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## Educational. Weekly Contributors.

The Editor begs leave to announce in this way th the patrons of the Einucational. Wembicy, that they may expect cluring the jear contributions upon educational topics of hoth general and special interests from many of the leading educators of the province.

Brienly he will state it to be that which he conceives to be best for the entire eductional interests of the province. He begs leave to heartily thank all those who have promieed to help him in any way, and respectfully solicis advice and contributions of interest from all who are engaged in any way in the work of education.
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## NORMAL SCHOOLS.

The Normal Schools, Toronto and Ottawa, will re-open Truesday, zoth January.

Education Dept., Januasy 7th, 288 s .

## The Educational

TORONTO, JANUARY 15, ISS5.

The Memorandum of the Minister of Education to the governing bodies of the different universities and colleges that are included in the proposed scheme of university confederation, which we give in another column, is the most important educational document that has appeared in our times. It is the agreement which has been arrived at by the Minister of Education representing the Government of Ontario, and the accredited representatives of the University of Toronto, University College, Queen's University, Victoria University, Trinity University, Knox College, St. Michael's College, Wycliffe College, and McMaster Hall-a basis of confederation, or agreement contemplating the establishment of one grand Provincial University, with a cluster of magnificent colleges around it, providing for the completest academic training, the highest type of collegiate influence, the granting of scholastic honors of indubitable value, and the training of the flower of the youth of our country within halls, and amid acsociations tha: will guarantee, as far as buman contrivances can guarantee, the establishing of principle, and the development of character in the best possible way. We confess to an enthusiasm which can hard:y be kept in check;-it atould not be kept in check were it not for the fear-a fear that dashes the ardor of every thought, -that, through the prejudice, or mistaken conscientiousness, or caprice, or selfishness of some one, this grand scheme, so big with possibility, may even yet fail.

As excellent feature of the scheme is its extreme adaptabieness and prasticableness. Each denomination may go on devoting its money as it pleases :- this one to the maintenance of a theological institution alone; another, more wealthy, to the maintenance not only of a theological school, but of a complete faculty of arts also. But there it will be-chnse beside the central institution; and if at any time it prefers to availitself of the resources of the Provincial University, and use the saving for any other purpose, it may do so.

But the central beauty of the scheme is that it preserves the autonomy of each federating institution, and therefore, perfectly does away with the danger of divoreing higher education from training of the moral faculties, and an inculcation upon the minds of students of the truthe of Cliristianity. Eac', college may lay wown what
course of moral instruction and Christian teaching it pleases, and demand from its students whatever examination in the subjects of this course i: pleases; and, moreover, it may der and from the Provincial Senaic that such examination shall be accepted by the Senate as an equivalent for examination in some purely secular subject, thus securing religous and moral instruction as an integral part of higher education. And in addition, each college can maintain over its students what discipline it pleases, and throw around them what influences of life and character it may possess.

Tuere can be litule doubt that the scheme, if adopted, will be tollowed by an increase of college residences. The residence system, is in our belief, necessary to the full attainment of the benefits of college lift. It. as nothing else can, develops and strength. ens character: but rightly or wrongly, ac. cording to the residential government, Knox College has always maintained its residence, and the result is that the Knox students have a character unmis. takeably loyal to their church, and to the principles of their church. . Of St. Michae's the same may be sa'd. Of McMaster and Wycliffe, though newer institutions, as far as we have had opportur ity of judging, it can be said that their founders were wise in including residences within them. Tinity, if it joins the confederation, will retain its residence system also; not merely as a convenient appendage, but as the very life and heart of itself. If Victoria comes in, it must in self preservation, erect and maintain a residence. The Methodist students at the present University of Toronto have never had the same loyalty to their church institutions, the same csprit du corts, as the students attached to other churches. The reason has been not from insufficient numbers, be: from a lack of anchorage, and from that sense of homelessness, that feeling of being adrift from authority, which the want of a residence of their own certainly inspired in them. Queen's, if it comes, will also establish a residence. An alumnus of Queen's would feel that his $A / m$ a Mater were no more if her resident system were abandoned. University College residence will have to be enlarged. To destroy it would be to deprive students who can not find entrance into some one of the denominational colleges, of the influences and training that resident life gives. It is so small that to make it pay its own way, causes it to be very expensive, while so large is the whole number of students attending that its influence is limited, and
it provokes a party feeling which neurralizes the goodit otherwise might do.

As inportant feature in the basis is the virtual promise of the Government to enlarge its support of higher education, now languishing for lack of funds. The basis makes a nore liberal provision for the teaching of subjects to be taken in University College than ever yet has been made, and the University College Staff with the University l'rofessoriat will constitute a teaching body quite worthy of the Province. The confederating colleges can each furnish 2 staff the equivalent of that in University College, and the University Professoriat will as much form the complement of their staffs, as of the staff of University Colloge.

The Senate of the University of Toronto has with perfect unanimity accepted the basis, and has pledged itself to do "everything in its power to make it a success." The words are simple but their meaning is full.

The Board of Regents of Victoria University have not adopted the scheme in its entirety, but ha: acce;ted it with amendments. The principal feature of the amendments is that the confederating colleges shall receive compensation for their losses incident to removal to Toronto. This refers particularly to Queen's and Victoria. These institulions must remember that if the Government should compensate them for their losses by buying ineir present buildings, or otherwise, they could no longer expect to enter Confederation as partners-at-will, having the right to retire and exercise once more their degree-conferring powers, which, for a while, they hold in abeyance.

But logically the position taken by Victoriais correct. There were reasons for the establishment of Victoria and of Queen's, which rose from the unfair legislation of the day. Victoria and Queen': have each a moral chaim on the Government for compensation; but if they once accept it they ought not to be allowed to retire, at their ownmotion, from the proposed Confederation, which cannot be accomplished unless with great expense on the part of the Government. On the olher hand, the authorities of Queen's and Victoria are morally bound to restore to the donors, the sums paid by them for the crection of their buildings, in every case where the donation was conditional upon the Universtty site being unchanged.

Knox College and Wycliffe College have each accepted the basis.

## Summary of News.

On the seventh it was reported that Germany wished $t 0$ exchanges Anira Pequena, and $t$ e rest of the territory Geruany clams on the east coast of sfrica, in exchange for Heligoland.

France claims the left bank of Stanley Pool, in Africa, and demands that the African Assocmation shall cede all its s:ations on the Upper and Middle Niari.

TuF Neuc. Prussiche Zaifung, in an officially inspired article, says the day is now near at hand when the Panama and Nicaragua questions, which are essentially of jinternational interest, should be regulated by an international conference like that now regulating Congo. In all that concerns Panama and Nicaragua Germany has quite as important interests at stake as England or France.

The Cabinet Council on the 7th decided to extend Bechuana frontier to the northcast and west, to include buth banks of the Fish river. This cuts the Transvaal off from the chance of German connection. The Transvaal Government is preparing to protest against Enghsh annexations in Zululand.
Tur framework of the new Congo State Constitution is declared to be based upon the principles of Engish Colonial ndministra-tion-there being a governor and three deputy governors, one for each of the proposed districts. The seat of Governmer:t will be Brussels. Fing Lenpold has already expended five millions in forwarding the work of the African International Association, and promises to bestow upon it a yearly endowment of $\$ 200,000$. During the sitting of the Conference in-day $K$ isson repeatedly expressed the desire of stmerica, that the rights of the aborigines should be respected.

Tue dispute as to the ownership of St. Lucia Bay has dropped out of sight. Bismarck docs not encourage Luderitz, who claims to have purchased the bay, to expect other than British protection.

A Britisa Congn company has been formed with a capital of $£ 2,500,000$.

Bismarch's request to the Reichstag for money to sumport his colonial policy has been refused, no withstanding his success in acquiring Angra Pequena. Hewis..es a dis. solution, but the emperor is unwilling to grant it.

I3lsmarck, in his address to the Reich. stag on the 10th, said :-" There is no:hing on the tapis that can lead to a dissension with England. I cannot see why England should ever threaten war with Germany. Our little difierences with England can always be seitled peaceably with a little good will."

The news from Karti on Jan. 6th was that the troops had accomplished the march from Korii 10 Gakdul wells, a destance of 97 miles, in 65 hours. The wells on the roid had been deceried. The natives reported that :he Mahdi was terrified at the English advance.

Lord Beresford's naval brigade had arrived, and were in go across the desert with the troops, and on arrival at Metamneh well would man Gordon's steamers. Prison-
ers said that the Soudanese had held Gak dul well till they hoard of the near approach Gen. Stewart, but that the Madhi would to mike a stand at Metamneh well.
Osman Digma has been ordered by the Madli to remain near the coast to prevent a British advance from Suakim.

TuE following telegram has been received in Londinn from Gen. Wolseley, dated Korti. Jan. 7 :-'' A strong convoy is leaving camp for Gatidul. Gen. Stewart will take another to-morrow for Metamneh, which we expect to occupy by the 15 th. If a steamer is found there we shall communicate with Gen. Gordon without delay."

On the Sth a telegram from Gen. Wolseley statel that Gen. Stewart and his force had stalted for Mietamneh, hoping to reach it by the $16!h$. Metamneh is on the west bank of the Nile, above Shendi.

General. Wolsfley telegraphed to the war nffice on the inth that he had heard from Gen. Gordon so late as the $\approx 8 \mathrm{th}$. At that time Gordon was well and confident.

Gen. Wolseley telegranhs the Prince of Wiles that he will reach Khartoum on Jan. 24. He also telegraphs to the Governinent for 3,000 troops to be sent to Suakim to operate aganst Osman Digma and open the Berber route. Wolesley expects hard fighting at Khartoum.

Gen. Stewart will start from Gakdul on Monday, the 17 h , with 2,000 men to march to Metamneh, near Shendi. The Mahdi's lieutenant onpoced to Gen. Stewart has been rein'orced by tribes sent by Osman Digma from the Eastern Soudan, rilising the num. ber of his ollowers to 8,000. The odds are not considered formidable.

A Dispatcif on Tuesday says that when Gen. Stewart's force reaches Metamneh several officers will be sent to Khartoum to consuit with Gen. Gordon on the plan of action to be pursued.

SIX thousand French troops leave for Tonquin this we ek. 6000 more in February. Gen. Courcy join: Gen. De Lisle at Tonquin to act in concert with him.

Late telegrams from China state the Chinese are hopeful of uring out the French, and of ulimately winning.

On Thursday the 8th, it was reported that Mr. Donald Cameron, of Lochicl, the great Highland landowner and member of l'arliament, had called a conference of landlords to consider the demands of the crofters. A number of landlords favour concessions.

Prince: Bismarck, who had intended going to ltaly for a rest, has been asked by the Emperor 10 remain at his post. The Emperor deems his death possible at any moment, and is certain he cannot live a year. As immense preparations have been made all along the proposed route to honour the Prince, great disappoiniment is felt.

Tue Mirquis of Salisbury, the Conservativeleader, has written a letter, in which he condemns the Government for vacillating forcign and colonial policy. The nation, he says, fiads itseif opposed by a European coali,ion, and the colonies are justly dissatisficd at the Government's failure 10 prevent Germany from annexing contiguous

## Notes and Comments.

OUR Kindergarten department has been crowded out this number.

We understand that Mr. Robinson, whom many of our raders will rensember as the Principal of Whitby Colleginte Institute, is not only manager, but editor-in-chief of the new Pieshyteriath Revicw. Mr. Robinson assures us that the success of the Reviequ is undoubtedly assured.

Miss Jean Ingelow, the author of Winstanley, was bosh at Ipswich about 1830 . She has written many tales for children highly poetical in their composition. She has also published several volumes of poems. Her poetry, which is pure and tender, deals with the affections and with nature, especially the moods and influences of the sea. Her Sonys of Seven are widely known.

We have riceived the January number of the V. P. Journal, conducted, we believe by a committee of the Science Association of Victoria College, an association composed of graduates and undergraduates of Victoria University. It is manly and outspoken in its utterances. Its tonic effect is excellent. It is largely devoted to science, but we have read with pleasure its critical articles, and espocially its article, The University Prob. lem, with much of which we agrec.

We should like to have for insertien a few good examination papers in English, especially such as would tend to make the study of Enghsh of a practical, experimental kind, and to promote personal effor: That teaching is best which induces the pupil to think tor himself; to compare, judge, discrimit ate and invent for himself; that which stimulates his imagination and arouses his curiosity. Will some of our teachers send us such papers? we wish a few for every grade of class.

With this number we conclude the series of aricles on Moral Education, fearing they may tire our readers, but sith great regret ; for we believe the book from which the aricies were taken to be of the most practical kind possible; and its method such as any teacher can use with most valuable results. We may make another extruct from it in the future to illusirate its method, but in lhe meantime we commend it most heartily to all teachers. The name is Moral Education for Schools, by the Rev. Peter Prescont. The book and its me'hod have received endorsation from no less an authority than John Bright, the celebrated Euglish orator and parliamentarian.

