ seconds after the begianing of the motion.
A balloon which with its att.chments and load weighs $1,200 \mathrm{lbs}$., aud which is capable of sustaniny 300 llh . additional but no more, , 18 allowed to rise freely through the ar. What would be the weight if the balloon were not ascending, of it mass which in the car of the ascending balloun weighs 10 lbs on a spring balance?
4. State the principal laws of friction and brietly describe how they may be veritied experimentally.
A body of mass, $M$, is caused to slide on a ruugh horizontal plane by a furce of $m$ p.indo wisioht 4 fter netin! fur $t$ secunds, the force is suddenly withdawn and the bndy is allowed to shde on till brought to rest by friction, when it is found that the whole length described from rest to rest again is $s$ feet. Determine the coelliciont of friction.
5. Enupeciate the Second Law of Motion, and show that "change of invtion" aucy br interpiteted uther as tine rate of change of mumentum, or as space rate of change of kinetic eneryy.
Henco show that if the force be constant $f s=\frac{1}{2} m v^{2}$.
A partucle of mass $m$, projected with velocity $v$, at an angle of elebativi $u$, strikes at rught angles a phane melned at an angle $\theta$ to the horizon. Find the energy of impact.
fi. Enumciato tha 'Third Law of Mution, and show that it may bo regirded is at statement df, -1st, the equality of the forcos constituting a stress ; 2nd, the conservation of momentum; 3rd, the conservation of enurgy.
$A, B$, and $C$ are homogeneous spheres whose masses are 4,2 , and 1 respectively, whose commun elasticity is ${ }^{4}$, and whose centros aro in a straight line. $B$ and $c$ are at rest touching each othor. A moving with a velocity of 1 ff . por second inupiuges ou $B$. Dotermine the positions and velocitios of the spheres one second after contact.
6. A particle of mass $m$, describes a circlo of radius $r$, with uniform volocity ${ }^{2}$ ", under the action of a force $f$ directed towards the centre. Shaw thitt $f r=m v^{2}$.
Find the weight of at miilway train travelling due west at the rate of 60 miles per hour : $: 1$ tho latitude of $40^{\circ}$, the train when at rest weighing 200 tons.

## CHIACCER, POPE, AND WORDEWORTH.

Examiner-John Seath, B. A.

## I.

1. Name the chief characters of Chaucer's Prologuc other than the Persoun, quoting from Chaucer a descriptive phraso suitable to each.
2. A good man was ther of religiom, And was a pouro Persouh of at toun ; But richo he wais of holy thought :and werk.
He was also a lerned man, a clerk
That Cristes gospel trewly wolde preche ;
His parisschons devoutly woldo he teche.
Benigne ho was, and wonder diligont, And in adversité ful pacient; And such the was i-proved ofte sithes. Ful loth were him to curso for his tythes, sut rather wolde he yeven out of dowte, Unto his poure parisschens aboute, Of his offrynge, and eek of his substiunce. Ho cowde m litel thing han suffisaunce.
Wyd was his parissche, and huuses fer asonder, But he ne lafte not ior reyne ne thonder,
In sicknesse nor in misclief to visito
The ferreste in his parissche, mocho and lite,
Upon his feet, and in his hond a staf.
This noble ensample to his scheep the yaf
That first ho wroughte, and afterward he taughte......

- He was a scheptierde and no mercenario.

And though he holy were, and vertuous,
He was to sinful man naught despitons,
Ne of his speche daungerous ne digne,
But in his teching diseret and benigne.
To drawe folk to heven by fairnesse
3y good ensample, this was his busynesse :
But it were eny persone obstmat,
What so he were, of high or lowe estat,
Him wold he snybbe scharply for the nones,
A hettro preest I trowe, ther nuwher non is.
Ho waytedo after no pomps and reverence,
Ne maked him a spiced conscience,
But Cristes lore, and his apostles twelve,
He tayghte, but first he folwede it himselve.
(a) Wrte in modern literary English the preceding extract.
(b) By neans of this extract, illustrate the differences (one illustration for cach differencu) betweon Chaucer's Engligh and mudurn English, exphaining, when pussible, thu urigin of Chaucer's peculiar furms.
(c) Illustrate from tho above what Matthow Arnold calls "tho lovely charm of Chaucor's movement."

