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THE CANADA

EDUCATIONAL MONTHLY

MARCH, 1899.

A "SOCIETY" GIRL'S EDUCATION.

BY "ORLECOIGNE."

What constitutes a "Society" girl's called "society" girls is generally of be to her should she

H.These questions naturally suggest learning nothing at all of it. to them, and not the "Society" girls Should one of these, having only received an education suited to fit her for social life, find it incumbent upon her to earn her own living, she will find, although many hundreds of dollars may have been expended in sending her to "fashionable" schoo's, that the ordinary finishing-off education she has received will be of little bene fit to her when she wishes to turn it to practical account, unless, indeed, she happens to possess some very decided talent, which has been properly cultivated; but, as these are exceptional cases, it is wiser to deal with the com-

education? And of what use will it such a superficial nature, a mere smatsuddenly tering of many things, by which they be thrown, as is often the case, upon glean such slight knowledge of each her own resources? themselves to our minds; and espe-present a girl is usually taken from cially so when we hear of the frequent school at the age of 18, or even failures either of banks or of well-younger, just at the age she is becomestablished and apparently safe and ing interested in her studies, and is influential companies, which very often | launched into society, where too much result in the total wreck of many thought is concentrated on her perhomes; families being plunged in dire sonal appearance and dress, and too distress and poverty. Although, of little is expended on her mental delate years, the system of educating velopment; until then the parents of girls has undoubtedly improved, and this class of girls will realize that the is improving constantly, it is chiefly the education they are receiving is not the working and what may be termed the right or adequate one, and will aid and "middle" classes who are availing abet in altering the present state of themselves of the opportunities offered things, it will not in itself be sufficient that our colleges and universities are little by little opening their portals to admit within them our girls and women to share in the advantages offered to men. Would it not be infinitely better and wiser in every way that girls should not have their studies interrupted until they are 21 years of age, and specially cultivate the subjects to which their minds most incline, rather than waste time and money instructing them in various subjects and accomplishments for which they show no special taste. It would be better they should receive a good sound Normal School education to fit them for teachers or up-to-date gover-The education usually given to so-inesses, should occasion require it, or

it should be their inclination to have first standing on the threshold of an aim and purpose in life, instead of womanhood, prefer at once to have an leading a wholly frivolous one. By re aim and purpose in life, and determine maining at school till 21 years of age not to lead a wholly frivolous one, instead of being launched in social life why should they not, on leaving at 18, a girl would be better qualified school, take their University course, to judge for herself the sort of life she and study to enter any of the profesprefers to lead; she is likely to be sions they may desire? Of course more sensible and more likely to know there are already thousands of women her own mind, and can at least have who have been, and are being educated the choice of availing herself of to help themselves, but they are to be privileges now offered or of deciding to found chiefly among the working or present it cannot be denied that the generally known as society girls I ordinary society life of a young girl, would direct these remarks, knowing whirl of gaieties which make up the of the "fashionable finishing off" skating, attending teas, lunches, tobog not have to put their "hand to the gan parties, or whatever the season's plough." whim may be, absolutely unfits her for anything else. She must rest herself misapplied to most womanly women. in the mornings and recruit her strength for the next dissipation or ex citement!

clerk or accountant—if they have de and mone; on a heterogenous mass of deavors towards self-support.

live merely a frivolous life for at middle classes. But it is to the class plunged at the age of eighteen into the full well how little use they can make vortex of social life, the excitement of school education should they desire to which, coupled with the wish to take do so. The uncertainty of fortune is part in all that is going on—dancing, such that one never knows who may How often terms such as "strong-minded" or "masculine" are who prefer an independent life, who, for various reasons, do not wish for the ties of matrimony, and yet do not In retrospection how frittered away care to be dependent on others? If, one's days seem, and how one longs however, a girl who has taken up and now to recover the precious time one followed some favorite pursuit, be it might have done good work in. From either a profession or business, should the standpoint of a regretted past in decide to marry, her work will not at that particular, therefore, I would urge all unfit her for married life; in fact, the necessity of keeping girls longer at the systematic way of living will aid their studies, and of giving them the her in managing her household, and same advantages as boys and young she will be the better wife, companion men; of studying in what direction and mother for the discipline she has their special aptitude lies and then indergone. Wherever a girl or woman having it cultivated-if for languages, attempts to enter the field of work they should specially study to become with or against man there will always proficient linguists; for business, why be found some small, petty-minded should they not have a business edu men who will cry out about women cation, that they may be competent to taking their work, or object on some fill positions either of bookkeeper, ground; but fortunately there are many men, and these are to be found cided taste or talent for music or art, amongst those most richly endowed these should be cultivated and studied themselves, both mentally and morally, thoroughly, instead of wasting time who will most willingly help her enaccomplishments for which no aptitude mode of educating women to be more is evinced; or for those who, when the comrade of man will, too, do much

women—the idea, still to a certain existence' extent prevalent—viz., that matrimony

to help dispel that relic of barbarism is the sole end and aim of a girl's so revolting to many nice girls and and especially of a "society girl's"

TALKS TO TEACHERS ON PSYCHOLOGY.

Prof. WILLIAM JAMES.

EDUCATION AND BEHAVIOR.

Education in the last analysis con sists in the organizing of resources in the human being, of powers of con duct which shall fit him to his social and physical world. An "uneduby all but the most habitual situations. On the contrary, one who is educated; is able practically to extricate himself, by means of the examples with which his memory is stored and of the abstract conceptions which he has acquired, from circumstances in which he never was placed before. Education, in short, cannot be better described than by calling it the organization of acquired habits of conduct and tendencies to behavior.