We have received the latest issue of the School Suppleftcith, which in appearance sur passes any paper of its kind that we know of. No journalistic enterprise in Canada has
ever had such a pronounced success in so short a time. The subscribers of the Sup. plement come from every State in the Union, from England, Ireland, Scotland and Wales, as well as from all the provinces of Canada. Messrs Eaton \& Gibson, who, by the way, are young, plucky Canadians, and not an old firm of American capitalists as some have supposed, ate thinking somewhat of moving their head-quarters to New York, to be more nearly in the centre of their territory; but we hope that they will remain in Toronto.
We especially request all who can contribute items of educational news to send them to us. What we want to get and what our readers desire is information concerning schools and colleges, and teachers of every rank. Short, crisp, fresh items of general interest. And so, readers, please send them in,-on separate pieces of paper, if possible,一with all names of places and persons plamly written. Or if you do not care to write items yourselves, clip out of your local papers any educational items of general interest that may be in them and send them to us. Any thing that will tend to bring the members of the profession into a closer acquaintance with each other, accounts of the erection of new school-buildings, the promotion or changes of teachers, presentations made by pupils, $\& c$. , \&c.,-these are the things our readers want. But be brief, send only the essential facts.
This paper, this weck, will be sent to every educator in the Province, whose name can be secured, a total number of many thousands. If all the members of this vast host could be brought to use their influence in favour of university confederation, what a mighty power it would bel But from the highest to the lowest, every man and every woman whose life is given to educa. tion has an influence that can be exerted. Public opinion is to be formed, public feeling is to be aroused. Then, too, it may be that prejudices are to be explained away. The Government and Legislature will not act unless the people will sustain them. Let then each educator do something towards convincing our legislators that public convicton and sentiment will sustain them in making the basis, or some reasonable modification of it, a substantial thing, a veritable act of the Legislature.
THE county teachers' associations in some of the States are breaking in upon their ordinary unintellectual routine of work in a most praiseworthy way. The association lays out a course of reading, for three months, for six months, or for a year, according to the frequency of their meetings. Each person taking the course is provided with a set of blanks, one for each book to be read, containing a set of questions, one set for each book, and the blanks are filled in, and the answers are either_read and valued by a committee ap.
pointed for that purpose, or selections from them are made and read and criticised in open session. The course comprises sometimes two, sometimes threc years. Tho following course has been adopted by Belmont County in Ohin:-First Year - Page's Theory and Practice of Teaching, Ohin School Laws, Green's History of Ery/ant, Trench on Wurd, The derchant of Venice, and Evangeltre. Second Year-Hewitu's Pedagrogy, Ancient History, Hamlet, Pope's Essay on I/an, selections from Bacon and Locke, and Andrew on the United States Constitution.

THE great importance of the University question, and the room which we have given to the reports of the meetings of university authorities, have necessarily excluded from this issue important matters relating to the public schools, which we hope 10 insert next week. Just as we go to press we learn, with no surprise, however, that Queen's University bas rejected the basis. To the reason assigued, viz.: that it is not good to centralize all the institutions for higher education, we do not attach much importance. In fact, we believe it not only an insufficient reason, but a wrong and untenable ground altogether. We think, however, that unless the Government can in some way compensate Qucen's for the loss of her buildings should she come to Toronto, her plain duty is to remain in Kingston. We should be very sorry, however, if Queen's would not enier the colfederation, even remaining where she is. Her representation in the senate, by reason of their nemiler, dignity, and influence, would secure for her every necessary protection. An arrangement could be made by which the University examinations could be held in her own halls. The University curriculum can, without trouble, be made sufficiently flexible to meet all just demands of an outlying college. But we confess that we cannot see how Qucen's can save herself from loss, both of money and position, if she does not join her sister colleges in building up nne undoubtedly superior institution for higher education, -that is from loss ultimately.
The January number of the Ohio Eiducational Monthly, is to hand. Its itading article is on The County' Institutc of the Futiure, by Superintendent Duff. This $\ln$ stitute of the Future, he states, will be a ses. sion of four weeks in vacation, devoted entirely to the discussion and exemplification of methods in elementary instruction, and conducted entirely by the teachers of the county. He instances certain counties where the attendance (voluntary) has included nearly all the teachers of the county. We quote his concluding sentences, which not only give the gist of his opinions, bi.t also illustrate his style, which is of that prevalent American sort which we cannot say
we should like to see common in Canada, but which at any rate has the merit of being thoroughly readable :-
To my mind these figures are significant. An institute lasting half the summer, and involving extriordinary expense and time, enrelling ten per cent. more memkers than one as free as the milk and honey or old Caman, and under the especial patrunage of the powers that make and unmake county teachers, must represent solid worth. Such an int:tue, fellow-teachers, so arranged as to give the largest amount of personal instruction in the commun tranches; with enough of the old lecture method ingrafted to furnith ample methods of gov. crmment, and to present the most improved plans of teaching-such an institute, I believe, will be the institute of the future. That this future may be speedily realized is the wish of a large boty of earnest teachers who, Tantalus like, ever thirsty, mahe the annual pilgrimage up to the unstitute waters, only to find those waters recede from them with every attempt to quench their thirst.

The remainder of Mr. Watson's article on The Value of Drazuing to the Pu'lic School P'upil is unavoidably held over till the next number. We may say that in it Mr. Watson is taking the most utilitarian view of the value of drawing ; certainly not from choice, but because he deems its value can be proven even to those who take the lowest ground in judging of any mental accomplishment. Mr. Watfon would rather have discussed the question of drawing as related to art, and therefore as being a necessary part of that higher culture by which alone man gains a knowledge of the meaning of the spiritual side of nature. Mr. Watson is one of our most effective landscape painters. Eis work has received the praise of the highest critical authorities that have seen it. He is to be congratulated, too, on his more material success, having received several commissions of great worth. He is now making arrangements for leaving Canada for a time to study amid the masterpieces of the old world.
We are very thankful indeed, both to the press and to private individuals for the very many kind words in favor of the EdUCAthonal Weekly which have been sent to us. We are no less thankful for advice tendered to us both from personal friends, and from people quite unknown to us. It is our desire to make the papcr useful to every branch of the profession and we shall be glad to receive thoughts, hints, views, statements, etc., of which we can make use to help attaining this end. We subjoin one of the notices which the Weekly has icee: :ed :-
The Eucational. Weekly.-We have teceived the first number of this paper, published in Toronto, and cdited by Mr. J. E. Bryant, late Principal of the Galt Collegiate In-Ltutc. It presents a very handsome and attractive appearance. The matter is well arranged and the contributions, both oribinal and selected, are by well-hnown and able writers on the suliject of education. The editor is frank and outspoken in defining his posiition, which is to make the whole cducational work of the Province, without regard to sectional or any other interests, the sulject of his observation and criticism. judging b) this first number we are precty safe in saying that the froucational. Werekly is likely to become the ieading suthority and censor on all matters alfecting education in Ontario. We wish it cecry success.--Guelph Alercury.

## Literature and Science.

## WINSTANTEY.

Jhan INGiscom.
Tuskiod) stonerochsare situated fourteen miles south-west of Plymouth. They are dailv aubmerset by the tide but the water is very deep aroult d then-hence they formefly were the cause of many shipurech in. Winstanley commenced the erectiun of his lisht-hume (which wan of whod) in itgot, and in 1688 it was fuitt to the hetbit of 80 feet, and the firs feet in shown. th s700 the rejeht was laised 0820 . pletely uastied in way and W'ustanley wuh it Subsequently a Mr. Rudgenl erected another tower alvo of wiod, with a stone hase. This crection was burmed in 1755. In 1759 Mr. Smeaton, a celehrated architect, compleied what was or more than a cemury known tis the Eiderstune lishithouse. It was built uphn the molel of an oak tree. In 1878 it liad become corneshat unvialile, so at to crumble with the concussion af the wives. In i83z the prevent tower was completed by Mr, Douglass.

Winstani.ex's deed, you kindly folk, With it I fill my lay,
And a nobler man neer walked the world,
Let his name be what it may.
The good ship Snowdrop tarried long;
Up, at the vane looked he ;
" Delike," he said, for the wind had dropped,
"She lieth lecalmed at sen."
The lovely ladies flocked within,
And still would each one say,
" Good mercer, be the ships come up?"But still he answered, "Nay."

Then stepped two mariners, down the street, With looks of grief and fear;
" Now, if Winstanley le your name, We bring you evil cheer !
"For the good ship Snowdrop struck-she struck On the rock-the Eiddystone,
And down she went with threescore men, We two being left alone.
" Down in the deep with freight and crew, P'ast any help she lies,
And never a hale has come to shore Of all thy merchandise.
"For cloth o' gold and contely frieze," Winstanley said and sighed,
" For velvet coif, or cosily cont, They fathoms deep may bide.
"O thou brave skipper, blithe and kind, O mariners, bold and truc,
Sorry at heart, right surry am I, A-thinking of yours and you.
" Many long days Wiustanley's breast Shall feel a weight within,
For a waft of wind he shall be 'feared, And trading count hut sin.
"To him no more it shall be joy To pace the checrful town,
And see the lovely ladies gay Step on in velvet gown."

The Snowdrop sank at Lammas tide, All under the yeasty spray;
On Christmas Eve the brig Content Was also cast away.
He little thought o' New Year's night, So jolly as he sat then,
While drank the toast and praised the roast The round-faced Aldermen, -

Ihe little thought on Plymouth Hoc, With every rising tide.
How the waves washed in his sailor lads And laid them side by side.

There stepped a stranger to the loard; "Now, stranger, who be ye?"
He looked to right, he looked to left, And "Rest you merry," guoth he.
"For you did not see the brig go down, Or ever a storm had blown,
For you did not see the white wave rear At the roch-lise Eddystone.
"She drave at the rock with sternsails set, Crash went the masts in Iwain;
She staggered back with her mortal blow, Then leaped at it again.
" There rose a great cry, bitter and strong; The misty moon looked out !
And the water swarmed with seamen's heads, And the wreck was strewed about.
"I saw her mainsail lash the sea, As I clung $\because \sim$ the rock alone;
Then she heeled over, and down she went, And sank like any stone.
"She was a fair ship, but all's one ! For naught could bide the shock." "I will take horse," Winstanley said, "And see this deadly rock.
"For never again shall bark o' mine Sain o'er the windy sea,
Unless, by the blessing of God, for this Be found a remedy;"

Winstanley rode to llymouth town All in the slect and snow;
And he looked around on s.ore and somen, As he stood on Plymouth Hoe.

Till a pillar of spray rose far away, And shot up its stately head,
Reared, and fell over, and reared again ; "'Tis the rock! the rock!" he sid.
Straight to the Mayor he took his way; "Good Master Mayor," quoth he,
"I ann a mercer of Londen town, Aud owner of vessels three.
"But for your rock of dark renown, I had five to track the main."-
"You are one of many," the old Mayor said, "That of the rock complain,
" An ill rock, mercer! your words ring right, Well with my thoughts they chime,
For my two sons to the world to come, It sent before their time."
" Lend me a lighter, good Master Mayor, And a score of shipwrights free;
i'or I think to raise a iantern tower On this rock o' destiny."

The old Maycr laughed, but sighed also; "Ah, youth," quoth he, "is rash,
Sooner, young man, thou'll root it out From the sea that doth it lash.
"Who sails too near its jagged teeth, He shall have evil lot;
For the calmest seas that tumble there Froth like a boiling pot.
"And the heavier seas few look on nigh, But straight they lay him dead;
A seventy-gun ship, sir!-they'll shoot lligher than her mast-head.
"Oh, beacons sighted in the tlark, They are right welcome things, And pitch-pots flaming on the shore Show fair as angel wings.
"Hast gold in hand? then light the land, It longs to thee and me;
But let alone the deadly rock In God Almighty's sea."
Yet said he, "Nay,-I must away, On the rock to set my feet; My debts are paid, my will I made, Or ever I did thee greet.
If I must die, then let me die By the rock, and not elsewhere;
If I may live, oh let me live To mount my lighthruse stair."
The old Mayor looked him in the face, And answered, " Have thy way;
Thy heart is stout, as if round about It was braced with an iron stay.
" Have thy will, mercer! choose thy men, Put off from the storm-rid shore;
God with thee be, or I shall see Thy face and theirs no more."

Heavily plunged the breaking wave. And foam flew up the lea;
Morning and even the drifted snow Fell into the darik grey sea.
Winstanley chose him men and gear; He said " My time I waste,"
For the seas ran seething up the shore, And the wrach drave on in haste.
But twenty days he waited and more, Pacing the strand alone,
Or ever he set his manly foot On the rock,- The Eddystone.
Then he and i'e sea began their strife, And worked with power and might ;
Whatever ti.e man reared up by day The sea broke down by night.
IIe wrought at cbb with bar and beam, He sailed to shore at flow ;
And at his side by that same tide, Came bar and beam also.
"Give in, give in," the old Mayor cried, "Or thou wilt rue the day"
"Yonder lie goes," the townsfolk sighed, But the rock will have its way.
"For all his looles that ner so stout, And his specches brave and fair,
He may wait on the wind, wait on the wave, But he'll build no lighthouse there."
In fine weather and foul weather The rock his arts did flout,
Through the long days and the short days, Till all that ycar ran out.
With fine weather and foul weather Another year came in ;
"To take his wage," the workmen said, "We almost count a sin."

Now March was gone, came Aptil in. And a sea-fog settled down, And forth sailed he on a glassy sea, He sailed from Plymouth town.
With men and stores he put to sea, As he was wont to do:
They showed in the fog like ghosts full faint, A ghostly craft and crew.