## II.

3. The "Prologue to the Satires" has been described as a poetical apology by Pope for his lifo. Discuss this statement.
4. Peace to all such ' but wero there one whose fires

- True genius kindles, and fair fane inspires :
- I3lest with cach talent and each art to please,

And born to writo, converen, and live with ease;
should such a man, too fond to ruid alone,
Par, hke the Turk, no brother near the throne,
'iew him with scornful, yot jealous ages, And bate for arts that caused himself to rise ; D.umn with faint paise, assent with civil leer, And withont sucering, teach the rest to sneer; Willime to wound, yot afraid to strike,
Just hint a fault, and hesitate dislike; Aliko reserved to blame, or to commend, A timorous foe, and a suspicious friend; Drendmg ovan fools, by thiterers besieged, And so obligng that he no er obliged ; Like Cato, give his little Scuate laws, And sit attentive to his own applause; Whilo wits and templars overy sentence raise, And wonder with a foolish face of praise-
Who but must laugh, if such a man th 01
Who would not langh, if Atticus ware
(a) Write explanatory notes on this extrac..
(b) This description is said to illustrate Pope's characteristic oxcellences. Justify the statement.

## Buatial Expatmont.

## DRAWING.

by william iburss, ditawing masthis, higil sehood, mbambton.
(Tho Editor of this Depurtment will be gall to answer questions for information addressal to him in care of the School Jounsal.)

## V.

We will next consider the drawing of such figures as can be used in covering spaces. These figures will test the accuracy of a pupil batter than any othor axercise, as unless tise greatest caro is used in drawing the first figure, the multiplied error soon becomes pain. fully evident. They also practise the pupil in the invention of shorter modes of accomplishing the wished-for result, and thas also becomes ultimately a benefit. In giving these exercises, it is as well to select such si\%es as will prevent the space being occupied exactly by the figure given; thus, if in a space of six inches square wo require squares of 13 inches to be placed, the pupil will see that the work camot be done irregularly, but must. proceed from one given side, and left incomplete at the opposite one. The proil wild observe that, of simple figures, squares and hexagons alone will completely cover any space, and that a mixture of squares and octa. gons will do so also. Let any given space be first covercd with squares whose sides are parallel to those of surrounding border, and then with those whose sides are diagonally placed. Next let a similar space be covered with hexagons (called the " bec-live p.t tern). This is most easily drawn by placing one hexagon in th ${ }^{0}$ centre of one side ; then, by producing sides and diagonals, it wil be evident that a series of points can be found which will assist in construction of other figures. Let the same be done with an octa gon, when it will bo seen that tho intervening spaces will be regular squares if properly drawn. An excell_nt exercise in this work is ' 0 make the pupil divide a page of the drawing-book into four or as.e. equal parts, according to its size, and then to regure these purtion ${ }_{s}$ to be covered each with a different pattern-but bo sure that the space is of a tolerable size, as minute work too casily conceals orrors in construction. One of the prottiest of these patterns is the "star.cross"; it is vory frequently used in patterns for canvas, carpets, etc., and is the best "strayght-line" answer to the question set at a late entrance examination: "Give a pattern ior a floorcloth."运To draw a "star-cross" pattern :-Dra: frst a square with its cliameters, produce those diameters, and vake them equal to the diagonals; join the points. thus found, which will give two
syuares uvorlyiug each other, and whose diagonals include an angle of $4 \overline{0}$ degrees; by strengthening the outho of these squares we obtain an octagonal star. If 8 ropetition of these tigures is mado, the result will be octagonal stars with a cross butweon, produciug a most.dfective pattern ; and will also exercise pupils the ingenuity in finding shorter modes of doing it than by making each tigure separately. Numerous varicties of these patterns can bo drawn and interreixed, -the good drawing in overy case depending on the care taken in making the first figure as oxact as possible. Leavo the pupils to invent for themselves some now combinations of forms, or to copy them from some carpet or canvas which they may havo seen. This will develop obsorvation at any rate.