To illustrate. You and I are each and all of us educated, in our several ways, and we show our education at this present moment by different con-It would be quite impossible for me, with my mind technically and with the optical stimulus which your presence affords, to remain sitting here entirely silent and inactive. Sometorces me to keep on speaking. organs of articulation are continuously by the training of all my past years of education is to turn the student into

lecturing and reading. Your conduct, on the other hand, might seem at first sight purely receptive and inactive, leaving out those among you who happen to be taking notes. But the very listening which you are carrying on is itself a determinate kind of conduct. cated" person is one who is nonplussed. All the muscular tensions of your body are distributed in a peculiar way as you listen, your head, your eyes, are fixed characteristically. And, when the lecture is over, it will inevitably eventuate in some stroke of behavior, as I said on the previous occasion. You may be guided differently in some special emergency in the school-room by some word which I now let fall. So it is with the impressions you will make there on your pupil. should get into the habit of regarding them all as instrumental to the acquisition by him of capacities for behavior, emotional, social, bodily, vocal, technical, or what not. And this being the case, you ought to feel willing, in a broad, general way, and without professionally organized as it is, and hair splitting or further ado, to take up with the biological conception of the mind, as of something given us for practical use. That conception, at any thing tells me that I am expected to rate, will conveniently cover the speak, and must speak, something greater part of your own educational My | work.

If we reflect upon the various ideals innervated by outgoing currents, which of education that are prevalent in the the currents passing inward at my different countries, we see that what eves and through my educated brain they all aim at is to organize capacities have set in motion, and the particular for conduct. This is most immediately movements which they make have their obvious in Germany, where the exform and order determined altogether plicitly avowed aim of the higher an efficient instrument of research.

In England, it might seem at first else are inwardly convulsed. sight as if what the higher education. The older pedagogic method of of the universities aimed at were the learning things by rote, and reciting production of certain static types of them parrot-like in the school-room, character, rather than the development rested on the truth that a thing merely of what one may call this dynamic read or heard, and never verbally rescientific efficiency. Profes or Jowett, produced, contracts the weakest possiwhen asked what Oxford could do for ble adhesion in the mind. its students, is said to have replied, recitation or reproduction is thus a "Oxford can teach an English gentle highly important kind of reactive man how to be an English gentleman." behavior on our impressions, and it is But if you ask what it means "to be to be reared that, in the reaction an English gentleman," the only reply against the old parrot recitations as the is in terms of conduct and behavior, beginning and end of instruction, the An English gentleman is a bundle of extreme value of verbal recitation as specifically qualified reactions, a crea- an element of complete training may ture who for all the emergencies of nowadays be too much forgotten. life has his line of rehavior distinctly marked ou' ir him in advance. Here, gegics, we see how enormously the as elsewhite, "England expects every field of reactive conduct has been exman to do his duty."

THE NFCESSITY OF REACTIONS.

class-room. No reception without re are often direfully wrong.

an instrument for advancing scient fic expression—this is the great maxim The German universities which the teacher ought never to forare proud of the number of young get. An impression which simply specialists whom they turn out every flows in at the pupil's eyes or ears, and year—not necessarily men of any in no way modifies the active life, is original force of intellect, but men so an impression gone to waste. It is trained to research that when their physiologically incomplete. It leaves professor gives them an historical or no fruits behind it in the way of philological thesis to prepare, or a bit capacity acquired. Even as mere imof laboratory work to do, with a gen pression it fails to produce its proper eral indication as to the best method, effect upon the memory; for, to remain they can go off by themselves and use fully amongst the acquisitions of this apparatus and consult sources in such latter faculty, it must be wrought ina way as to grind out in the requisite to the whole cycle of our operations. number of months some little pepper-Its motor consequences are what corn of new truth worthy of being clinch it. Some effect, due to it in the added to the store of extant human, way of an activity, must return to the information on that subject. Little mind in the form of the sensation of else is recognized in Germany as a having acted, and connect itself with man's title to academic advancement the impression. The most durable than his ability thus to show himself impressions, in fact, are those on account of which we speak or act, or

When we turn to modern pedatended by the introduction of all those methods of concrete object teaching which are the glory of our contem-If all this be true, then immediately porary schools. Verbal reactions, one general aphorism emerges which useful as they are, are insufficient. ought by logical right to dominate the The pupil's words may be right, but entire conduct of the teacher in the the conceptions corresponding to them action, no impression without correlative modern school, therefore, they form

required to do. He must keep note- possess. hooks, make drawings, plans, and and not by using words, it becomes tainty, and there are persons who decheerfully engaged, and reduce the must prevail over psychological deducteacher's disciplinary functions to a if I may have an opinion on such mat ters, seems to me by far the best, osychologically considered. Manualtraining methods, fortunately, are being slowly, but surely, introduced into all our large cities; but there is still an immense distance to traverse before they shall have gained the extension upon the biological conception.