And the sea-fog lay and waxed alway, For a long eight days and more;
"God help our men," quoth the women then; "For they bide long from shore."
They paced the Hoe in doubt and dread; " Where may our mariners be!"
But the brooding fog lay soft as down Over the quiet sea.
A Scottish schooner made the port, The thirteenth day at e'en;
"As I am a man," the captain cried, "A str: age sight I have seen :
"And a strange sound heard, my masters all, At sea, in the fog and the rain, Like shipwrights' hammers tapping low, Then loud, then low again.
"And a stately house one instant showed, Through a rift on the vessel's lea;
What manner of creatures may be those That build upon the sea?"
Then sighed the folk, "The Lord be praised!" And they flocked to the shore amain:
All over the Hoe that livelong night, Many stood out in the rain.
It ceased; and the red sun reared his head, And the rolling fog did flee;
And, lo! in the offing faint and far Winstanlcy's house at sca!
In fair weather with mirth and checr The stately tower uprose;
In ul weather with hunger and cold Ti.ey were content to close;

Till up the stair Winstanley went, To fire the wick afar;
And Plymouth in the silent night Looked out and saw her star.
Winstanley set his foot ashore; Said he, "My work is done;
I hold it strong to last as long As aught beneath the sun.
"But if it fail, as fail it may, Borne down with ruin and rout, Another than I shall rear it high, And brace the girders stout.
"A better than I shall rear it high, For now the way is plain; And though I were dead." Winstanley said, "The light would shine agnin.
"Yet were I fain sțill to remain, Watching my tower to keep, And tend my light in the siormiest night That ever did move the decp;
"And if it stood, why then 'twere good, Amid their tremulous stirs,
To count each stroke when the mad wares broke, For cheers of mariners.
" But if it fell, then this were well, That I showh with it fall;
Since, for my part, I have built my heart In the courses of its wall.
" Ay! I were fain. long to remain, Watch in my tower to keep,
And tend my light in the stormiest night That ever did move the deep."
With that Winstanley went his way, And left the roch renuwned,
And summer and winter his pulot star llung bright o'er Plymouth Sound.
But it fell out, fell out at last, That he would put to sea,
To scan once more his lighthouse tower On the rock o' destiny.
And the winds broke, and the storm broke, And wrecks came plunging in;
None in the town that night lay town Or sleep or rest to win.
The great mad waves were rolling graves, And each flung up its dead;
The seething flow was white below, And black the sky o'erhead.
And when the dawn, the dull, gray dawn, Broke on the trembling town,
And men looked south to the harbor mouth, The lighthouse tower was down ;
Down in the deep where he doth sleep, Who made it shine afar,
And then in the night that drowned its light, Set, with his pilot star.
Many fair tombs in the glorious glooms At Westminster they show;
The brave and the great lie there in state; Winstanley lieth low.

## THE FAIRY LAND OF SCIENCE.

atss A. n. bucki.ey.
(Contienst from last issur.)
Then, again, you nust learn something of the language of science. If you travel in a country with no knowledge of its language, you can learn very little about it; and in the same way if you are to go to books to find answers to your questions, you must know something of the Janguage they speak. You need not learn hard scientific names, for the Uest books have the fewest of these, but you must really understand what is meant by ordinary words.

For example, how few people can really explain the difference between a solid, such as the wood of the table; a liyuid, as water; and a gas, such as I canlet off from this gasjet by turning the tap. And yet any child can make a picture of this in his mind, if only it has been properly put before him.

A!l matter in the world is made up of minute parts or particles; and in a solid these particles are locked together so tightly ihat you must tear them forcibly anart if you wish 10 alter the shape of the solid
piece. If I break or bend this wood I have to force the particles to move round each other. and I have great difficulty in doing it. But in a liguid, hough the particles are still held together, they do not cling so tightly, but are able to soll or glide round each other, se that when you poir water out of a cup on to a table, it loses its cup-like shape and spreads itself out llat. Lastly, in a gas, the particles are no longer held together at all, but they try to fly away from cach other; and unless you shut a gas in tightly and sately, it will soon have spread all over the room.

A solid, therefore, will retain the same bulk ad shape unless you forcibly alter it ; a liquid will retain the same bulk, but not the same shape if it be left free; a gas will not retain eisher the same bulk or the same shape, but will spread over as large a space as it can find wherever it can penetrate. Such simple things as these you inust learn from books and by experiment.

Then you must understand what is meant by chemical attraction; and though I can explain this roughly here, you will hare to make many interesting experiments before you will really learn to know this wonderful fairy power. If I dissolve sugar in water, though it disappears it still remains sugar, and does not join itself to the water. I have only to let the cup stand till the water dries, and the sugar will remain at the bottom. There has been no chemical attraction here.

But now 1 will put something else in the water which will call up the fairy power.


Ifere is a little piece of the métal potassium, one of the simple' substances of "the earth; that is to say, we cannot split it up into other substances; wherever we find it, it is always the same. Now, if I put this piece of potassium on the water it does not disappear quietly like the sugar. See how it rolls round and round, fizzing violently, with a blue flame burning round it, and at last goes off with a pop.

What has been happening here?
You must first know that water is made of two substances, hydrogen and oxy gen, and these are not merely held together, but are joined so completely that they have lost themselves and have become water; and each atom of water is made of two atoms of hydrogen and one of oxygen.

Now the metal potassium is devotedly fond of oxygen, and the moment I threw it on the water it called the fairy "chemicallatirac:ion" to help it, and dragged the atoms of oxygen out of the wathr and joined them to itself. In doing this it also caught part of the hydrogen, but only haif, and so the rest
was left out in the cold. No, not in the cold : for the potassium and oxygen made such a great heat in clasting together that the rest of the hydrogen became very hot indeed, and sprang into the air to find some other companion to make up for what it had lost. Here it found some free oxygen floating about, and it seized upon it so violently, that they made a burning flame, while the potassium, with its newly found oxygen and hydragen, sank down quietly into the water as potash. And so you see we have got quite a new substance potash in the basin; made with a great deal of fuss by chemical attrationt drawing different atoms together.
When you can really picture this power to yourself it will help you very much to understand what you read and observe about nature.
Next, as plants grow around you on every side, and are of so much importance in the world, you must also learn something of the names of the different parts of a flower, so that you may understand those books which explain how a plant grows, and lives, and forms its sceds. You must also know the :ommon names of the parts of an animal, and of your own body, so that you may be interested in understanding the use of the different organs; how you breathe, and how your blood flows; how one animal walks, another files, and another swims. Then you must learn sometning of the various parts of the world, so that you may know what is meant by a river, a plain, a valley, or a delta. All these things are not difficult, you can learn them pleasantly from simple books on physics, chenie.. $y$, botany, physiology, and physical geography; and when you understand a few plain sciemific terms, then all by yourself, if you will open your eyes and ears, you may wander happily in he fairy land of science. Then wherever: ou go you will find:
"Tongues in trees, books in the running brooks, Sermons in stones, and good in evergthang.'
(To be continuct.)

## Educational Opinion.

NOTED AUXILIARY EDUCATION. 1STS.

## H. -IION. AND RIGHT REV. BISHOP SIRACHAN, D.D. <br> 2.-Bishop Stiachan as an Educator.

Bisnop Strachan, though not a versatile man, was in many respects a many-sided one. In lus day he had to do with all of one great public questions which came before the country. On many of them (and in their setlement), he has left the impress of his actuve mind and persistent will. This was particularly the case ir regard to those questions which more decply touched the best interests of Canadian life, in its religious and social aspects.

And it was a singular yet characteristic fact, that the more he was opposed by those who differed in toto from the policy of his acts, the more strenuously he persevered in his purpose-even against the wiser counsels and calmer juclgment of many leading public men of has time. But this opens up a question which it is not my purpose to discuss.

Dr. Strachan, as I have said,--although not versatile,-wasa nany-sided man. And this was quite true in regard to that department of his career whinch it is the purpose of this paper to illustrate. He was buth an educatur and an educauonest. In the furmer capacity he was successively the pari-h schoolmaster, near St. Andrew's, and ai Kettle, (Scothand). He had there as a pupil the atterwards celebrated Sir David Wilkie. In Canada, he was first a tutor in the family of the Hon. Richard Cartwright, at Kasgston ; then master of the Cornwall Grammar School, at which most of the distinguished public men of the Bishop's later years were educated. Subsequently he was Chairman of the Provincial Board of Education at York. He was named by the late Hon. Peter McGill as first Principal of McGill College, Montreal-although he never was in a position to undertake its duties. He was afterwards President of King's College, Toronto, and subsequently President of Trinity College University.

In his capacity as an educator, Dr. Strachan was considered one of the most successful teachers which thas Province had yet produced. His aim was to call into active play the varied menta! powers of his pupals, and to stimulate any desire which they had to excel ini knowledge and virtue. One of his earliest brochures is a Letter to his Pupils, and was in the nature of an appeal of behalf of the Christian religion. This, he inscribed, "as a mark of esteem to Mr. Andrew Stuart and Mr. James Cartwright, students. at law." This letter was printed at Montreal, in 1807, in the quaint old type of the time. It is evidently a warning appeal against the infidelity and excesses of the French revolutionists. In the opening portion of his letter be uses this emphatic language, (I make the quutation not only to show the character of the warning, against extravagant and irreligious zcai, given to his pupils, but also to exhibit a charac-teri-tic specimen of Dr. S rachan's vigorous style of writing in his younger days):

secuting, with violence; . . . these enthu-sa-ts have nut ouly rejected the doctrines [of Carinimis y] tut the moderator, the chanty, the pieve it enjouns: ${ }^{\text {a }}$. they dare to sneer and haugh at servous things, and utter trrible blasphemies withut understanding them."

With a view to aid his pupils in the study of Arithmetic, Dr. Strachan prepared and published in 1809, "A Concise Introduction to P'ractical Arsthmetic, for the usi "f Schools." extending to 214 pages. In the introductory preface to the book, he said:-
"On my arrival in Kingston about ten years ago to superinkend the education of a select numher of pupils, I experreacad much inconvenience from thic waut of schwel bowks. To supply this defect, I was uniler the necessity of compiling several treatises on different subjects, and among the rest, the following on Anthumetuc." $\$$.

We thus learn incidentally that Dr. Strachan was amongst the first, if not the very first compiler of school text books in this Province.

It may be of interest to teachers of the present day to learn something of Dr. Strachan's method of teaching arithmetic. He explains it in the following words:-
"In a new country like this, a variety of hranches must be zaught in every re:pectable school. Young men possibe are anxious to get fornward as f.ist as possible, and even those destined for the learned professions are seldom allowei the time requisite for acqu:in! the knowledge previously nece sary. These considerations jaduced me 20 surn my thoughts to the discovery of sume sure, and, at the same time, expedatious methexl of teaching arithmetic. This object I have accomplished wih a much greaier degree of success than 1 dared to promise mysell:-
I divide my pupils imo sepa ate classes according to their progress. Each class has one or more sums to pioduce avery da, teatly wrought upon tueir slates. The v. . $\therefore$ is carelully examined, after which I commanil every fiture to be blotted out, and the sums to be krought under my eye. The one whom 1 happen to preca upon urst gives, with an aunible voice, the rule, and reasons for every step, and as he pruceeds the rest silently "ork alung with hum figure for lizule, but ready to corret lim if he blunder that they may get his place. As soon as this one is finished, the noik is again bloted out and another c.lled upon to work the question aloud as before, while the rest proceed alung with hum in suence, and so on round the whole rlass. . . . This meehod of teaching arithmetic porsesses this impirtant advantage, that it may be pursued withuut inter. ruphing the pupils' progres in any wher useful s udy. The sime method of teaching A'gebra has be en used with eefu. 1 success. such a plan is certainly very laberious bue it will be lound succe ssful, ant he that is anxious to spare labour ought not te be a fublic teather."

Desiring to give a local interest to the exericises in his book, Dr. St achan gives several examples froa، Can. ian subjects Thus a question in addition reads :-
"From Qu bec to Montreal is 180 miles-from thence to Ki .gstion 200 -froin thence to liork 149 -fiom thence to Ningara 78 miles-from ther:ce to Detron 210. Nequired the distance from Quebec to Detroit. Answer- $\mathrm{Sin}^{2}$ miles."

Again, a question in multiplication reads:-
"The distance from Queliec to Montreal is 180 miles : supposing the road 17 yards bruad, how many 'quare yards dues it contain? Auswer -5,3১5,60 yauds."

After Di. Strachan removed to York, forty-two of his old pupils united in present-
ing himin 1833 with a silver epergne valued at $\$ 1,150$, and an address of great warm-1h and affection. It was designed. as the donors stated, as "a memorial of their grateful recollection of his anxious and unwearied efforts to improve their minds, and to impress upon them sound moral and religious principles, and of the sincere and steady friendship whicin he has manifested for his pupils in their progress through life."

It was to the truth of this latter state. ment that the Bishop owed his unbounded influence over the leading men (chirefly his own pupils), by whom he was sur rounded du-ing the must important perind of his life, and through whose aid he was enabled to carry out many of his projects -some of them distasteiul to those not connected with his church, and even to many who were.

The principal signers of the address were Sir I. B. Robinson, Sir J. B. Marauley, Very Rev. Dean Bethune, Right Kev. Bishop Bethune, Hon. Chief Justice McLean, Hon. Justice Junes, Hon. W. B. Robinson, Hon. G. S. Boulton, Rev. W. Macaulay, Judge (George) Ridout, Surveyor General Chewitt, Col. Gugy, Capt. Macaulay, R.A., Inspector General Markland, Sheriff Mriean, Mess-s. T. G. Ridout, P. Vankoughnet, S. P. Jarvis, J. Radenhurst, K. G. Anderson, R Stanton, and others.
I shall refer to Bishop Strachan in his capacity as an educationist in my next paper.


SHORTHAND AS A SCHOOL STUDY.

## shcono parbr.

In my first paper (Jan. I) I used the term Shorthand as defining the method of representing the sounds of English words. This is mother way of saying that the letters do not, as a rule, represent the sounds. The statemen: implies, however, that we muvt carefully ascertan the precise sounds to be represented: and with this point-phonetic analysis-I propose to deal in the present paper.