We must next proceed to curved lines and curve-line figures. In drawing these. the teacher must be content with oven a less degree of accuracy than in straight-lincs ; still, if there is any improvement made from day to dity, thero is no reason to bo dissatisfied with the rosult. Short lessons and frequently repeated exercises will bo the best way to avercome the difticulty. Naturally we commence with the circle. As a mathematically exact figure, this curve is least artistic and least pleasing to the oyo, at the same time that it is most diflicult to draw. Specially note that no mechanical means of drawiug it are used, as this will spoil every advantage that otherwiso might be gained. One simple way to draw a circle by free. hand is to draw a square of one side equal to the given damoter, dras its diameters and diagonals; then, as tho circle must pass through end of diameters, eight points aro obtained. This is shown in First Reader, Part II., second pago of drawing-at pian which is quite impossible to bo done by the children of six or seven years' old, such as are supposed to bo using this book, and which would be far better pliced at end of Third Reader, where there would be some probability of its being useful. Similarly connected patterns of ares can be made by forming a series of squares, and then describing semi-circlos on their sides or diameters; these forms can readily bo copied from the First Reader, Part II. The teacher will find that the provalent error in the first drawn free-hand circles is the pointing of the figure at the ends of the diameters. or the flattening of it in the centre of the quadrant-this error can easily bo rectifed by a little care. In no work is it moro necessary to prevent frequent use of eraser. Let the paper be untouched by it until the figure is completed, and then use the eraser once for all in clearit: nut these errors. If it is constantly used in the progress of the work, the papor becomes rough aud unfil for use. A piece of stalo bread forms an excellent eraser, especially for heavy lines.
Exercise. - Divide a page of drawing.book into four parts. Fill the first with squares of 1 inch side, drawn parallel to its sides; the next with'squares of 1 inch side, diagonally placed; the third with hexagons of $\frac{7}{4}$ inch side; the last with octagons of $\frac{1}{2}$ inch side.
Draw a square of $2 \pm$ inch side. In it inscribo a circle. Surround this squaro with four other squares, and inscribe another circle in each. Surround whole figure by a circle.

## HOW CAN WE INTEREST PUPILS?

Tuinterest pupils the teacher must be an inventur anu - 1-vise many ways and means adapted to difforent cases. I shall only submit a few that I have tried :-

Bave some cheorful oponing exercises in the morning, such as singing.

Give them plenty of wurk. Kcop them busy.
Give them plenty of written work. Do not lot themsit and study in groups. Arouse their anxiety. (iet them to ask questions.

Have a query box. A iuury han, if properlv made use of, will dovelop a wonderful in':erest in a school.

Have them recite selections and speak dialogucs.
Give them short oral lessons in science. Gecastonally read them a short sketch from such piapers as I'reasure Trore.

Ruver tell a ceholar anything ho can find out for himself, but teach him how to study. Show him that he is not sent to school as a punishment, but show him why hegoes to school. Show him why he learas corh iessan, and hun he may apply at practically. Tuinterest puphls an any une study apply the rulo just given. Show ham why he studies that spectic study. Also bring out points connected with the lesson outside of the text-book. In reading, question the pupil regardage lus lesson, that he may learn how to study and remember it. Have them write reproductions of their lessons occasionally. Fourth and higher reader pupils may also bo interested by their attention being called to the beauties of different authors.
In all readnif, classes du not ship any words without findmg their meanings. If we mato a lut of machines of our pupils, to stand and simply reiterate mere sounds without comprehending their meaning or use, they soon lose all interest in the most important branch of all study.
In lianguage, grammar, writing, and spelling, meterest the pupils by urging the use of writing decent letters and composition. Tr arouse an miterest in letter writing, procure a lut of cheap paper and envelopes. Have each child uld enough to writo letters, write a letter to another pupil and place the same in a bux called the pustoffice. Mrark mistakes in these and hand them back to the authors. After haviug been re-written, the letter may be replaced in the post-ofice, and the one to whom it is addressed receives, when he, in return, answers the the same way.
In arithmetic, we should the spectal care, lest the students become disinterested by learning only the "how" and not the "why."