only a small part of what the pupil is which they are destined ultimately to

No impression without expression, maps, take measurements, onter the then, that is the first pedagogic fruit laboratory and perform experiments, of our evolutionary conception of the consult authorities, and write essays, mind as something instrumental to He must do in his fashion what is adaptive behavior. But a word may often laughed at by outsiders when it be said in continuation. The expresappears in prospectuses under the title sion itself comes back to us, as I inof "original work," but what is really timated a moment ago, in the form of the only possible training for the doing a still further impression—the impresof original work thereafter. The most sion, namely, of what we have done. colossal improvement which recent We thus receive sensible news of our years have seen in secondary educa, behavior and its results. We hear the tion lies in the introduction of the words we have spoken, feel our own manual training schools; not because blow as we give it, or read the success they will give us a people more handy or failure of our reactions in the byand practical for domestic life and bet stander's eyes. Now, this return wave ter skilled in trades, but because they of impression pertains to the comwill give us citizens with an entirely pleteness of the whole experience, and different intellectual fibre. Labora ory, a word about its importance in the work and shop work engender a habit school-room may not be out of place. of observation, a knowledge of the It would seem only natural to say that difference between accuracy and vague-since after acting we normally get ness, and an insight into nature's com some return impression of result, it plexity and into the inadequacy of all must be well to let the pupil get such abstract verbal accounts of real return impression in every possible phenomena which, once wrought into case. Nevertheless, in schools where the mind, remain there as lifelong pos examination marks and "standing" sessions. They confer precision; be and other returns of result are concause, if you are doing a thing, you cealed, the pupil is frustrated of this must do it definitely right or definitely natural termination of the cycle of his wrong. They give honesty, for when activities, and often suffers from the you express yourself by making things, sense of incompleteness and uncerimpossible to dissimulate your vague fend this system as encouraging the ness or ignorance by imbiguity. They pupil to work for the work's sake, and beget a habit of self reliance; they not for extraneous reward. Of course, keep the interest and at ention always here as elsewhere, concrete experience tion. But, as far as our psychological minimum. Of the various systems of deduction goes, it would suggest that manual training, so far as woodwork is the purit's eagerness to know how well concerned, the Swedish sloyd system, he does is in the line of his normal completeness of function, and should never be balked except for very definite reasons indeed.

> NATIVE REACTIONS AND ACQUIRED RE-ACTIONS.

We are by this time fully launched

is an organism for reacting on impres- more concrete, assume the case of a sions; his mind is there to help de young child's training in good manners. termine his reactions, and the purpose The child has a native tendency to of his education is to make them snatch with his hands at anything that numerous and perfect. Our education attracts his curiosity; also to draw means, in short, little more than a mass back his hands when slapped, to cty of possibilities of reaction, acquired at under these latter conditions, to smile The teacher's task 's that of one's gestures. supervising the acquiring process.

governs the entire activity of the it.

teacher. It is this:

Every acquired reaction is, as a rule, either a complication grafted on a native reaction, or a substitute for a native reaction which the same object originally, tended to provoke.

The teacher's art consists in bringing about the substitution or complication, and success in the art presupposes a sympathetic acquaintance with the reactive tendencies natively there.

actions on the child's part, the teacher a toy, the same series of reactions would have no hold whatever upon would fatally occur, each called forth the child's attention of conduct. You by its own impression: see, snatch; may take a horse to the water, but slap, cry; hear, imitate; ask, receive. you cannot make him drink; and so But, with memory there, the child, at you may take a child to the school- the very instant of snatching, recalls room, but you cannot make him learn the rest of the earlier experience, the new things you wish to impart, thinks of the slap and the frustration, except by soliciting him in the first recollects the asking and the reward, instance by something which natively inhibits the snatching impulse, substimakes him react. first step himself. thing before you can get your purchase all the intermediary steps. If a child's on him. That something may be first snatching impulse is excessive, or something good or something bad. A his memory poor, many repetitions of bad reaction is better than no reaction the discipline may be needed before at all; for, if bad, you can couple it the acquired reaction comes to be an with consequences which awake him ingrained habit; but in an eminently to its badness. But, imagine a child educable child a single experience will so lifeless as to react in no way to the suffice. teacher's first appeals, and say how. One might easily represent the whole you can possibly take the first step in process by a brain-diagram; but such his education.

home, at school, or in the training of when gent y spoken to, and to imitate

Suppose now you appear before the This being the case, I will immedichild with a new toy intended as a ately state a principle which underlies present for him. No sooner does he the whole process of acquisition and see the toy than he seeks to snatch You slap the hand; it withdrawn, and the ch:ld You then hold up the toy, smiling, and saying, "Ask for it nicely-so!" The child s'ops crying, imitates you, receives the toy, and crows with pleasure-and that little cycle of training is complete. You have substituted the new reaction of "asking" for the native reaction of snatching, when that kind of impression comes.

Now, if the child had no memory, the process would not be educative. Without an equipment of native re- No matter how often you came in with He must take the tutes the "nice" reaction for it, and He must do some gets the toy immediately by eliminating

a diagram would be little more than a To make this abstract conception symbolic translation of the immediate experience into spatial terms, so I sire to please those whom we love. omit it.

instincts of childhood—so as to be to secure. able to substitute one for another, and turn them on to artificial objects.

these objects are characteristic and de-| scientific or philosophic curiosity. stinctive impulses, it is true, get over-limpression that assails them. ways.

teacher's point of view.

WHAT THE NATIVE REACTIONS ARE.