In order to ascertain the sounds in a word, the word must be pronounced siowl;, and each element noted as sounded -the silent letters iucing lost entirely to the ear, as they should be to the eye. Dut these redundant letters being present to the eye of the pupil, that unsophisticated individual naturally infers that they mean something; and until he be taught that they do not, he will be confused and confounded in his endeavor to ascertain their precise significance. Therefore, every pupil should be taught at the very bexinning of his studies that the present A B C alphabet of 26 presumptive, but of only
-3 actual working, letters is defective, and consequently that there are many things that are contradictory and abourd in cur orthography. If I had $m y^{\prime}$ way, I would give the pupil something in place of the three letters I take away, $c, q, x$; and add to his stock a sufficient number of new letters to thoroughly furnish hum for what should be the smple task of representing on paper what he so easily souncos with the organs of speech. But if this radical work be not atempted, let the teacher at least be candid with the bupil in stating the deficiency in the alphabet ; and let him also point out to the pupil the important fact that the deficiency being chiefly in the unobstructed or vowel elements, the present insufficient serits-a, $c, i, o, u$, with sometimes $z \prime$ and $y$-are overburdened with work, and must double up and help each other in such various ways that the reader is bewildered.

I have been not a little amused at the answers given by pupils of common schools, by pupils of high schools and collegiate institutes, and by adults who had left school, to the questions, "What is a vowel ?" and "luat is a consonant?" I have heard a consonant defined as, "A sound that cana,ot be sounded alone," and as "A sound that cannot be sounded aloud." These definitions are both contradicted by sounding, first as a single word, then as phonetic elements of the word, the following : -

$$
\begin{aligned}
& \text { fetch } \\
& \text { fetch } \\
& \text { f.e.tch }
\end{aligned}
$$

Or, to reverse the process, take this example:-

$$
\begin{array}{r}
t \\
a t \\
\text { rat } \\
\text { rats }
\end{array}
$$

Pupils will be able, after such an exercise on simple words, to make up for themselves better definitions of the vowel and consonant, than they can learn frum the book merely; for in the one case they know the reason for the definttion, while in the other they luarn it as a dead defimition oniy, without its living subject.

I think it is better to begin without books or definitions, and teach the puphls to observe the motions of the vocal organs in producing the sounds of simple words. Dr. Forrest, of Bradford. terms this th: toni. method. let me give a simple illustrative lesson on phonetic analysis, f.r I presume that some who read thest p.opers are not teachers, and some teachers woo read them have not had the advantage of having been tramed in the phonic method of reading, which is now, happily, becoming general.

I write on the boards the letters CAT, and ask, How many and what sounds are here represented? The answers will be various, if the pupils have had no previous training. The first letter-See-will not
sugrest the hard sound it represents. But at hast some pup.l mure briltant than the rest gives the correct sound-the guttural $k$, an olstructer sound. The next is a free sound, it -not ini. The third sour tis the dental $t^{\prime}$, an obsimeted sound. We have thus the two dasses of sumds-free and ofisfructed; and these terms would, I tlink, convey to the pupil a much more accurate idea, be much more easily remembered, and much more suggestive, than the abstruse terms rentels and consonants. The pupils who gave the answers I have quited had commenced at the wrong end-they had learned the definition befure understanding the thing defined.

Phonetic analysis is hard on the pre ent spelling; but so much the worse for the spelling. Encourage your pupils to analyse,-explaining to them, as best you can, the inconsistencies between the sounds and" the lexicographer's method of representing them, and your pupils will become observant, and wil take a lively interest in learning to read, to spell, and to compose. This interest, I take it, is the foundation of education.

My own boys--the elder a little over five years, the younger not yet four-have been greatly delighted in learning, in my odd moments, the clementary sou ds used In speaking English. Having mastered these without secing a book or knowing anything about letters, I introduced the Phonetic Primer, compiled by Benn Pitman, and they very readily and rapidly learned to associate the signs with the sounds; so that during the past four months, with no regular lessuns, and scarcely any opportunty of seeing the book except during the brief period of instuction, they can read sentences. giving the precise sounds of the words; and better still than that, they have such a keen appetite tha: they are continually asking for " more." They are analysitig, comparing, pronouncing all the letters they see, and are practically teaching themselves to read.

I am aware that educationists have various methods for teacting to read; I mention this case as an argument for the analytic method, and as an illustration of what all students of phonetic shorthand must do if they would learn the coveted art. If the children in our common schools were taught the gunds of their language, the way would be very easy to the introduction of simple strokes and curves, dots and dashes, for the representation of those sounds. Then phonography as a school study would so strongly commend itself to both pupils and teachers that we mught hope for its general acceptance as an educational medium and method.


## TORONTO: <br> THURSDAYY, JANUARY 8, : 85.

THE MODDEL SCIIOOL SYSTEM.
When Mr. Crooks became Minister of Education in 1876, he determined to make provision for giving a certain amount of professional training to all who wished to become teachers. As about one thousand candidates for the teaching profession offer themselves each year, to have provided sufficient Normal School accommodation for this large number would have necessitated the buildiag and equipment of two or three additional Normal Schools, which would have involved a cost much greater than the country was ready to provide for. Again, the bringing of the students from all parts of the Province to four or five centres would have laid a heavier burden upon them than miany of them could conveniently bear. The alternative was to provide for the training of teachers of the Third Class in each county. To do this he had either to erect separate schools for this purpose or to utilize those in existence. The latter plan was the most feasible one, and had the additional merit of being far more economical. Accordingly, in 187\%, one of the leading public schools in each inspectoral district was constituted a Model School. An annual grant of one hundred dollars was given to each of these schools by the Government and the same amount 'by the county council in which the school was situated. Boards of trustecs were asked to provide a separate room for model school purposes and in sume cases an assistant also was provided to relieve the principal for a portion of each day. In most cases, however, no assistant was furnished, and the principal was obliged to deliver his lectures between eight and nine o'clock in the moming and four and five o'clock in the afternoun, and to have the . general oversight of the work of the teachers-in-training during the day in addition to his ordinary school work. When we consider the large amount of extra labour performed by the model school principals, and the spirited and faithful manner in which they discharged the duties of their new position we cannot award them 100 much praise, for their efficient service in making the new scheme a success. In many cases the remuneration received by them was notatalladequate to the labour performed. For five or six
years the work went on in this way though oftentimes occas:oning considerable interference with the regular work of the school; but on the whole, Mir. Crooks' moacl school system was a great and admitued success. The public school inspectors throughout the country thoroughly endorsed the system, and by their co-operation helped to make it effective; while the working of the schools was made uniformly efficient by the visits, inspections and lectures of the present Minister of Education, the Hon. Mr. Ross, and Mr. Tilles, the present Inspector of Mudel Schools, who were, from year to year, appointed by Mr. ('rooks to act as inspectors of the model schools, although they were never permanently appointed. These sentlemen did much to popularize the system and to remove any friction that could be dis. covered in its working, by conferring with county councils and boards of trustees and bringing these important curporations into sympathy with the schools within their jurisdiction.

More recently several important changes have been made in the regulations. The grant to each school has been increased to one hundred and fifty dollars from the Government and one hundred and fifty from the county. The teachers-in-training are required to pay fees. $A$ separate room for model school work not previously in all cases provided has been made imperative. The principal is to be relieved two hours a day from his ordinary work. In some schools a more liberal policy is obtaining ; an assistant is provided to relieve the principal during the whole of the model school term. The plan should be adopted in all schools; for where it is adopted the principal can give to the teachers-in-training what time and attention are necessary. He can be present in the room while they are teaching, and assign to them their marks for their work, thus, probably, being able to give a inirer estimate of its value than could be possibly done by his less experienced assistants; he can also, where this plan is adopted, reduce the disturbance of the ordinaty school work to a minimum, and give necessary attention to the general. oversight of the whole schoul. In fact he can still be the principal of his own school as well as prucipal of the model school. Of course the revenue derived from the model school should be amply sufficient to provide for this, and if it be
not large enough at present it should be increased, either by raising the fees of the teachers-in-training, or the grants to the schools from the government and county.

Our model schools are doing a must important work. The rural schools, many of which canmot afford to pay for secondclass teachers, that is, teachers trained at the normal schools, must continue to be large ly supplied by third-class teachers, who would be without any professional training whatever were it not for the model schools. The benefit to the entire community conferred by the model schools is so great and so evident that we feel sure that an increased grant to make them still more efficient would meet with general appigval. Not only should boards of trustees provide an assistant but they should also be enabled to add to the ordinary salary of the principal a reasonable sum for his extra services in performing the higher work of his model school principalship.

We believe some boards have not as yet made any provision for the relicf of the principal. This should be no longer al. lowed. The Government in compeling teachers-in-training to attend these schools, forcing them to pay fees, and putting them to other expenses is morally bound to sce that the schools are efficient. The good that they do is sufficient excuse for incurring any greater expense in their favour if it be necessary. While if the authorities of the model school do not comply with the regulations on the ground that the experse of them is greater than the income receiven, and at the same time the school gains nothing from the addition of a model school department to it, then the Government should see that 'the ground for this complaint is removed.

When these schools were established the course of instruction ras begun with lectures on the theory of education and school management, and the teachers-in-training began to teach at once under the direc. tion of the assistants of the schools. This caused parents to complain that the progress of the children was retarded, and, considering the inexperience of the students, the complaint must have been a just one. By the new syilabus issued last year we see the work begins'with teaching by the principal, who illustrates his theory by actual practice; and the teaching by the students is limited to the tesiching of small selected classes in presence of the
principal for the first hee or six weeks of the term. By this means the students are pretty well prepared to do satisfactory work before they assume the duty of teaching a division. This is a wise change, and will meet much of the criticism heretofore passed upon the model school system.

The examination at the close of the term is placed in the hands of the county boards as formerly, but it is to be conducted in accordance wih departmental regulations. Papers upon the theory and practice of education, upon hygiene, and upon school law are to be prepared by the Education Department, but the answers of the candidates are to be read and valued by the county boards of examiners. Each student-teacher must satisfy the Board of his knowledge of the subjects laid down in the syllabus and, in addition, must satisfy the board of his ability to teach. In coming to a conclusion on this matter the board will be aided in their judgment by the report of the model school principal.

Satisfactory as the model school system would be were its provisionscarried out, and the efficiency of every school secured by the slight increase of grams mentioned above, there is one defect in it. The tern of thirteen weeks occurs but once in the year. A student-teacher who at the end of the term fails to pass the examination, has' to wait a whole year for an opportunity to atlend again. The knowledge of this hardship has probably caused -many county boards to deal very leniently with candidates who were insufficiently prepared to receive a license to teach. As a matter of fact very few candidates are rejected at the terminal examinations. To institute a second term for the few reijected ones would be an expense and trouble disproportionate to the good to be secured. But if the Department, upon the reception of the reports of the different county boards, and having reference to rejected candidates and the counties in which they resided, would appoint - for a cerain centrilly situated model school a second ecim, to commence in the following January, at which the rejected studeni-teachers from the various surrounding countics might attcul, allowing ' to that schnol the usual grant, and coilecting from the counties concerned proI portional parts oi an equal grant, then thëser rijected students could attend with
no more than a just inconvenience considering their previous faiture, and have a second opportunity of reaching the required standard. A candidate rejected twice should not be allowed to try again.

In this way the local board of ex. aminers would hase no eacuse for undue leniency; the candidates would suffer no hardship, and the additional expense would be trifing.

In our opinion there is no more important constituent of our educational system than the model school; and Mr. Creoks will long be held in honour for the sagacity which led him to conceive it, and the skill which enabled him to put it into actual being.

## Table Talk.

PaUl. H. Havie is called the "Longfellow of the South."
Grefn's History of the EEnglish l'cople is being translated into Suedish.

Tuf proposed expedition of l'rof. N'ord. enskjold to the south pole has been postponed until 1887.
The Century's "war articles" have caused its circulation to mnunt up near to the second hundred thousand.

Hakrek lbros. will publish this present month the biography of Gicorge Eliot, wntien by her husband, Mr. J. W. Cross.

A тim-wieki, newspaper, the Continemfal Eagoros, has appeared at Dresden. It is the only English newspaper in Germany:

Mr. AUSTIN Donson, has compleicd a volume of selections from the essays of Stecle. . The Clarendon f'ress will issue it.
J. Dabitn Javi., IR. N., has edited the Firs! l3ook of Euclid for the use of junior pupils, in a volume of isi pages, each as large as those of the Euccational We:ekzy.

Romart j. Burderte, the humorist, has ceased to write for the liurlinglon HarckEyc. He will conmihute parigraphs and verses to various newspapers, and lecture.

Ir is announced that the Governments of Belfium and Holland are about to form a litciary academy, to consist of lorty mem. bers, hall of whom will be liclgian and half Dutch.

The B1ackwoons publish The Golden Primer, by l'roiessor Meikicjoln, with itIustaations by Walier Cranc. Words are taught instead of leiters, and the artist's part of the work is a principal feature.

Mik. H. M. StaNimp the African cxplorer, is about to issue a new book. In is he says that Gen. Gordon is not and never has been in any rianger at Khartoum, and that he has three avaitable avenues of escaic.

Tus books primed in the Snuth during the war are now in demand among collect. ors. One of these was a spelling-brok prinied on common wall paper. Another, more ambitious, was illusirated with the old trade cuts found in 'newspaper offices,
producing a comical effect. Upon the title page is the legend, " Printed in the fourth year of the war of Intiependence."