Therefore, in addation to work in the book, have them frame examples of their own, whel demonstrate the rules undor which they work, and which are practical illustrations of such exanples as are liable wo vecur in the iveation they or their parents aro pur suing. The class in oral numbers can be kopt brsy by adding, subtracting, andtuplyag, and divahug with suall stichs (buch as twoth-piclis, ior instance) as r.ell in their seats as in the class.From Lisay of J. W. Olan.
-

## whispering.

a conversation in til an old tfacher.
How do you stop whispering?
I don't stop it. I regulate it.
Please tell me what methods you use.
The principal ono is interest. I top one fire by building another. When I seo a pupil addicted to communication, I first discover Whether it is ..obut schnol rork. . not. If it is not, I inquiro of myself why he lihes to talk of things untsude the schoul-roum rather than things inside $;$ in fact, I begin a sort of self-examination as to the reasun thy I have failed to muterest hum sufficiently in his atudics to lead hm rillingly wattond to school thuughts inside the school-house.
Do jou consider yourself responsiblo for the intorests pupils take antincir studies?

If I am snt, who is? Sy duty is not done until I can influence each pupil willingly to study his lessuns. Fureng pupils to do what they don't want to do is the prime cause of criminal whispering. I say comanal, fur I du iot cunsidor that communicating abuat lessona with an honest spirit of inquiry is a great crime. Tho fact is, it is
an excellent symptom in an indifferent scholar to find him anxious to find out something cincerning school work that he cannot find out for himself. Many times I lavo rojuiced to find a pupil whis pering about his work, for it gave evidence that his mind was voluntarily commencing to wor!. Tho best sign a pupil can give of progress is a spirit of suquiry. I am carcful nover to repress it "hen uncu it besins tu bo active. Frequently I have beon wbliged to quetly hint in n private way that he must be caroful about.his S's, suggesting that they are hissing sibilants. Generally this is suffinient, but if not, I talk to him alone, being very careful to keep his confidence, and urge on the spirit of inquiry wakened into activity.

Some teachers seem to be more anxious to keep order and stop whispering than rousing into action the sleeping energies of the children. Activity is the cnly evidence of life. A whispering, and eren whistling, buy is wurth a thousand times as much as a sleepy dolt who hasn't energy enuugh to kill $\varepsilon$. mosquitu. I have seen a dull pupil so periectly trained by a "first-class disciplinarian"(3) that he would sit for five minutes with folded hands, eyes fixed on vacuity, and let a musquitu bite hmo on his nuse, and not dare to raiso a hand to brush it off. I wouldn't give a fig for such a pupil as that, or the trentieth part of a fir for such a teacher.
A teacher has something else to do than to spend his timo in continually talking about orde 0 have heard such an address as this at the opening of a school:
"Now, pupils, be crreful to keep very quiet to-day. I am expecting visitors, and it would disgraco us for them to seeany of you whisperiug. Don't laugh, move very quietly, and then jou aro out at recess make no nvic. Remember our motto: 'Order is heaven's first law.'"

Isn't that a good maxim? I have always been taught that it lay at the foundation of all school government.