First of all, fear. Fear of punishment has always been the great weapon

The teacher who succeeds in getting The first thing, then, for the teacher herself loved by the pupils will obtain is to understand the pupil's native re-results which one of a more forbidactive tendencies—the impulses and ding temperament finds it impossible

Next, a word may be said about curiosity This is perhaps a rather It is often said that man is distin- poor term by which to designate the guished from the lower animals by impulse toward better cognition in its having a much smaller assortment of full extent; but you will readily undernative instincts and impulses than stand what I mean. Novelties in the they; but this is a great mistake way of sensible objects, especially if Man, of course, has not the marvelous their sensational quality is bright, egg-laying instincts which some articu-vivid, startling, invariably arrest the lates have; but, if we compare him attention of the young, and hold it with the mammalia, we are forced to until the desire to know more about confess that he is appealed to by a the object is assuaged. In its higher much larger array of objects than any form, the impulse toward completer other mammal, that his reactions on knowledge takes the character of terminate in a very high degree. The both its sensational and its intellectual monkeys, and especially the anthro- form, the instinct is more vivacious poids, are the only beings that ap-during childhood and youth than in proach him in their analytic curiosity after life. Young children are posand width of imitativeness. His in- sessed by curiosity about every new laid by the secondary reactions due to would be quite impossible for a young his superior reasoning power; and child to listen to a lecture for more thus man loses the simbly instinctive than a few minutes, as you are now demeanor. But the life of instinct is listening to me. The outside sights only disguised in him, not lost; and and sounds inevitably carry his attenwhen the higher brain functions are tion off. And for most people in in abeyance, as happens in imbecility middle life, the sort of intellectual or dementia, his instincts sometimes effort required of the average schoolshow their presence in truly brutish boy in mastering his Greek or Latin lesson, his algebra or physics, would I will therefore say a few words be out of the question. The middieabout those instinctive tendencies aged citizen attends exclusively to the which are the most important from the routine details of his business, and new truths, especially when they require involved trains of close reason ing, are no longer within the scope of his potentiality.

The sensational curiosity of childof the teacher, and will always, of hood is appealed to more particularly course, retain some place in the con- b, certain determinate kinds of obditions of the school room. The sub jects. Material things, things that ject is so familiar that nothing more move, human actions and accounts of need be said about it. And the same human action, will win the attention is true of love, and the instinctive de-hetter than anything that is more ab-

adolescence is reached. metaphysical inquiries of children as to who made God, and why they have five fingers, need hardly be counted here. But when the theoretic instinct is once alive in the pupil, an entirely new order of pedagogic relations begins for him, a fact with which all teachers are familiar. And both in its sensible and in its rational developments, disinterested curiosity may be succ ssfully appealed to in the child with much more certainty than in the adult, in whom this intellectual instinct has grown so torpid as usually to require qu'ckening by entering into a sociation with some selfish personal interest. Of this latter point I will say more anon.

Imitation. Man has always been! recognized as the imitative animal par on psychology, however old, which has not devoted at least one paragraph that the full scope and pregnancy of the imitative impulse in man has had to wait till the last dozen years to become adequately recognized. M. Tarde led the way in his admirably original work, "Les Lois de l'Imita tion"; and in our own country Pro fessors Royce and Baldwin have kept the ball rolling with all the energy that The teacher who meets with most could be desired. Each of us is in fact what he is almost exclusively by virtue of his imitativeness. We become teacher should never try to make the imitating others. The consciousness herself. "Come and let me show you of what the others are precedes, the how "is an incomparably better stimu-

Here again comes in the sense of self grows by the sense of advantage of the object-teaching and pattern. The entire accumulated manual-training methods. The pupil's wealth of mankind—languages, arts, attention is spontaneously held by any institutions and sciences—is passed problem that involves a new material on from one generation to another by object or an activity on any one's part | what Baldwin has called social heredity, The teacher's earliest appeals, there each generation simply imitating the fore, must be through objects shown, last. Into the particulars of this most performed or described, fascinating chapter of psychology I Theoretic curiosity, curiosity about have no time to go. The moment the rational relations between things, one hears Tarde's proposition uttered, can hardly be said to awake unil however, one feels how supremely true The sporadic it is. Invention—using the term most broadly-and imitation are the two legs, so to call them, on which the human race historically has walked.

Imitation shades imperceptibly into emulation. Emulation is the impulse to imitate what you see another doing, in order not to appear inferior; and it is hard to draw a sharp line between the manifestations of the two impulses. so inextricably do they mix their effects. Emulation is the very nerve of human society. Why are you, my hearers, sitting here before me? If no one whom you ever heard of had a "summer school" or teachers' institute, would it occurred to any one of you to break out independently and do a thing so unprescribed by fashion? Probably not. Nor would your pupils come to excellence; and there is hardly a book you unless the children of their parents' neighbors were all simultaneously being sent to school. We wish not to be to this fact. It is strange, however, lonely or eccertric, and we wish not to he cut off from our share in things which to our neighbors seem desirable possessions.

In the school-room, initation and emulation play absolutely vital parts. Every teacher knows the advantage of having certain things performed by whole bands of children at a time. success is the teacher whose own ways are the most imitable. conscious of what we ourselves are by pupils do a thing which she cannot do lus than "Go and do it as the book Such a tone changes very slowly, if at directs." Children admire a teacher all; and ti en always under the modiwho has skill, and are inspired with fring influence of new personalities. emulation. It is useless for a dull and laggressive enough in character to set devitalized teacher to exhort her pupils new patterns and not merely to copy to wake up a d take an interest. She the old. The classic example of this must first tame one herself; then her sort of tone is the often quoted case of example is effective as no exhortation Rugby under Dr. Arnold's administracan possibly be. ition. He impressed his own character

Every school has its tone, moral as a model on the imagination of the and intellectual. And this tone is a loldest boys, who in turn were expected mere tradition kept up by imitation, and required to impress theirs upon due in the first instance to the example the younger set. The contagiousness set by teachers and by previous pupils of Arnold's genius was such that a of an aggressive and dominating type, Rugby man was said to be recognizable copied by the others, and passed on all through life by a peculiar turn of from year to year, so that the new character which he anguired at school. pupils take the cue almost immediately.

(To be continued)

THE RELATION OF AGRICULTURE TO OUR SCHOOL SY, I EM.*

foundation of the riches of states."