Next to Mr. Froude, Mr. Mallock is the finest master of the colder style of English. His worst literary enemy cannot helpadmuring the grace, the distinction, the consum. mate power of selection which marks nis prose. As a writer he stands high among the highest ; as a thinker lie is-well, he is Mr. Mallock.—Vanity Fiair.

Mr. Gladostone's oratory is-ats for that matter all oratory is-lite reflection of the insellectual beirg of the orator: It is labored and lengthy, because the mind and brain, which furnish the tongue with language, are so keenly appreciative of the afficultas which may sughest themselves to hearers. If Mr. Gladstone seldom to:ches a theme without adorning it he never touches a theme which he does not for the immediate purpose in hani exhanst. His oratory is didactic, homiletic, besceching, commentatorial, and microscopically minute, because he does not forget how tardy the process of conviction is, and l.ow many ubstacles must be disposed of before the desired result is obtained. It is not long since one of his collcagues gave an account of the difference between his own oratorical method and that of the Prime Mlinister. "When," he said, "I speak I strike across from headland to headland. Bu: Mr. Gladstone coasts alung, and whenever he comes to a navigable river he cannot resist the temptation 10 explore its source." All the dissertations on rhetorie since the world began, from Aristotle to Cicero, Tacitus, and Quintilian, down to Whately, Alison, and Arnold, may be scarched before so happy and ierse an illustration is encountered. For the reason embodied in this figurative definition of two oratorical schools, some of Mr. Bright's single speeches are beller than anything of Mr. Gladstone. Yet it may be doubied whether there is anything finer in nincteenth-century oratory than Mr. Gladstone's impromptu speceh on Mr. Disracli's budget of 1853 . or ihan his peroiation before the division on the second reading of Lord Russell's reform bill was taken in $156 G$. In the same way his tribute to the memory of Lord Beaconsficid in 1SS: was not only a masierpicce of taste and judjment, but of that peculiar class of orainrical composition to which it belonged. It also furnislied a remarkable illustration of Mr. Gladstone's felicity in quotations, an ornament of debate now practically obsolete. On the whole Mr. Hayward's estimate of Mr. Gladstone as a speater leaves nothing unsaid :-"It is I:clifise first, and all the rest nowhere He may lack Mr. Bright's im. pressive diction-impressive by its simpii-city-or AIr. Disracli's humor and sarcasm. But he has made ien eininenily successful specches 10 Mr. I3right's or Mr. Disra=li's one. His fon: is crer in she stirrup; his lance is ctigr in the rest. He throws down the gauntict to all comers. Kight or wrong, he is aluays real, natural, carnes!, unaffected, and unforced. He is a great debater, a great parliamentary spaiker." He is also an eminenaly persuasive speaker, and that explains uliy he is less condensed than Mr. liright. There is no writer the tones of whose voice is easicr to hear than-Mir: Gladstone. There are few speakers whose specches it is less satisfactory to read. Yet nothing is more certain than that if Mr. Gladsione's oratory were beiter literature it would have been lest frisifful of tesulise The sijle is the man. - Fortnizitily Rericeu.

## Music.

Mdme. Patrits appearance in "Semiramide" at the New liork Academy of music no: long ago drew one of the largest audiences of the season, hundreds of people being turned away from the dours. Colonel Mapleson in epply to some critics who complain that he never gave an opera of Wagner"s, and "did nothng to educate the people and eievate the standard of taste" is reported to have sadd. "This is a fine phrase ; but 11 means far notices and lean houses, happiness to the long-hared amateur musical enthusiasts, and mosery to unpaid artists. It means a halo of giory round the manaser's head, and an aching vord an his pocket-bouk." The Americans are a practical, sensible people. Alter they have worked hard all day they don't want to go to a musteal night schoul. They want to be pleased, and thes prefer the melodies of the liatian composers. I have given all Wagner's operas in London, under the direction of Wa;ner himself, and wish Hers Richter as enncuctor. My share of loss on the Wagner season was over £5,000, which was only half the l.,ss, as I had a partner. That cxpertence cured me of my desire to elevate the public taste.

In regard to woman's sphere and work in music, inierpreta:ion rather than composition should be your aim. anything remark. able in the way of creative art has not cmanated from lidy-composers. Your work is rather to expound. I need not try to recount to you the names of illustrons female exponents of song and of instrumental musir, for 1 should detain you here a long time in the atempt, bun I may remind you of three of the preatest artistes in this, or any other age, Mdme Goldschmidt (the illusintous Jenny Liad), Adme Schumainn and Mdme Norman- ié euda. You ought to play weil, or perhaps only to yoursel:es. And listen well, listen to every puint ; try to folluw the modutation*, the furm, to solve the composer's meaning. If you fall io understand mustc of the best masters, rest assured the fiturt is yours and not theirs. As in musir, so in other matters, humitity is generally to be found in proportion to the anount of master possessed. $\geqslant * *$ Another way to and the great advance of which I speak, rests in great meanure with those who may be pathists or vocalisis ; 1 mean in the selection of music. In this respect there is still a very great difference in the l3ritsha and German stiondard. The amoum - firash played and sung: in the hime circle here, and in America is incalculable, and this alone is a great hindrance to the spread of pure ari. This low level is nut reached by uar pubhes in any are bua muse, wheh siall auracis the unany for us weakness rather than for its strengith. Andit is very much in the power of lady instrumenalisis and vocalists to improve a siate of thiniss so discecditable to national :aste by more adorsed and judicious selection. O e cause that has frequenily prevenied men from perceiving: pare and mellectual beaus in music may be sraced to their hearing, cienin: afiet cecning, poor composatums, indiffercnils performed. No wunder thas in such circum. stances many men of intellecs are diven to in conc'usion that the hughest situe in domesuc music is io promoic conversation.-

 of 13omen.

## Drama.

A London correspondent in the New York Nathon thus criticises the elaborate realistic scene-making, now so much in fashion, partly it must be said, however, on account of Mr. Henry Irving's undoubted success in this respect. The occasion of the criticism was the first appearance of Miss Mary Anderson in fulice at the Lyceum in Lon.lon tately: :-AE a spectacle, merely, the recent revival tell shott of Mr. It ing's presenta jun of the play. It was impossible to help feeling that the efforts at accuracy had hindered the artists more than that they were likely to help the public. Or perhaps it would be truer to say that the great attention conspicuously given to manue details, whether of architecture, of costume, or ol stage arrangement, did more harm by drawing off the attention of the public from the real and permanent interests of the play, than they did good by giving in the specta:or's imagination a local habitation to the story which, of all Shakespeare has left us, stands perhaps least in need of such assist. ance to reach men's hearts. The force of archroology can probahly go no further than in this revival: if it makes the attempt, the playgers who go to the theatre to see acting will be inc.med to beg for a judicial sep:rration between the display of scenery and the display of dramatic arr. The former has now reached such a poim of elabora:ion as to deserve a representation by utself: the secnes might be exhibited one by one, while a genIleman with a wand pointed out their merits, extolied their ingenuity, and defended their innovations. Subsequently the play might be acted before a plan cartain. Passibly the stage-carpenter, lar more than the artists, is to be blamed for the irritation which prompts such surgestions as the above, for viher revivals, not much less elaborate. have roused no such fo elings. During the presen! performance whe e "sess" suddenly turn inside ous, solid masonry dissotues in all directions, and turniture glides mysteriously across the stage, until, instead of the atmosphere of Verona, one comes t. believe onc's self in a city of the srabian Nighiss, whicre palacess sping up and vanishiske mushrooms. It is simply impossible to preserve the spirit of the play under such unsteady surroundings, Fur instance, after the impressive scene (act (V., seene j) in the Friar's cell. "hich is brought 10 a close by Romev's words-
" But that a joy past joy calls out on me,
It were a artief, so brief to part with thee"the "Farewell" is almost saketh out of his mouth by :he scenc-slaffer's whistic, and she whole stifucture of masonry, stone steps, iron gates, and all, revolves and iuists and wriggles until, just as the spectator is compel ed to urn away for giddiness, lo? there emerges Jafict's chamber and balcony. A minute bater, afier the exquisite and ahrilling seene between the lovers, all whose

## " - whus shall seric

For swece diccourses in our ime to come," The whistle shricks agioun, and the balcony: carrac Jaure budily out of sight. Laiale on. ponumas is there for what culefidge cads the "spiritual visson," where " the inereca. iernai senses oi secing and hearing" are so fully eccuited; and litile hope of it will there be unul the stase managers realize once more the absolute truth of his words, that " the principal and only fenuine cxatemens ought to come from within."

## Art.

The University of Leipsic has conferred the degree of "Dr. Ph." on the well-known Capellmaster, Carl Reinecke.
Tine Royal Conservatory, Leipsic, has been presented by a donor who desires to remain unknown with the sum of 300,000 matks for the erection of new premises.

TuE portrait of the Marquis of Lorne, painted by Millais, and presented by the Marquis to the National Giallery at Ottawa, has arrived. The painting is valued at §5,000.

Prince Tonlonis is forming at Rome a splendid museum of arts from the masterpieces of Greck sta:uary scattered throughout the world, and will present the collection to the city.

Tue International Exhibition int Antwerp, to be opened ir May next, will include five sections:-(1) Education, School and Industral Art; (2) Industries; 13) Navigation and Commerce, Fisherics and Pisciculture; (4) Electricity ; (5) Agriculture, Forestry and Horuculture. This will be separate from the exhibition of painung, sculpture, architecthec, and engraving to which arusts of all countries will be invited to contribute.

THE vaiuable paintings liclonging to the cstate of Mr. Thomas G. Appleton will not be sold, althoug' his furniture and bric-abrac will. He bought some nuble cxamples of Jean lirancois ilillet's brush-work when Mille: was so latile appreciated as to be compelled to beg bread for his children. The taste for Millet's pictures was first awakened in this countig by the examples imported by Mr. Appieton and the late Mr. Willam M. Hunt.

It is a well-known tact that during the later years of his life Turner was unable to sell a large number of his pictures, alihough he seldom ashed for them a higher price than the modes: 200 gunncas, which was considered in those days a sum of money considerably bejond the market vaiue of the artist's work. A certain Scotch gentlemnn named Monroe, a famuous collector of picwures, enjog ing an income of from $\{3.500010$ f3o.000 a year, gicatly admined furner's renius, and finding him one day sitting solitary in his gallery; surrounded by some of his finest "orks, for which he had tried in vain to find pureliasern, Munroe suddenly deiermined is make the arisist an outer of a cersain sum for the whole collection. "Let me have ath these." he said. "and I will write you at once a dralt for $\underset{\sim}{f}=5.400$. Will you aisec tithat ? 7 urnee apprired not ahogether displeased at this o::cr, but told his triend to goand walk abons the sureets for haif an hour or sn, and at the end of that tume come back for his decision. Ihis Monroe accordingly did, but at the end of the half hour, greaty to his disappo:ntment, Tumer answered bim in the negatave, relusing to part with the pictures cien ior a sum which at then sume would be considered at iery large one Eught or nine of Turncr's fincst wolks ucre amon; those which Mr. Monioc would gladly have purchased wihh his $f=5.000$. but as these ideniceni pictures have since become the property of the Naisonal Gallery, the admirers of Tarner ush no doubs rejuice that the Scoich col.ccior "as so unsuccessful in his gencrous bid. - Pad Mfall Buadict.

## Practical Art.

## PERSPECTIVE.

## SEGOND J'APKit

There is perhaps not one of all who may read this, but has at some time stood in the centre of a railway track looking straight ahead in the direction of the rails, or at the end of a street looking down it, and noticed how all lines running in the direstion of the street or track appeared to approach one another, even to meeting or vanishing on the horizon. This apparent convergence of lines is the important fact upon which the Art of Perspective is based. It may be simply stated thus: that lines, according as they are distant from the spet tator, seem to become smaller. Were it not for this, everything would appear as large at two hundred feet from the eye, as at ten feet, and our only idea of distance would be obtained by the interposition of the atmosphere which, not being a perfectly transparent medium, because of the vapor and smoke held by it in suspension, would render objects more or less indistinct in proportion to their distance.
In the following illustrations the nirst (figure 2) is an elevation of three upright poles equal in length and at different distances from $E$; the other (figure 3 ) is a plan of three ties of a railway track, and the relative lengths of the lines tinat would represent the objects, are shown in both cases on P. P.


It will be seen that the pole and tic at the greatest distance is represented by the shortest line.

By way of explanation it may be stated that an eletation of any object is a drawing of the side, showing it as it really is, while a plate is a drawing of the inp, made in the same way, and the eye of the spectator is sup. posed to be over every portion of visible surface at one time. In perspective the cye is supposed to be stationayy, and the drawing shows the object as it appicars, not as it is.

Now in the case of the railway, it is seen that the lines of the track sunning in the direction in which we look, appear to vanish
at a point on the horizon. This point is called their vanishing point (V. P.). If we turn and look towards a new point a little to the left of the former one, the direction of the retiring lines is not changed, only their vanishing point is to the right of our new position, instead of being directly in front.

As the vanishing points for all horizontal retiring lines are on the horizon, it is necessary to have a line to represent it.

In fugure 4, a. b. c. d. represents the base of the cone of light referred to in figure 1 in last paper. It is called the picture plane (P. P.) It also limits the extent of the field of vision. In the centre is a point, very ap. propriately called the centre of vision (C.V.) Through this point a line is drawn to represent the horizon; it is the horizontal line (H. L.) (S. P.) is the station point or position of eye of spectator; S. P..C.V. is the distance of spectator from picture plane, and also indicates the direction in which he is looking, hence its name, line of direction (L.D.)