It is the nost pernicious maxim ever posted on the salls of a schvol-room. Tho thought is rig it, if interpreted properly, but must teachers understand it to mean that classes must move in exact military precision, and that every recitation must be guided by the law uf suppression rather than activity and growth. The maxim should read,

The rorst teaching I orer saw was in a most "orderly" schoolErerything moved like clock-sork. Each question was asked with wonderful precision, and the answers were given with text-book certainty. There was 130 whispering in this school. The teacher told me that it mas entirely banished. I believed her, but I manted to say: "So is everything elso worth anything." I didn't, but left her belioving that sho mis teaching tho most monderiul school in the stato, while the fact is she arasn't teaching school at all.

What would you say to young teachers about whispering?
In answering this question I will give you some of the "points"
in an address before our last county teachers' association. They rill ause er your question as well as $\dot{I}$ ann able.
The duty of a teacher is to teach.
Good gorernment comes through good teaching.
Disorder conung from attention to school trork is casily regulated.
Disorder coming from want of attontion to school rork can bo banished by securing interest in studics.

Whon it is prored that a pupil cannot bo interested in what pertains to the school, steps should bo taken to remore him from the school.

Incentives aro the most powerful governmental forces. Tho bost teachers mare great uso of thera.
All good government is self gorornmont, both as it rolates to tho teach 3 r and tho pupil. - Exchange.

## Ifor fribuy zaticnoons.

## the inon gate.

o. W. holates.

Where is this patriarch gun are hindly greeting ? Not unfamiliar to my ear his name,
Nor yet unkno m to many a joyous meeting
In days lo'g vanished,-is he still the same?
Or change a by years, forgotten and forgetting, Dull.eased, Lim-sighted, slow of speech and thought;
Still o'er the sad, degencrato present freting, Where all goes wrong, and nothing as it ought?
C.d age-the graybeard-well indeed I know him, Shruak, tottering, bent, of aches and ills the proy,
In sermon, story, fable, picturs, po mOft have I met him from iny eacliest day.
In my old . ङsop, toiling with his bundle, His load of sticks, politely asking Death-
Who comes when called for would he lug or trundle His fagot for him? Ho was scant of breath.
And sad "Ecclesiastes, or the Preacher," Has he not stamped the image on my soul
In that last chapter, where the sorn-out teacher Sighis o'er the loosened cord-the broken bowl?
Yes, long indeed I 'vo known him, at a distance ; And now my lifted door-latch shows him here;
I take his shriveled hand without resistance, And find him smiling as his step draws near.
What though of gilded baubles be bereaves tio, Dear to the heart of youth, to inanhond's prime,
Think of the calm he brings, the weallh he leaves us, The hoarded spoils, the legracies of time.
Altars once flaming, still with incense fragrant, Pission's uneasy nurslings rocked asleep,
Hope's anchor faster, wild desire less ragrant, Lifo's fluw less noisy, but the stram-how deep !
Still, as the silver curd gets worn and slender, Its lightetied task-wurk tugs with lessenng strain;
Hands get nore helpful, voices grow more tenderSootho with their softened tones tho slumbering brain.
Youth longs and manhood strires, but ago romembersSits by the raked-up ashes of the past:
Sproads its thin hands abure the whitening embers That warm its crecping life-blood till the last.
Dear to its heart is evory loving token That comes unbidden ere its pulso grows cold ;
Ero the last lingering ties of lifu aro broken, Its labors ended and its story told.
Ah! when arnuud us rasy youth rejoicos, For us the sorrow-laden breczes sigh,
And through the chorus of its jocund voices Throbs tho sharp notes of misery's hupelexs cry.
As on the gauzy wings of fancy flying Frone sumu far orb I track ur wawery sphero-
Home of tho strugeling, sulfering, duabting, dyingThe silvered globule seems a glistening toar.
But nature lends her mitror of illusion To win from saddening scenes our ayo-dinmed eyns, And misty day-dreams blend in sreet confuaion The wintry landscapo and the summer skics.
So when the iron portal shuts behind us, And lifo forgets us in its noise and whirl,
Visions that shumned tho glaring noondny find us, and glinimering starlight shows the gates of pearl.
I conio not hero your moming hour to sidden, A limping pilyrim leaning on his staft-
1, who have never deemed it sin to gladden This ralo of scrrows with a wholesome laugb.