These are the words of the great and rationally educated. Liebig, one of the founders of the were uttered half a century ago, but field: they are more pregnant with truth at i the learned societies of England. all semi-civilized, countries, but they have a special significance when applied to Canada; for w'ile our fisheries add annually to our wealth to the amount of about \$20,000,000, and our mines nearly \$30,000,000, and our forests about \$80,000,000—agriculture adds no less than \$600,000 000, or three sources of wealth combined.

"Perfect agriculture is the true foun- The perfect agriculture of Liebig dation of trade and industry—it is the implies, of course, a class of agriculturists well copped, thoroughly trained

Now let us quote a more modern modern science of agriculture. They educationist as to the workers in this

"Identified as I am by birth and the end of the nineteenth century than early education with the agricultural they were in the middle of the century population of this country, I regret to when Liebig was carrying on his agri- see so many of our agricultural youth cultural investigations, or than at the leave the noblest of earthly employbeginning of the century when Sir ments and the most independent of Humphrey Davy was unfolding for social pursuits for the professions, the the first time his memorable proposal counting-room, the warehouse, and for agricultural investigation before even for petty clerkships and little shops. I know that persons in public They are applicable to all civilized, to offices, and inhabitants of cities and towns, who have no farms, must, for the most part, bring up their sons to other employments than that of agriculture; personal peculiarities and relations may prompt to the same course in regard to some farmers' sons; and a divine call may select from the farm, as well as from the shop and the colnearly five times as much as the other lege, for a civine vocation; but that, as a general rule, the sons of farmers,

^{*}An address by C. C. James, M A , Deputy Minister of Agriculture, before the National Lence Department of the Provincial Teachers' Association, April 14, 1898.

leave the farm is a misfortune to the wisdom and honesty in legislation and parties themselves, a loss to agricul government, and the hope of proture and to the country. A boy's ducing the great public desideratum leaving the farm because he has, or is a generation of honest politicians and acquiring, a good education is an as-patriotic statesmen." sumption or admission by all con- One might reasonably assume that senting parties that a farmer does not this is an extract from an address need such an education; and as long before one of our Ontario farmers' inas this error is admitted, by farmers stitutes, or has been taken from a not being educated, agriculture will be lately issued report of the Ontario Delooked down upon, instead of being partment of Agriculture, and that they looked up to, as a pursuit for educated are the words and opinions of some men.

"Politicians are accustomed to call ever. farmers, by way of compliment, the Ryerson, taken from the introduction bone and sinew of the land; and bone to his text-hook on agriculture for use and sinew they will remain, and never in Ontario Public Schools, and written be anything else, without education, in 1870. It is a supreme law, illustrated by all Were these statements true and aphistory, that head rules muscle; and plicable in 1870? Then they are even all farmers who educate only their more so in 1899. muscles, and not their heads, must I can well believe that twenty-five educated to be master of his work, in 1890. and agriculture will hold a rank equal. An interesting discussion might be to, if not above, law or medicine. made on the subject of why the truscountry, but its civil and social in and Shaw. terests, by enabling the people to select. It is not my purpose in this short support, or making politics a trade—plans for the future.

as soon as they begin to be educated, affirding the best chance of practical

leading agriculturist. Not so, how-These are the words of Egerton

occupy the inferior relation of muscle. years from the present some student It is true that such farmers, as well as of the educational and economic mechanics, may be and feel them history of this province will be hard at selves quite as good as other people; work studying out and trying to explain but if they are not as intelligent—that why so little progress was made in is, as well educated and informed— general agricultural instruction in this their goodness will be associated with province during the years from 1870 ignorance, and their social position to 1898. During the period four textwill necessarily be one of inferiority. books at least were available, the one But let the boy be educated to make by Dr. Ryerson already referred to, him a better farmer, as well as a better one by Prof. Henry Youle Hind, one citizen; let it be assumed, and become by Dr., now Sir, Wm. Dawson, that a recognized fact, that a farmer must first appeared in 1864, and the "First be educated to be a good farmer, as a Principles of Agriculture," by Dr. lawyer, doctor, or clergyman must be Mills and Prof. Shaw, that appeared

Educated farmers, educated merchants, tees of rural Public Schools at least and educated manufacturers and me- have not insisted upon having instruc-chanics will not only develop and ad- tion given on this subject, based upon vance the material interests of the the book prepared by Messrs. Mills

chiefly intelligent and well to do men address to take up this subjectfrom these classes as their representa- instead of looking backward we should tives-men not needing an office for examine the present's tuation and lay

At the present time the subject of in a critical condition. is being carefully worked out in France, Germany, Italy, and even in darkest Russia. Many of the most progressive of the States to the south of us are also discussing the question. and in some cases at lea t a promising start has been made.

In the Province of Manitoba course of agricultural instruction has been laid down, and a text-book prepared adapted to the conditions of that province.

the way of editing and publishing textbooks in various departments of agriculture than in any other province, and a continued effort has been made I to make the instruction as general as possible.

In Ontario, however, we shall have to work out our system on the lines that are best adapted to this province, or any other province. We can have our own system if we desire it, and we can have a system adapted to our own conditions of agriculture and suited to the mental ca-

So much for what may be called the introduction to my paper. me now briefly state my views under three heads:

pacity of our pupils.

- 1. Should agriculture be taught in our schools?
- 2. When and where should it be taught in our school programme?
- 3. What can be taught, and how can it be taught?
 - 1. Should Agriculture be Taught?

If agriculture can be taught in our schools, that is, if there is time and place for it, and if it can be presented in a form adapted to school pupils, the more reasonable form for this question, it seems to me, is, "Should agriculture not be taught?"