The size of the picture plan= increases with its distance from the spectator, and as the centre is always as high above the grourd as his eye, when the diameter of the picture plane is more than twice this height, a portion of it will be cut of and rendered invisible by the ground. The line where the two planes intersect is called the ground fine, marked G. L. in figure 4, and, assuming that a line from the eye to the horizon through the centre of vision is always level and parallel with the ground, a line from the feet of spectator drawn parallel with it, to cut the picture plane, would find a point through which the ground line would pass. This means that if the height of the eje be mensurcd on P. P. below H. L. it will give the position of G. L.

These points and lines are on diffeent planes and belore they can be used for practical work we must contrive to represent them all on one surface, that is, the paper on which our drawing is to be made. Reterence to figure 5 will show how this is accomplished. The P.P. is supposed to be rotated away from S. P. on the line G. L. until it is lying on the ground, the points C. V. and S. P. and the line H. L. tracing in their tiescent circular curves and finding new positions on the ground plane. It will be seen
that the relation existing between these new positions is the sarae as before.


Two more points are necessary, viz., Measuring points, the use of which will be explained in the proper place. They are obtained by setting off on H. L. on each side of C. V. the length of L. D. As ihey are as far from C. V. on each side as is S. P. they are often called D.stance Points.
It will be remembered that the angle of virion includes the greatest amount of surface visible at one time, but it is somewhat painful to the eje to be so near to the objects to be represented that they occupy the whole of the field of vision. Taking this into consideration, perspective problems are arranged in such a way as to make the angle formed by the rays from the extreme limits of objects to the cye, much less than $60^{\circ}$. A simple experiment will illustrate this. Look at the centre of a lead pencil held up. right at a distance equal to its length, from the eje. Although it can all be seen, it is difficult to make out details. Now hold it at arm's length and the improvement will at once be manifest. Figures 2 and 3 may also be refersed to.
In the next paper the rules of perspective will be given, and explained where practicable.


Professor S. P. Lnsider announces that he has been brought to the conclusion that the loss of sunitght a:td sunheat thr ugh absorption by the atmosphere is forty per cent. or double the percentige formerly accepied.

The: Macmillams have brought nut good editionsol three standard and valuable m:anuals for teachers at greaily reduced prices:Fitch's Lectares on Teachirger at 5125 ; Professar Caldenwood's On Teasisirns, at 50 conts; and Mr. Thring's Theory and l'racfice of Teach:rys, at \$i.6o.
Ponzumatic post tubes have been in use for some time past for the conveyance of mail matter from the district offices to St. Marin's-le-Grand. They have proved a great success both as regards economy of muney and tinic, and now a more dating scheme is broached. It is sugnested that a pneumatic tube should be laid between London and Edinburgh, and if it worked succesffully that the immense correspondence of London should be disiributed in a simiar manner 20 all the posial centres of England. It is only a dream ; but in the nincecnth century the dream of one decade frequently becomes the reality of the next.- Mfasf.

## The High School.

UNIVERSITY STUDIES.
jomid stuakt sithe.
pROCI:SSES RY WHCH TRUTH IS ATTAINED.
TuE processes by which truth is attained, reasoning and observation, have been carried to their greatest known perfection in the physical sciences. As classical literature furnishes the most perfect types of the art of expression, so do the physical sciences those of the art of thinking. Mathematics, andits application to astronomy and natural philosophy, are the most complete example of the discovery of truths, by reasoning; experimental science, uf their discovery by direct observation. In all these cases we know that we can trust the operation, because the conclusions to which it has led have been found true by subsequent trial. It is by the study of these, then, that we may hope to qualiiy ourselves for distinguishing truth, in cases where there do not exist the same ready means of verification.
In what consists the principal and most characteristic difference between one human intellect and another? In their ability to judge correctly of evidence. Our direct perceptions of truth are so limited; we know so few things by immediate intuition, or, as it used to be called, by simple apprehension -that we depend for aimost all our valuable knowledge on evidence external to itself; and most of us are very unsafe hands at estimating evidence, where an appeal cannot be made to actual eyesight. The intellectual part of our education has nothing more important to do. than to correct or mitigate this almost universal infirmity-this summary and substance of nearly all purely intellectual weakness. To do this with effect needs all the resources which the most perfect system of intellectual training can command. Those resources, as every teacher knows, are but of three kinds: first, models; secondly, rules; thidly, appropriate practice. The modes of the art of estimating evidence are furnished by science; the rules are suggested by science ; and the study of science is the most fundamental portion of the practice.

## Math falatics-lune and arpined.

It is clicfly from maihematics we realize the fact that there actually is a road to truth by means of reasoning; that anything real, and which will be found true when tried, can be arrived at by at mere operation of the mind. The flagrant abuse of mere reasoning in the days of the schoolmen, when, men argeed confidently 10 supposed facts of outward nature without properly establishing their premises, or checking the conclusions by observation, created a prejudice in the modern, and especially in the English, mind,
against deductive reasoning alt. gether as a mode of investigation. The prejudice lasted long, and was upiteld by the mijunderstood authority of Lord Bacon, until the prodigious applications of mathematics to physical sci-ence-to the discovery of the laws of external nature-slawly and tardily restored the reasoning process to the place which belot gs to it as a source of real knowledge. Mathematics, pure and applied, are still the great conclusive example of what can be done by reasoning. Mathematics also habituates us to several of the principal precautions for the safety of the process. Our first studies in geometry teach us two invaluable lessons. One is-to lay down at the beginning, in express and clear terms, all the premises from which we intend to reason. The other is, to keep every step in the reasoning distinct and separate from all the other steps, and to make each step safe before proceeding to another, expressiy stating to ourselves, at every joint in the reasoning, what new premise we there introduce. It is not necessary that we should do this at all times, in all our reasonings. But we must be always able and ready to do it. Il the validity of our argument is denied, or, if we doubt it ourselves, that is the way to check it. In this way we are often enabled to detect at once the exact place where paralogism or confusion gets in ; and after sufficirnt practice we may be able to keep them out from the beginning. It is to wathematics, again, that we owe our first notion of a connected body of truth, truths which grow out of one another, and hang togethicr so that each implies all the rest, wihhout contradicting at:other or others, until in the end it appears that no part of the system can be false unless the whole is so. Pure mathematics first gave us this conception ; applied mathematics extends to it the realm of physical nature.

Applied mathematics shows us that not only the truths of abstract number and extension, but the external facts of the universe, which we apprehend by our senses, form, at least in a large part of all nature, a web sımilarly held together. We are able, by reasoning from a few fundamental truths, to explain and predict the phenomena of material objects; and, what is still more remarkable, the fundamental truths were themselves found out by reasoning, for they are not such as are obvious to the senses, but had to be inferred by a mathematical process from a mass of minute details, which alone came within the direct reach of human obscrvation. When Newton, in this manner, discovered the laws of the solar system, he created, for all posterity, the true idea of science. He gave the most perfect example we are ever likely to have, of that union of reasoning and obscrvation which, by means of facts that can be directly observed, ascends to laws which govern multitutes of
other facts-laws which not only explain and account for what we see, but give us assurance beforehand of much that we do not see, much that we never could have found out by observation, though, having been found out, it is alwas s verified by the result.

## DISCIMINE OF TIIE FXIUERIMENTAL SCIENCES.

While mathematics and the mathematical sciences supply us with a typical example of the ascertainment of truth by reasoning, those physical sciences which are not mathe-matical-such as chemistry and purcly expermental physics-show us in equal perfection the other mode of arriving at certain truth, by observation, in its most accurate form-that of experiment. The value of mathematics in a logical point of view is an old topic with mathematicians, and has been insisted on so exclusively as to provoke a counter exargeration, of which a well-known essay by Sir William Hamitton is an example: but the logical value of experimental scienre is comparatively a new subject, yet there is no inellectual discipline more important than that which the experimental sciences afford. Their whole occupation consists in doing well, what all of us, during the whole of life, are engayed in doing, for the most part badly. All men do not affect to be reasoners. but all profess, and really attempt, to draw inferences from experience, yet, hardly any one who has not been a student of the physical sciences sets out with any just idea of what the process of interpeting experence really is. If a lact has occurred once or oftener, and another fact has followed it,-prople think they have got an experiment, and are well on the road towards showing that the one fact is the cause of the other. If they did bat know the immenso amount of precaution necessary to a scientific experment, whth what sedulous care the accompanying circumstances are contrived and varied, so as to exclude every agency but that which is the subject of the experiment, or, when disturbing agencies can not be cxcluded, the monute accuracy with which their influence is calculated and allowed for, in order that the residue may contain nothing but what is due to the one agency under enammation; if these things were attended to, people would le much less easily satisfied that their opinions have the evidence of experience; many popular notions and generalizatuons which are in all mouths, would be thought a great deal less cettain than they are supposed to be; but we should begin to lay the foundation of really experimental knowledge, on things which are now the subjects of mero vague discussion, where one side finds as much to say-and says it as confidently as another, and each person's opinion is less determined by evidence than by his accidental interest or prepossession.

## The Public School.

WHY NOT DO IT, SIR, TO.DAYq
Charlers ano Mary lamit
"Why, so I will, jou noisy lird,
This very day I'll advertise you,
Perhaps some busy ones may prize you.
A fine tongued parrot as was ewer hears,
I'll word it thus - ste forth all charms about you,
And say mo family should lre without you."
Thus far a gemteman addressed a bird ;
Then to his friend. " sha uld prucrastimator,
Sir, 1 am : do you wonder that 1 hate her?
Though she but seven wurds can saj,
Twenty and twenty times a day
She interferes with all my dreams,
My projert, plans, and airy schemes.
Mocking my foible to my sorrox:
I'll advertise this bind to-morrow."
To this the bird seven words did say:
"Why not do it, sir, to-day ?"

## MORAL EDUCATION THE GREAT WANT OF THE AGE.

11. MORAI EDUCATION--ITS NatURE Rev. P'fupk Prescott. (Contluded fram last issuc.)
Join Locke has expressed the ominion that it is possible to place morality on a "scientific basis." This, however, is what he has not achieved; although, from that ex. pression of opiniot, we may very well suppose that an attempt was made. The scientific basis, for which he made search in the realm of philosophy, is to be found not there, but in a different region. In the region of inspired truth it is set forth to as wath Dume simplicity, from the lips of Him Who "spake as neter man spake." Nor can phlosophy refuse its concurrence as to the correciness of the basis laid doun in Holy Scripture. What can be more phain and conancong than that the two main princif ies of moralty are Honesty and Kininess? And what is more certain than that Honesty and Kindness are enabled, by means of Patience, to bring forth "fruit to perfection?" And what is the Golden Nule but the beatuty and giony of honesty and kindness in their conjunction with each other; what is it but their con. summation and crown ?

This is a statement which, very possibly, may fail to carry immediate conviction to the mind of the reader. In that case, let us call to our aid the fundamental rule of logic, which directs us to suspend our judgment, in any given case, till the whole of the ease is before us; and to have the whole of the case before us will be impossible until our in. vestigation of the qualitics specified has been actually made, and the results compared with the facts of human life. This, of course, is the business of the manual. Still, it may be useful, at this preliminary stage, to
take what may be termed " $\Omega$ bird's eyc view," which will prepare us for the more detailed view to be taken in the text-book.
llonesty: what is that? Honesty in thought is sincerity; honesty in speech is truthfulness; honesty in action is justice or equity. Sincerity, "truth in the inward parts," is the root. Truthfulness is essential to mutual trust, and mutual trust is essential to friendship. If you cannot believe a man you cannot trust him ; and if you cannot trust him, what is friendship but an empty name? And honesty in action is not lessimportant than honesty in speech. Truthful. ness and justice will, in fact, be found to go together. The following incident will serve to show the necd of spreading right views on this point throughout certain portions, at least, of the community. A short time ago I was in conversation with a respectable tradesman on the the subject of moral education, who said that he could not see that it was at all necessary. His idea was that if parents told their children that they ought to be honest, that was all the moral education that was needed. Nor did anything that was said appear to produce any effect, until the following appeal was made: "Are you not aware that commercial operations are, to a great extent, heneycombed with aishonesty?" This touched a chord that vibrated instantly and powerfully. "Yes," said he, "I do know it. This weck I have a bad dubt of $£ 160$. A man owes me $\mathcal{L} 200$, and offers a composition of four shiblings in the pound; and this man is a professor of redigion, and it is not the first time that he has compounded with his creditors." On conversing further with the tradesman, it became manifest that the horizon of his ideas on the subject of morality was very limited. With him morality meant nothing more than that a man ought to pay his debts. This may serve as a specimen to show how little moral education on broad principles is understond, and how greatly it is needed. It may serve to indicale also the nature of the obstacles with which its general introduction into the schools and colleges of the country must contend.

Goodness: what is that? It is that dis. posution which causes the mind to find its happiness in promoting the hampmess of others. As Bishop Porteus says: "The joy resulting irom the diffusion of blessings to all around us is the purest and sublimest that can ever enter the human mind, and can be conccived only by those who have experienced it. Next to the consolations of Divine grace, it is the most sovercigu balm to the miscrics of life, both in him who is the object of it and in him who exercises it ; and it will not only soothe and tranquillize a troubled spirit, but inspire a constant flow of good humour, content and gaicty of heart." Let us select one of the most important manifestations of goodness or kindricss-
gratitude to parents. Gratitude arises from true affection. This exists in the heart of every child, and may be trained and cultivated, or it may be neglected and suffered to wither. Iraining consists of more than mere instruction, but without instruction training is impossible. Children are not expected to understand the multiplication table without instruction, yet vast multitudes of children are expected to be grateful to their parents, although no pains are taken to show them wohy they ought to be grateful. If the same pains were taken to train the affection of gratitude, which in many cases is bestowed on the training of a ruse or a tulip, many parents whose oldage is rendered joyless and comfortiess by the ingratitude of their chil. dren, would be placed amidst very different surroundings, and experience very different feelings.