If word of mine another's gloom has brightened,
Through ny dumb lips the heaven-sent messago canno;
If hand of mine anothor's task has lightened,
It felt the guidance the:t it dares not claim.
But 0 my gentle sisters! 0 my brothers !
These thick-sown snow-flakes hint of toil's release;
These feebler pulses bid me leave to uthers
The tasks once welcome, -evening asks for peace.
Timg claims his tribute, sile nce now is golden;
Let me not vex the too long-suffering lyre;
Though to your love untiring still beholden,
The curfew tells me-cover up the fire.
And now, with grateful smile and accents cheerful, And warmer heart than look or word can tell, In simplest phase-these traitorous eyes are teariul-Thanks-brothers, sisters, children-and \{arewoll.

## Cedratiomal hotes amd aldos.

Mrs. Quincy A. Shaw now supports at Boston 22 free kindergartens, with 42 traned tcachers, and 1,200 children in attendance.

Mr. R. K. Row has been appointed to succeed 3Kr. Van Slyke as principal of the Ingersoll Public Schools.

Mr. Knox hus been appointed to the position in the Wallacetown school recentls held by Mr. James O. Black.

The Ontario School of Art re-opened nt the Toronto Normal School on the 12 th inst. Arrangements are being made to provido more commodious apartments.

The Windsor School Board is again wrestling with the question Whether to maintain a separato colored school or allow colored children to attend the Public Schools.-St. Thomas Journal.

DIr. W. L. Wickett, teacher at Yarmouth Centre, has passed suc. cessfully the first year exanination in Toronto Univeraity. This is another example of what young men of industrious liabits can accomplish.-St. Thomas Journal.

The schonls at Shedden and Clachaw have outgrown their buildings and the capacities of their present teaching staffs of ons each, consequently the buildings aro to be enlarged and assistant teachers employed.

Mr Iopuis N. Thibaudeau, teacher, of Little Current. Algoma. District, has been elected member of the Mrunicipal Conncil of Howland. This is an eridence that teachers are heminning to be thought something more that peripatetic instruction machines.

Tho total number of pupils on the roll of the Perth Collegiate Institute for the month of September was 104 , of rhom 39 wore non-residents of the torrn. Arerage at the Public School for same month, $3 \overline{5} 5$.

Dr. Tassie, of the Peterboro' Collegiate Institute, complains of the irrexular attondance of pupils, who absent themselves with permission of parents, but agninst the wish of their teachers, during the latter days of sossion, when examinations are approaching.
The Peterboro' School Buard has passed a resulution to the effect that $\$ 3$ and $\$ 5$ per day, respectirely, be deducted from the salarics of teachers who aro nbsent from their duties without the written sanction of che charman. The principals aro instructed to report.

There are about 400,000 persons ongaged in the instruction of $10,000,000$ of the children and youth of the Enited States. The terchers outuumber the other learned professions umted about two to one.

A Saturday class for the benofit of the county teachers reading Mathomatics and English for first-chuss certificates has been formed in the Woodstock High School. Soren teachers havealready joined it, and others aro expected.

We observe that Mr. Hend, Modern Language master in the Lindsas High School for tho past five years, passed in all subjects at tho recent Queen's Collego exanination at Eingston. MIr. Heall stood high especially in English, French, German, aud Eislory. Fictoria Warder.