We certainly general instruction in Public Schools have not yet reached the most acute conditions that have come to the farmers of Great Britain, France. Germany, but we have reached a point which, compared with these conditions of the newer farming communities of Manitoha, the North-west Territories, and other sections similarly situated, can be expressed by no better term than the one I have used. viz : critical.

The building up of the pure-bred live stock interests of this province In Quebec more has been done in and the development of our dairy industry have been the two main factors in saving us from a condition that could be described only by the term " desperate."

Just at the present time the conditions are more favorable than they have been for some time. Prices have improved for us, mainly because of the temporary misfortunes of agriand it will not do to try to copy culturists in other parts of the world. very closely the system of any other One consequence of this is seen in the great rush at present in progress for the cheap productive lands of Manitoba and the North-west Territories. nothing be done to give a decided upward movement to our Ontario agriculture, however, we may soon find ourselves approaching the conditions Let now prevalent in the older farming lands of Europe. Let me give you a statement of that condition from the pen of one who is in authority. Tisserand, the late Director-General of Agriculture in France, speaks as follows in a report to the Recess Committee of the British House of Commons dealing with the question of the industries of Ireland:

"In this extraordinary century, when everything has been profoundly modified by steam, when distances have disappeared, and the Australian with his wool, the Indian with his corn. * the American with his cattle and his

Iture not be taught?"

*Reference is made here to the native of British India, and the word "corn" includes grain of every kind, with special reference to wheat.

Europe at less cost than it took the In all directions it is felt that the agrifarmer of Yorkshire at the beginning culture of Europe is like an old and of the century to get produce to Lon- leaking ship, tossed and buffeted about don, old methods and paternal tradi- upon a sea of breakers, and that, to save tions have become insufficient for the it from foundering, it needs to be steered struggle which has to be carried on by abler hands and navigated by pilots against foreign competition. It is no who will join to a thorough practical longer the struggle for life between training a profound and extensive man and man which is in question; it is the struggle for existence between industry and industry, between agri cu'ture and agriculture, between coun try an 1 country.

"The struggle which agriculture has to sustain is all the more intense and severe because it has been less pre The formidable transpared for it. formation brought about by the prog ress of railways, navigation, and the telegraph has had a greater effect on agriculture than on any other industry, because it has been surprised, so to speak, in the milst of the calm and quietude which it had been enjoying It is no doubt a great boon to human ity that the products of the earth may overflow with an extreme facility from the countries that need them; that every individual is assured his daily bread, that they have had upon agriculture, chester in perfect condition. through the general lowering of the lic powers, and Governments, are important industry.

dead meat, can reach the markets of occupied with these considerations. scientific knowledge."

> The authorities of France are thoroughly awake to the situation, and are now carrying on the most thorough system of general agricultural instruction in order to provide trained men to man the "ship" in her perilous career.

Two things especially are, in my opinion, of prime importance now to save the agriculture of this Province and the agriculture of Canada from being reduced to the level of cheap lands, cheap labor, and cheap mental calibre. The first is the rapid development of our deep waterway systems, so that the advantage may be maintained of the very lowest transportation rates on all farm products for export to Europe, and the completion the regions in which they abound to of a perfect system of transportation, so that our fruits, including peaches and grapes, butter, eggs, poultry and and has no longer to fear the harrible other perishable products may be famines which in other times periodi safely and cheaply transported to the cally decimated the population; that, consuming markets of Europe. It thanks to the Australian wool and vast may be advisable to divert some of the pasturages of the new world, the work-hushing American tourists for Europe ingman can obtain cheap clothing and from New York and Boston to Moncheap food to protect him against treal, St. John, or Halifax, but it infirmity and give him health and means vastly more wealth to this counstrength. But, if these are results to try to be able to send our valuable and be thankful for from the humanitarian perishable farm products to London, point of view, it is nevertheless true Liverpool, Bristol, Glasgow, or Man

The second requirement is that our prices of produce, an action which has agriculturists shall receive some groundplaced it in a critical situation, and ing in the scientific principles underwhich has thrown the cult vators into lying their work, so that farm practice confusion and brought discouragement may be more intelligently directed, and despair among the rural populand that some of the great waste of lation. All thoughtful minds, the pub ime and labor may be saved to this

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of the agriculture of to-day is the rise of schools. co-operative associations. In Ontario we have had agricultural societies ever since the Province was organized, and for nearly seventy years legislative grants