Patience: what is that? Every Englishman, of course, supposes that he knows very well what it is ; for is it not an English word in common use? But the English word, in its common use, expresses only onc-half of the meaning of the Greek word which is used by St. Luke, and only one-half of the meaning assigned to it in the dictionary compiled by Dr. Johnson. In its ordinary use it simply denotes endurance; but its full signication has two branches, -it is active as well as passive. Taken actively, it denotes perseverance, patient continuance in well-doing, the power that conquers difficultics. Taken passively, it denotes endurance, the power 10 wait and to suffer. These two branches are vitally connected; they spring from one trunk; they afford each other sirength, and neither of them can live without the other. The full meaning sf the word pattence is seen only in this twofold signification. Again, patience develops honesty and kindness; and these, in their full development, are seen in the Golden Rule, which is therr consummation and crown.

## METHODS OF TEACHING EX. ECUTION IN WRITING.

1. Let the teacher determine that he will have correct execution; that the precise forms of the copy shall be accurately made, not merely by the few who have natural aptitude, bu! by alt. This can be achieved; for it has been again and again.
2. It will be well also to settle in the mind that correctness of form is preferable to mere rapidity of exccution. Therefore, let the pupils procced slowly at first. As soon as the forms are correctly made, they may then advance more rapidly, but not faster than is consistent with accuracy.
3. While they are writing, let their attention be freguently called to position, penloolding, rests and movements.

Nore.-It is very important that pupils should understand the clements of which the leticrs are composed. They should be early impressed with tie fact that the modern style is based upon the pblique - raight line and
very thort turns formed by an up and down, or forward-and-backward movement of the nen, whether this is produced by the fingers or by the forearm. This movement should be dwelt upon to overcome rounded down strokes and "scooping" turns.-The Teachers' Guide to Writing.

## The University.

## THE BASTS OF THE PROPOSED SCHEME OF UNIVERSITY CONFEDERATION,

Arrived at by the ilinister of t ducntion and the Repre. sentatives of she Conlculerating Institutions.

1. It is proposed to form a Confederation of Colleges, carrying on, in Toromto, work embraced in the Arts curriculum of the Provincial University, and in connection therewith the following institutions, namely: Queen's University, Victoria University, and Trinity University, Knox College, St. Michacl's College. Wyelife College, and Toronto Baptist College, shall have the right to enter into the proposed confederation, provided always that eacth of such institutions shall, so long as it remains in the confederation, keep in abeyance any powers it may possess of conferring degrees other than degrees in Divinity: such powers remaining intact though not exercised. It shall be lawful for the Senate, from time to time, to provide by Statute for the admission of other instifutions into the confederation under the limitations above prescribed. Xothing herein contained shall be held to repeal any of the provisions for affiliation of Institutions as contained in R. S. O., cap. 210, sec. 61.
2. The head of each confederating college shall be ex-officio a member of the Senate of the I'rovincial University, and in addition thereto the governing loody of each confederating college shall be entitled to appoint one other member of the Senate. The University Professoriate shall be represented by two of their memixers on the Senate, and the council of University College ly one of its members in addition to the President.
3. The Undergraduates of any confederating uni crsity shall be admitted a./erniten staturn, and the (iraduates in I.aw and Irts of any confederating university shall be almitted at eundent gradum in the Provincial U'niversity: Such of the graduates in medicine of any confederating university as shall have actually passed their examinations within the limits of the Province of On tario shall be admitted al cundem gradum in the Provincial University.
4. During the contimanace of such confederation, but no longer, all graduates in Medicine and Iaw so admittel shall have the same rights, powers. and privilege, as are at present enjojed loy the like graduates of the $\dot{i}$ ovincial University, except as herein othe wise provided.
5. All graduates in Medicine, including such admitted graduates, chall wote as one body, and be entited to elect four members of senate. All graduates in Law, including such admitted graduates, shall vote as one lody, and be entitied to elect iwo menalers of sennte. All graduates in law, including such admitted graduates, shall vote as one body, and le entited to elect two members of senate.
6. The graduates in Arts of the several universitics entering into the confederation shall, for the period of six years after the requisite legislation shall have licen obtained. We entilled to the following representation on the Senate, namely: those of Queen's University to elect four mens. bers; those of Victoria University to clect four members: and those of Trinity University 10 elect four inemilers. The graduaies in Arts of the Provincial University, other than those admitted ad rundem gradun under this scheme, shall be entitled to elect twelve mombers of senate. After the saili periok of six years, separate representation shall cease and the cnutc lerdy of graduates shall unite in electing. anumber of representatives equal
to those previously elected by the several universities in confederation.
7. (a) University College shall afford to all students who desire to avail themselves thereof the requisite facilities for obtaining adeyuate itastruction in the following subjects in the curriculum of the Provincial University, viz: Latin, Greek, Ancient llistory, French, German, English, Oriental Languages and Moral Philosophy: pro: vided that it shall be competent to the governing body of University College to institute additional chars which do not exist in the university.
(b). Attendance on instruction provided in any of the confederating colleges, including University Ce ege, shall be accorded equal vahue as a conditun of proceeding to any degree with attendance on the work of the University Professoriate.
S. There shall be estalalished another teaching faculty in connection with the Jrovincial University, to be called the University Professoriate, which shall afford to all students of the Provincial University, who desire to avail themselves thereof, the requisite facilitics for obtaining adequate instructlon in the following suljects, in accordance with the curriculum of such University, namely: Pure Mathematics, lhysics, Astronomy, Geology, Mineralogy, Chemistry, Zoology, Botany, 1hysiology, Ethnology, (including Comparative Phlology), History, Logic and Metaphysics, History of Philosophy, Italian and Spanish, I'olitical Economy and Civil Polity, Jurisprudence, Constitutional Law, lingineering, and such other Sciences, Arts, and branches of knowledge as the Senate of the l'rovincial University may, from time to time, determine, except such suljects as are prohbited from leing taught by Revised Statutes of Ontario, Cap. 2c9, sec. 9.
8. The professurs in such University Faculty shall tee a corporation presided over by a chairman. The same person shall be President of Unisersity College and Chairman of the Faculty of the University Professorinte. University College and the Faculty of the University Professoriate shall be complementary the one to the other, and afford to all university students the requisite facilities for obtaining adeçuate instruction in all subjects prescribed in the curriculum of the Provinctal University. If in the interests of the general oljects of the confederation, it shall at any future tume be found advantagevus to have any sulpect irausferred frum L'niversity Cullege tu the Unisersity, ur from the University to University College, if shall be competent to the governing bodies of the College and the University to arrange for such transfer.
9. Every graduate's or student's diploma or certificate of standing, issued by the 'rovincial University, in addition to being signed by the proper university authorities in that behalf, shall indicate the college or colleses in which such student attended lectures, and shall be signed by such professors, teachers and officers of such college or culleges, as its or their governing iody or bodies may frum time to time determine.
10. With a vicw to the advantageous working out of this scheme, representatives of the various colleges and the University Faculy shall from time to time meet in committee, and arrange time-tables for lectures and other college and university work. 12. The Senate of the Provincial University may, of ats own motion, enquare into the concluct, eaching and cliciency of any professor or teacher in the University Faculty, and report to the l.ecutGovernor the result of such enyury, and may mahe such recenmendations as the senate may thinh the circumstances of the case repuire.
11. All students, eacept in cases specially provided for by the Senate, shall enroll themselves in one of the colleges and place themselves under its discipline. The authorny of the several colleges over their students shall remain intact. The University I'rofessoriate shall have entire responsibility of discipline in regard to students, if any, carolled in the university alone; in regard to students entered in one or other of the colleges its power of discipline shall le limited to the conduct of stuitents in relation to university work and duties. All other matters of discipline alfecting the unserersity standing of students shall le dealt wath by the Scnate of the Provincial University:
12. The university endowment and all additions thereto shall be applied to the maintenance of the Provincial University, the University Faculty, and University College.
13. There shall be the following staff in Universit; ollege:-


Additional assistance in above subjects to be provided so that no llonor Class shall exceed 12, or Pass Class 30.
16. Titere shall be a University Professoriate adequate to give instruction in each of the following suljects, namels: Pure Mathematics, Physics, Astronomy, Geology, Mineralogy, Chemistry, Applied Chemistry, Zoology, Botany, Physiology, Fithnology, History, Italan and Spanish. I.ogic and Metaphystcs, Historv of Phosophy, Poltical Economy and Cisil Polity, Constitutional Law, Junsprudence, Engineering. As regards Tutors and Fellows, assistance shall tee proveled to the Unversity Faculty smilar to that mentroned above or the College, as may be required.
17. The university professorial lectures shall be free of charge to all cindents matriculated in the University, who are members of a confederating college, bat in the case of students (if any) who do not belong to any college the Senate shall determine the fess which shall be charged for the several courses of lectures in the University: But such Jatroratory fees, as may be tused from time to tume by the senate, shall lre patd by all students.
18. The varous colleges which are at present affiliated to any of the umsersmes entering anto the confederation shall have the right to be affilhated to the Provincial University.
19. The curriculan in Arts of the Provincial University shall include the subjects of Biblical (ireck, Míhlical Literature, Christian Ethics, Apologetics or the Evidences of Natural and Revealed Religion and Church Ilistory, but provision shall Ic made by a system of options to prevent such subjects being made compulsory by the University upon any candidate for a degrec.
20. No coliege student shall be allowed to present himself for any University examination subsequent to matriculation without producing a certif. cate, under the hand and seal of his college, that he has complied with all the requirements of his college affecting his admission to such evamination.
21. The University College work shall continue to le carricd on as at present, in the college buildings, in the School of Practical Science, and in such other buildlings as may hereafter be erected on the present Unversity grounds, in the City of Toronto.
A buildang suitable for a Unitersity Exammation IIall, Senate rooms, Registrar's and other offices shall be crected on said grounds.

Additions to be made to School of Science sufficient to afford proper accommodation for students in Mincralogy, Botany, and other subjects, and for the accommoriation of the Muscum which should be removed from its present quarters in order to le more serviceable for science students.
22. The following also to be considered:

Completion of the Collection of Physical Apparatus,

Physiolugical Iaboratory and Apparatus,
Astronomical Obseriatury and Instruments, and
Provision for the Education of Women,

## UNIVERSITY UF TORONTO.

AT a meeting of the Senate of Toronto University held on Friday last, Vice-Chancellor Mulock gave nutice of the fullowing motion for next meeting:-"That the Senate of the University of Toronto, understanding from those of its members who took part in the late conference on university conlederation, that the plan now laid before it is the result of the detiberations of the conference, and embodies the only practical terms and conditions to which the assent of any of the other universittes can be expected, and is submitted for acceptance or rejection as a whole, accepts the said plan as a whole, agrees to do every thing in its power to make it a success, and recommends ihat the necessary legislation in order to give effect to the plan, be promoted by the Government.'

Pruf. Loudon gave notice of the following motion :--"That the Senate feels it its duty to call the attention of the Government to the necessity of inreasing the financial resources of the university in order to carry out the confederation plan haid before it, and requests that the requisite steps be taken to that end."

The Senate of the University of Toronto, have determined that in tuture there shall be but five examinations in all in the Arts' course. Of these the Universi:y shall hold three, the matriculation examination, the examination of the first year, and the examination for graduation. The examinations for the second and third years shall be held by the affiliated coleges to which the undergraduates are attached.

## UNIVERSITY OF TRINITY COLLEGE:

The appointment of competent and experienced examiners is one of the most important functions of a university corporation. It will be notuced in the following list of examiners for the University of Trinity College, for 1885 , that the authorities of this institution, in order to secure excellence, have made their choice irrespective of the university or denominational attachments of the appointees.

Faculy of Divtnity-Right Rev. the Rishop of Toronto, the Provost of Trinity College, Rev. John Carry, D.D.

Factily of Arts-Diviniti-Rev. C. H. Mlockridge, D.D. Classics-Wm. Dale, M. A. M.thematis-Rev. C. L. Worrell, M.A. Physical Science-Dr. Sheard. Natural Science-Dr. Coleman. Mental and Moral Philosophy-Ree Principal Nelles, LL. D. Hebrew-Rev. IV. E. Cuoper, M. A. Eng. lish and History-Rev. C. L. Worrell, M A. Modern Languages-F. Krauss, M.D., C.M. Honour Classics-Wm. Dale, M.A.; Kev. Prof Boys, M1.A. Horour MathematicsProfessor N. 1:. Dupuis, M A.; Rev. Prof. Jones, M. A. Honours in Theology-Rev. Prof. Schneider, M.A.; Rev. Profe;sor Clark, M.A.

Faculty of Mfedicinc-Matriculation exam. ination-Rev. G. J. Taj lor, M.A.; T. Kirkland, M.A.
Faculty of Lazu-Constitutional History, Polntical Economy, and Roman Lav-Professor Goldw in Smith, M.A. Cummon Law, Equity, and Real Property. J.F. Smith, LL.B.
Facully of Mrusic-Professor F. L. Ritter, Vassar College.
Invigikators in Examinations-Rev. G. J. Taylor, M.A.; Rev. C. L. Ingles, B.A.