In tho recent Sonior Mratriculation Examination of Torontn Tniversity, Huron county has como notably to tive front. Out of fuar first class honors and two scholarships, Saaforth High School won threo first class homors and one scholarshifp. The romainder were
talien by stadents from Goderich ihgh School. Mr. IT. M. Hugnoms
 (Both these branches are tamphey E. W. Hatarty, B.A.) Mr. IN Prendergast, of Seaforth, gimed tirst class an M athematics and the echoharshp in that department. Mr. J. D. Swason, of Goderich, grined the classicel schoharshap. In at comperteon of that nature Huron may well be proud of her buys. The teachers of the respectwe $1 l_{1}$ hh Schools must also feel grathited at such a practecal recurd of their good work.

By reguest we re.publish the following corrected list of suceessful eamduates for tirst class certitieates at the recent examinations:

## Sos-phorevional. <br> (isule e.

Jemme Lonise Cuzner, David $A$. Xestitt, Allan C. Smith. Alex. Wheng, (iny Ambrase Andrews, Alburt Barber, Martha Beddy, Herbert 11. Buggoss, Hary Ibuseley, Thomas James Collons, Elvat
 Thus. 'I. (inarolhonse, Fannie L Gillespies. Ahert b Jewett, Jesse 13. Kaiser, Eduin Lufus, Willian E Lnng, Edwin Lomyman, Jes. sic MelRac, Wilsom S. Marden, James W. Itorgan, James Corres, Henry R. A. O'Malloy, Sidney Phop, John Ritchic, Samuel B. Sinclair, Wilsun If Sinith, Fred L Siawer, Joseph A. Sncll. Jas. R. Stuart, David R. Weir, Duvid J. Wright, Robert J. Watson, D.wid Young.
(iviule li.
Geurge l3ard, sr. Nal W. Canullell, William W. Trelami, Mngh S. McLean, Dasid Rubb, Rubert K. Run.

Girude .I.
Willata II. Haritun, Willian Irwin, Juseph A. Snell.

## (intresponderic.

## THE HHBLE: JN SCUOOLS.

Ahhough it is uncertan that a perfanc.ory reading of the Scriptures anywhere is attended with spuat...d adsantelese, Jet, there is, just mow, a need for finmir the habit of reading them in private tambles. The liouk mas be fomad in ahmost crery homse, yet, strauge thount tace, it is cumpratively an camanom lomek.

To currect this state of things was, I suppose, the mimary motive in introlucing it into Common Sehools.

1 like the motive better than die place, for the goon bow is very irrererently read and hamded in many of them. Fenetathon not. beine matite must be taught amo masisted upon; feut thags are more desirable and as few rarer. It is pustavely fou.fal to see, al. most everywhere, the rapid growth of jusenile impudence. This is an excrescence on the "Trece of Loherts" that shouda be lopped off close to the trumh. Tass nectesuty, tuether with the puterty both
 thmy is made to serve ses eral purmenco, shomal le receised as a suf
 learmug. These disalnimes umdes whah "e late so home labured and do yet labor, will certainly disappear before the march of time and successfill milastry, hat it wouhl he muwise as well :as migrateful to enalanger that certaints ly war remissnoss in onforcing is be-
 Joms lerinasd, Forgas.

## (Qucstion Bratuct.

## Qutistums.

A tencher engaged with a lloard of Trustees (October 1st, 18S.1), for 1585 , at the rate of $\$ 500$ per amum. The following clauses are inserted in the ayrement :-
"The trustees and the encher may at their option respectively terminate thas asrecment by giong notice in writmg to the other of then:, at least three calcuilar munths previous to the 31st day of December, 185\%."
"This axrecment shail alsn be comstrued to contmue in iorce from year to year, uniess and until it is termmated by the notice herein before prescribed."
(a) If mether party gives required notice is the teacher legally

(b) Winnla it affect the furce of the argrement if only one of the three trustees, who signed sad andecment is a member of the board for thas year, the other two beang elected since the sam anrecment was signcil?
 aryle the "Sanson" is sendhang past the mile post at the rate of 40 mites an hoar, sumards the angle or depot. At the same momont the "Elk" is sweepms pist the depst on the othor track at the speed of $; 0$ mules an hume. Nuix, as the tratus will, for a while, approach unc anoher, wast is the shortest lino between them as they pass? What is the areat of the triangle made by the trans and the depnt when they are on the mininum line? Whero are the tains when the area is a maximum?