One of the distinguishing features should be taught to the pupils of our

2. When and Where should it be Taught !

Most persons, I think, are of the have been made for their encourage- opinion that some instruction in agriment. But the societies for discus-| culture should be given to pupils in sion of agricultural topics, for inter-trural schools, since they assume that change of ideas, and for teaching or these pupils are to be the future farinstruction by experts are of recent mers. They are not, in general, of origin. We have associations of the the opinion that the teaching should owners and breeders of all the leading be given in towns and city schools, breeds of live stock. We have a Fruit because the pupils of such schools are Growers' Association, associations also likely to move out into professional of the poultry keepers and of the bee- pursuits, become school teachers, enter keepers, an association of experiment- mercantile life, or follow some one of ers, two associations of the dairymen, the many manufacturing lines of life. and an Entomological Society. All They are not quite sure that all pupils these, through their many meetings, in rural schools even should be taught and the hundreds of meetings of Far | agriculture, as so many are yearly commers Institutes, have quickened the ing from the country to the town to minds of the workers. Supplementing reinforce the struggling city classes these meetings, reports and bulletins with new blood and new physique. have been distributed by the hundreds Right here I would present a de atof thousands in the past ten years, able statement. If agriculture can be But the point that I wish to make here taught in our schools in a manner such is that the persons principally bene as I will suggest in my next division, I fitted by this work are the men and am of the opinion that it should be women of mature years. This is all on the course of study for town and very well in its way. These men city pupils as well as on the course for appreciate thoroughly what is being rural pupils. Perhaps in city and town done; they recognize the importance schools it might be made optional, and the necessity of this instruction— but in rural schools it should be obligbut is it not beginning at the wrong atory. The present situation is that, end? Why should the farming class with very few exceptions, all town and of this country have to wait until they city pupils will remain in city and town become men before they learn that pursuits, and the country schools are there is a science underlying their pracialso being annually drained of the tice? If it is a good thing to educate majority of the brightest and most a grown man or a grown woman in the promising. But this, I contend, is principles of agricultural work, it is not a very promising feature of our still more important, as far as practic- country's growth. It may be due in able, to give the boy and the girl some some part to the very nature of our training in these principles early in present system. That I shall not here life, at the time when these principles discuss. If we can, by altering or are most easily acquired, and when rearranging our system, keep more of be of most permanent bene the best rural pupils in touch and work I, therefore, have no hesitation with agriculture, and if we can at the answering my first question by ame time arouse in some of the towns u)ing that agriculture in some form and city pupils a sympathy for agricultural methods and agricultural life, we shall be looking to the best interests of the pupils and the country as a whole. I am of the opinion that a course of agriculture can be given in town and city schools that will be interesting and beneficial, and that will be in harmony with the best educational methods or system. I would put a course in the science of agriculture within the reach of every pupil in all of our schools, and I would therefore begin the work in the public schools, rural and urban alike. schools of France, where agricultural education has been most fully taught, instruction in this work begins in the primary schools in the elementary course, with pupils from seven to nine years old, and is followed out through the middle course, nine to eleven years, and the superior course, with pupils from eleven to thirteen years It might be best to begin the work here by making agriculture a compulsory subject in the 4th form of our Public Schools, and from this as a starting point work out in time a system of instruction adapted to our conditions, prefacing it first by a simpler course in the third form, and adding an advanced course to our High School work.

I believe that agriculture can be taught just as well to the Public School pupils as are some of the subjects at present on the course, and I believe that the pupils themselves will come to the subject with as much eagerness. I do not care to particularize or to make comparisons, but perhaps you will permit one remark, viz. : If Public School pupils can master the subjects of physiology, hygiene and temperance, they are well able to take hold of the subject of agriculture, and I think it can be made more intelligible to them.

3. What can be Taught and How should it be Taught?

This is the most important of the

the whole argument turns. I think that delay in introducing agriculture into our schools has occurred principally because of the difficulty, in fact, the present impossibility, of introduc ing into our schools instruction as to how to farm. Our schools could not be equipped for training in the prac tice of agriculture except at an enor mous cost, and ou. Public School teach ers could not be expected to teach the young how to farm even in the crudest Here is the point—any instruction now given in our schools should deal simply with the science of agriculture; the practical application of the scientific principles may be left to the home training and to such specially equipped institutions as our Agricultural College. It is quite possible that in time something may be done for our rural schools, as has been done in France and other European countries in the way of adding small gardens and plots wherein some of the lessons of the schoolroom may be applied, and where illustrations may be found in the growing trees and shrubs and the development of seeds sown by the hands of the pupils them selves.

This mistake of confusing science and the practice of agriculture is quite general, and some of the textbooks placed in the hands of young pupils have no little responsibility for continuing the mistake.

I consider the science of agriculture eminently adapted for school instruc tion, and a future student of natural science could not lay a better foundation for his future work than by first mastering the general principles of the various sciences which together form what we call the science of agricul ture. Let us note briefly what it includes.

Agriculture consists mainly in the growth of plants, the feeding of these plants to animals, and the working three questions; it is that upon which lover of the animal products resulting

First of all we have the air and the troduction to chemistry, geology and | in milk and cream? meteorology.

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an introduction to entomology.

ology.

animals and the making of cheese and going to the farm or not. butter.

and colleges. and principles that have an application the result. put it in the form of a few questions.

- What is the atmosphere, and how does it affect the soil?
- 2 What are the causes and effects of rain?
 - 3. How is soil originated?
- lying ti-lage and drainage?
- What changes take place in the sprouting of seed?
- 6 How do plants feed and grow and mature seed ?
- 7. How are new varieties of plants produced?
 - 8 How do animals digest food?
- 9 What is the life history of a butbec?

10. What are the causes of fersoil. A study of these gives us an in mentations in the soil, in the silo, and

A thousand and one other questions The growth of plants brings in the might be put, the answers to which study of botany, and closely follows would be given by a knowledge of the I first principles of the sciences of chem-The study of the animals at once istry, botany, entomology, geology, calls for some of the simplest pin physics, physiology or bacteriology. ciples of zoology, anatomy and physi- An acquaintance with such would be useful and interesting to all clas es of Even bacteriology comes in when students, whether coming from the we study the diseases of the plants and farm or not, and to all classes, whether

What I am trying to lay before you And so we might sum up by saying as my idea of how agriculture might that a study of the science of agricul- and should be taught in our schools ture implies a beginning in the study has been more clearly and forcibly put of all the natural sciences that are by that master teacher, Huxley, who, afterwards found in our High Schools | in addressing a farmers' club in Eng-The study of the land on this subject, spoke as follows:

science of agriculture is to a large ex- | "There are some general principles tent a course in "nature study," and, which apply to all technical training. since the illustrations are taken from The first of these, I think, is that pracplants, soils, insects and animals with tice is to be learned only by practice. which all boys and girls are more or. The farmer must be made by thorough less familiar, the subject may be made farm work. I think I might be able to appeal to the everytlay observations to give you a fair account of a bean of the pupils. What should be done, | plant, and of the manner and condithen, is to give the pupils an insight tion of ts growth, but if I were to try into the first principles of the various to raise a crop of beans your club sciences, laying stress upon these laws would probably laugh consumedly at Nevertheless, I believe to the work of agriculture. Let me that practical people would be all the better for the scientific knowledge which does not enable me to grow beans. It would keep you from attempting hopeless experiments, and would enable you to take advantage of the innumerable hints which Dame 4 What are the principles under-| Naturegives to people who live in direct contact with things.