UNIVERSITY OF VICTORIA COL. LEGE.
AT a meeting of the Board of Regents of the University of Victoria College, held on Friday the 9 h, at which the attendance was almost a maximum, the following resolution referring to the proposed basis of university consolidation, was passed with substantial unanimity :
"Inasmuch as a proposition is made to this Board of Re:ents, with the sanction of the Minister of Education of the Province of Ontario, to form a confederation of colleges in one provincial university; and inasmuch as the Methodist peopie of this country in all branches of our Methodism have alway's declared themselves willing to accept and maintain a system of university edu. cation that would secure on the one hand a higher culture in the sciences and arts, under proper religious influences and safeguards. and on the other the equality in privileges and advantages and academic standing of the youth of the country, and inasmuch as the general principle of confederation as cm bodied in the present memorandum forwarded to this Board under the approbation of the Minister of Education is in harmony with the principles we have so long che rished, we express our readiness as a board, on educational and parriotic grounds, 10 join in such a confederation, and move the propet authorities of our Church thereto as they may determine, provided the following conditions are made:-
(1) Equatable compensation to all college uniting in the confederation for their losses incident to their entering the confederation.
(2) The perfect equality of all the colleges, University College included, in their relations to, and rights in, the Procincial Universty.
(3) Such an arrangement as shall secure to the alumen of all the Colleges an equit. able representation in perpetury.
(4) That the Chairman of the University Professoriat be appointed by the Govern. ment.
(5) That transfer of subjects from Univer. sity College course to the course in the University' Professoriat, or aife zersa, shall be made only by a three.fourth majority of the Senate.

## Educational Intelligence.

The new American Catholic University will have an endowiment of $\$ 3,000,000$.
Mr. J. C. Smitif, of Cavan, has resigned his school, to take charge of a London d: Lancashure Insurance Agency in Lindsay.
Peter Housf, Cambridge, celebrated the sixhundredth annuersary of us foundition, on Monday, 2nd December last. It is the oldest collegrate mstitution in the University.
We regret to learn of the sad death, caused by inflamation of the brain, of Mr . Joseph Pickering, late Principal of Arkona Public School. Those who knew Mr. Pickering, speak of him as an exc-llent teacher, highly respected by all who knew him.
Taenew building for the High School at Smith's Falls was opened on Weclnesday; the 7 th in-t., with simple but impressive cremunies.-a dedicatory prayer, by the Rev. Mr. Mylne, of the town, and' speeches
by member ; of the board, and by the newly anpointed masters of the school, Mesurs. Robertson and Little.
The regular half yearly mecting of the North York 'Teachers' Association will be held at the Model School, Newmarket, on the 22nd and 23 rd of January inst. J. A. McLellan, LL D., Conductor of Institutes, will be present and will deliver a public address on the evening of the 22nd.

Mr. Frank Wood, who for seven years past has been Princivai of the Mindel School, Bradford, was on New Year's Day presented by the people of the town with an address, and some very valuable books. on the occasion of his resignation. The address spokevery favourably of Mr. Wood's efficiency and value as a citizen.
A short time ago it was stated that the Hon. D. A. Smith hall given $\$ 50.00$ to McGill Col'ege, Montreal, for the nurpose of encouraging the higher education of women. It seems the same genteman is now willing to grant another $\$ 50,0 c o$ on condition that provicion be made for the separate education of women in that institution.
THE second lecture of the Peterborough Y. M. C. A. course, will be given on the evening of Thursday, $15^{\text {th }}$ January in the Association Hall. The lecturer is Mr. J H. Long. M.A., L.L. B., and the subject is "Eng. lish Writing Reform," a topic of considerable interest, in view of the many schemes proposed for simplifying nur orthography. We understand that Mr. Long will, in connection with this subject, take up the origin and development of shorthand.-Peterboroury Examiner.
Ture inauguration of Strathrov Collegiate Institute was celebrated in Albert Hall, Strathroy, on Monday, January t2th, with aיpropriate ccremonies. The Hon. G. W. Ross, Minister of Eduration, made an address in the afternoon, and a banguet was given to him in the ciening by the teachers and pupils of the institute. The Minister declared that the consolidation of the different branches of the educational system of the Province, should be his principal aim. Strathroy High School has. for some time, deserved tbe honor to which it has but just now attaine,

Owivg to the enormous increase of work connected with the education system and the larece expendirures involved, it has been de. cided by the Government to create a Minister of Education. It is understond that the portfolso will be given to Sir L.yon Playfar, a gentiemen emmently fitted to fill the positon by reason of his scholarship, the dee? unterest he takes in all education matters, and his large l'arliamentary experience. Sir Lyon, who is sinty-six years of age, was born in Meerur, Bengal, and was partly educated at St. Andrew's, North Britain. He made chemistry his special study, and was "t one time mana;er of large calico print works in Clitheroe, near Mancliester. In the general election of 1868 he was elected member of Parliament for the Universities of Edinburgh and St. Andrews, which seat he sill retains. He was lostmaster-General tor a short time prior to the fall of the Gladstone Administration in 1874 . After the general clections of 188 n he was appointed Chairman of Ways and Means, which is almost a Ministerial position. His appointment will prove very popular.-Math, farz. 12th.

## Correspondence.

## GRAMMAR.

To the Editur of the Eiducational Whenty.
Sin,-Permit me to state my experience. I was trained to the strict use of the plan laid down by Samuel Kirkham in his little work on English grammar. In the parsing exercises, the why was stated for each step of the work, This (the why) I soon learned to give habitually, though rationally. As a preparation for the correction of false syntax that followed, this drill was most effectual, and especially, I think, because the grammatical principles ("rales of symax") were always to be stated in each case. I do know that, relying upon my knowledge thus acquired, I was able, while yet a boy to break the fetters of habit in the use of ancorrect forms acgured as the result of mutation. Till long after I could parse with certainty and skill, I knew nothing of analysis of sentences; but I found it extremely easy to take in the whole matter so soon as I once got the idea that, phrases, clauses, and even sentences are used in the same relations as the individual words I had hitherto been parsing.

Now, sir, I am not arguing a case, but stating my own experience. I wish now to state my observations. A large majority of students fail when set to point out the crrors and the principles involved in examples of false syntax. The cases of failure are so numerous, and the failures so complete that I confess to a longing for something more the that whech furmed the guite of my youth in this matter.

AN OLI) TEACIER WHO HAS TRIED TO BE always abreast of the thaes.

## Examination Papers.

## SECOND CLASS PROFESSIONAL EXAMINATIONS.

Papers set at the Examinations held in Toronto and Ottazua Normat Schools, Decomber, $188 \neq$.
V. Mental Arithmetic-Examimer: J. C. Glashas.

1. Bought 300 lbs. sugar, part at the rate of 10 cts. per llb., the remaihider at the rate of $S$ cts. per ll., ; the whole custing E47. Llun many pounts were there at $S$ cts per llo.?
2. A clock standing near a stove loses at the rate of $.57^{\prime \prime}$ per hour when the fire in the stove is alight but ghins at the rate of $.95^{\prime \prime}$ per hour when the fire is not burning. One day at noon the clock was set right and the next das at noon it was observed to te right again. llow long was the fire in the stove alight during those twenty four hours?
3. If the telegraph poles loy the side of a railway be 60 yards apart, what fraction of the true speed will the error lee in reckoning the speed of the irain to be twice as many miles per hour as the train passes poles per minute?
4. A man has a pint measure empty, a quart measure full of water and a gallon measure full of milk. Ile fills the pint measure from the quart measure, the quart measure from the gallon measure, and then cmpties the pint measure into the gallon measure; this he does three times. How much water is there then remaining in the quart measure?
5. Bought goods for $\$ 150$; sold $1 / 2$ of them at a profit of 20 per cent., $1 / 3$ of them at a profit of 10 per cent., and the remainder for $\$ 20$. What was my profit on the whole?
6. A man who has a certain sum of money to invest finds that if he buy at 144, Building Company stock paying 6 per cent., his income will be \$50 more than it would be were he to buy $31 / 2$ per cent. Government bonds at 91. What simmas he to invest?
7. The engine of an express train is making 1 So strokes per minute. If the driving-wheels be 7 ft. in diameter, at how many miles per hour is the train running?
S. How many spuare feet in the surface of a cylimdrical mpe 420 fi . long and 1 la inches in diameter ?

## VI. Drabing-E:xaminer: J, A. McLfl. 1.AN, I.L.D.

1. Draw an upright vicw of a conc, with base alove the line of sight The altitude of the cone is $11 / 2$ inclics, diameter of hase at fleasure.
2. There is a cylinder $11 / 2$ inches long and $1 / 2$ inch in diameter lying on the ground, with its axis parallel with the picture plane. Drans a vien of the cylinder as seen by a person standing (a) directly in f.ent of it, (b) to the right of it, (6) to the left of it.

3 Draw the top view, the end view, and a perspective view (frechand) of a spuare block of steps, having four rosers and four threads, each $1 / 4$ inch. Connect the ton and end views be dotted lines.
4. Three fest to the left of the sjectator and touchng the ground hae, wa square plonth 4 feet to a side itui ifoot thick, having one surface parallel wi. , the picture plane. On it place centrally a sq.... $t^{\prime \cdots} \mathrm{sm} 2$ feet to a side and 4 feet high and 12 feet stam. Scale ${ }^{\prime}$ inch to a foot. 5. Draw angt fled triangle with lase about 2 inches long : ad altitude 1 inch. Within the triangle inscril a circle and un the lungest side of the triangle er astruct a sepuare. Give construction lines, in bot? cases.
6. Draw a square two inches to a side, divide it into four smaller squares, and cover the surface with an ornamental form repeated once in cach stjuare. The unit of design to be based upon the quadrisection of the sides of the smaller squares.
7 Distinguish between (a) light, (b) Shagde. (r) shadow, Giive illustrations, with letters of reference. Assume the slluminating toxily to be at the left, and a little alsove the object on which the light falls.
N. B.-Work to be done with pencil.

## ADIIISSION TO HIGH SCHOOLS.

Pafers set at the late Dacmber Exammations.
I. Dictation-Examiner:-J. E. Honcison, M.A.

After several days' journer, the army reaches a country where slaves may be caught, and disperses itself to the seteral citics and wallages. Sumetumes the people defend themselves heroically with their bows and arrows; flying to the summits of rocks, and selling their liberts dearly. Often, however, they are surprised while they are preparing their meals, or dancing, or celcbrating a bridal-feast ; and then the enemy rush in, seize them, chain, and bear them unresistingly away. If the hamlet le girt with stockades, a garrison of expert archers may occasionally drive back the forlorn-hope of the iate-humters; ham a sccond assault is victorions, and the dwellings are left level with the carth.
II. Combosition-Examiner-J. E. Honc:sos, M.A.

1. Give in your own words the substance of the following fable :-

A rustic saw an eagle in the snare,
And, as he much admired its beauty rare,
He loosed it from its fetters forth to roam

Thence did the eagle a warm friend becone
To its preserver. loor, to avoid the heat
And catch the breeze, it saw him take his seat Beneath a wall. It snatched, as o'er it flew, A burden from his head, and this it threw
Far off. The rustic, eager to pursuc
Ilis pack, made for it. Down the walling fell, And thus the rustic was requited well.
2. Write a short note to a cousin, or friend, in Toronto, inviting him to spend a day with you.
3. Combine the following sentences so as to form a connected story:-

There was once $\dot{a}$ sculptor. The sculptor's nane was Bacon. Bacon, when i troy of five years, fell into a pit. The pit was the pit of a soap-boiler. A workman entered the yard. The workman observed the top of Bacon's head. The workman immediately rescued Bacon.
4. Contract each of the following complex sentences into a simple sentence:
(a). When Cresar had crossed the Rubicon, l'ompey prepared for battle.
(b). As I had nuthing else to do, I went away.
(c). If you remain here, you will sufficr from cold.
5. Correct the following:-
(a). It is equally as good as the other.
(b). There are but a few other similar places.
(c). Whenever he sees me he always enquires after my health.
(in). He does not know you betier than John.
ifi. Englisil Grammar-Examiner-John Seatil, B.a.

1. Having scon fallen unter the King's displeasure for refusing to comply with his desire, the aged chancellor at once resigued his office and its many emoluments.
(a). Analyze the above sentence
(6) Parse the words printed in italics.
2. Explain and illustrate the meaning of the following terms:-Part of speech, conjugation, phrase, clause.
3. Construct sentences to show that each of the following words may be used as different parts of speech :-

> dream, Canculian, what, more.

4 Give all the inflected furms of each of the following words:-
man, he, this, love.
5. Change, when possible, the form of each of the following adjectives, so as to express different degrees of the quality :-
cruel, white, dry, proper, gay, admirable.
6. Define "Transitive Verb," and show that, according to your definition, the verb in each of the following is transitive:-James struck John, John was strucl by James, and The tree was struck
7. Give the other principal pasts of spell, burst, frose, spread, lay.

Why are they ralled "principal"?
S. Distinguish the meanings of $-I$ arrote the letter, Ihate written the letter, and I had woritten the letter, I will go to morrow, and I shall go tonerrow, He came late, and He came latcly.
9. Correct, when necessary, the following, giving the reason in each case:--
(a). It is long since I have spoke my mind.
(b). I heard the man and woman's voice.
(c). James is taller than me and you.
(d). Dont he look the ugliest of his three brothers?
(e), Safety-matches will only take fire upon the box.
(f.) Can I go to-morrow?
(g). Sit quict in your seats
(h). The school-lxard was in the room.
(i). Neither of us was there.
( $j$ ). The river has overflown its lanks.
(k). He hadn't ought to do it.
(l). He feels some better.

## THE EDUCATIONAL WEEKLY，

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# THE GRIP PRINTING AND PUBLISHING CO．， 

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