Josis Inetasis,

## Asswrils.

A Souscinnem-(a) Yes, most clearly so, wo should say, so far as the terms of the argrement are concerned.
(b) Nin, surely not. The agreoment is with the l3oard now with the mdindual members who may happen to cumpose it. A School loward, hke any other corpomation, must bo bound by the action of ats predecessurs nathl it has anmulled that achon in the regular wiay.
We assume, howeve, whe above answer, that the first Bard hat legal power to maku such a contract as that quoted. If they exceeded thear leathmate autiority the vahdity of tho enga, emont mght be alfected. That is a question on wheh at legit opinion might be desinable.

## Citraty © Chit-Chat.

The 11 sseonsma Jom, and of Eidurethom comes to as this menth in an cuturely new dress, athe is areatly improved in appurance.

The volume of Jinnes Russell Lowell's proms-the duodecimo edhtion ot 1sus)- from whach Thom ss Hughes reads his selections in has lectures, wats at present from theathor, and is well-thumbed and worn. The Hy-leaf bears the lines in ML: Lowell's hand, "Io 'lhumas Ihtughes, with all pussible ererything, from the author."

The "Journals of Tomathan Swift, edited by Mr. Poor, for the l'archmeat Library, will soon he published.

Lady Brassey is about to publish an accuunt of Mr. Gladstone's recent tip, to Nurway, in the yacht "Sumbeam."
Levers of Oriental puetry will be ghad to nute tho amonacement by Dodi, Mead © Cur, of ata American edition of the "Sakoontala." "'Ine Greek Arehuplago, with a Look at Turkey after the War,' by Dr. Henry M. Fiedd, will bo welcomed by students of Eastern affars. It is now in the press of Charles Scribuer's Sons.
Mr. Swinton is abont to publish it "Victor Hugn." This will be the thard biugraphy of the great Frenchman, that has appeared in Ehyland since his death.

We anticipate wath pleasure the fortheomine Vere Princeton Recucw whach is to suceced tho ohd, and bids fuir to surpass uven it in 1 abnty and anterest. The new resien is to bea bi monthly, devoted to the naterests of literature and schularship in their hisher das I partanents. There is a gramad field for such o magazine, prepared to treat ali literary, suchal and mumal topics with breadil of view and from the highest standpoint.

Elcetra, publashed at Luuswalle, Kentucky, and edited by ladies, Is a bruat, readable magazue for the hume circle. Its editors only fask for its iurther suecess that the interest, especialiy of women, be enlisteil. The Electra has no corporation, no capital stock to b back at. It has been, until thas juncture, based enturely upon tho indwidual labor and caterprise of two women, though not especially for women. The October mumber contains among other interesting papuers the last instalment of "Canadian Land and Water," which has given its readers a pleasant summer trip, at small expense of time and mones:
A truc story, "The Proicssors Last Skate," by J. Macdonald Oxley, will appear among the attractions of Wide Aecalic, the bruhit luoston magazine fur 1888 . Mr. J. E. Collins, of Ottama, will appear in the same monthly with his "Saved by a Kite,"also a true story of atwenture. In the August number of this favorite magazine for yoump folks, Mr. Cullins has a delightful tale entuled "Ilanted ly a Wild Stallion," which treats in a thrilling way of an excitmg episode at Island Mead, Newfoundland. Mr. Charles G. D. Ruberts, of New Brunswick, lino :iso been levied on for a story for the same publication. Ife will write "13ear ressus Birchbark," and judging from thas writer's well-known reputation in ficton, we maty be sure that he will present a pleasant and readablo tale. Mr. Moberts has a pocin in tho current Centur! manazine, which may be ranked among his best versess - Qucbec chironicie.