"And this leads me to the general principle which I think applies o all technical training of all schoolboys and schoolgirls, and that is that they should be led from the observation of the commonest facts to general scientific truths. If I were called upon to frame a course of elementary instruction terfly, a beetle, an aphis or a honey preparatory to agriculture, I am not sure that I would attempt chemistry,

or botany, or physiology, or geology as and arouse in them a love that is not -with the introduction of the elements their God given faculties. for the comprehension of the processes 'thy law." blame to it."

agriculture.

Another fault is the attempt on the of all forms of mental food. work, when first begun in the Public the Province of Ontario alone. pupils.

Every rain that falls, every tiny stream by the roadside, the shooting, of the green blade in the spring, the nodding buttercups, the goldenrod, the tall bull thistle, the early dropping apple with its ...orm hole, the ball of black knot upon the cherry, the jump- I shall close this paper with the con ing grasshopper and the hundred of cluding paragraph of that address: nature's children, should attract the attention of our children out of doors, schools may be very limited, but if

It is a method fraught with born of ignorance but of true knowlthe danger of spending too much time edge. Nature in the country, in the and attention on abstraction and village, in the town, and, to a limited theories, on words and notions instead sense, even in the city, lies before our of things. The history of a bean, of a children as a great unnoticed, unmeangrain of wheat, of a turnip, of a sheep, ing book. Our children by their natof a pig, or of a cow, properly tated ural sympathy with nature, and by of chemistry, physiology, and so on as through us to the great Creator of nathey come in-would give all the ture. "Open thou mine eyes that I elementary science which is needed may behold wondrous things out of

of agriculture, in a form easily assimi. Another objection that comes up in lated by the youthful mind, which the minds of some, and that even finds loathes anything in the shape of long expression, is that agriculture is not on words and abstract notions, and small a high enough plane, that there is more dirt than diamonds in it, that I have already mentioned one mist there is lacking the æsthetic element. conception that has retarded the in Those who think and speak thus have troduction of agriculture as a perma evidently not given an honest connent part of our school system, viz., sideration to the subject or are not the idea that it was intended to give aware of the marvellous progress of some instruction in the practice of agricultural science in the past fifty agriculture, whereas nothing should be years. I have, I think, answered this attempted but the first principles of by saying that the science of agriculthe various sciences that are connected ture is nothing else than a comprehenwith or underlie agriculture, taking up sive grouping and intermingling of the the application of these sciences to other sciences that are now studied in our schools and colleges.

I could, had I time, discuss the pospart of some persons to try to do too sibilities of increasing our agricultural We must not crowd too much wealth by a general dissemination of on the young mind, or mental dyspep-agricultural information among the sia will result, followed by a loathing rural classes. Our annual agricultural The product is now about \$250,000,000 in Schools, should be very simple, very could prove even to those of you who restricted, and should call into activity are not farmers that this can easily be the open eyes and open ears of the increased by twenty five per cent., and a sum added to our annual product that would cause the tales of the Yukon to sink into insignificance.

In 1892 I addressed the Provincial Teachers' Association upon this sub ject, and my opinions of that year are stronger and more decided in 1898.

"Instruction in agriculture in our

nothing more be done than to start more and to read more about agriculour rural pupils thinking, to give them tural affairs, and especially to increase an impetus or a turn in the right direct in them a respect for their work and a tion, to develop in them a taste for pride in their calling, then the most agricultural study and investigation, important end of their education will to arouse in them a desire to know have been attained."

SOME SCHOOLMASTERS OF FICTION.

of Queen Elizabeth's days. Vindex afraid of his superiors. The moment Brimblecombe was a man whose bark he thought that his patron was blaming was worse than his bite, whose out- him, he went on his knees, and talked ward exterior was coarser than his inner as no self-respecting schoolmaster being. His only argument was force, could talk nowadays. He believed in the potent virtue of the result of his general character, he was rod, and, to borrow a word from the not hild in any high esteem by the "Day Dreams of a Schoolmaster," townspeople, else they would not have tattooed his pupils with wisdom and saluted him in the procession with the knowledge. Yet, at bottom, he was cry, "Who stole Admiral Grenville's kindly, good and well-disposed. But | brooms because birch-rods were dear?" the continual infliction of physical punishment had weakened his self-control, so that he may have almost learned to take delight in the pain he caused. Look at his exclamation: "Come hither, sirrah, or I'll flay you alive!" and the evident joy he felt in flogging Amyas after Sir Richard Grenville had senthim back. One cannot help laughing as heartily as the latter gentleman at the shrewd stroke on the pate that laid him low. In the prevailing fashion of the time, he bestrewed his speech plentifully with Latin phrases and classical quo tations. Indeed, it is a puzzle that one so learned had to seek the help of Mr. Francis Leigh in writing the short Latin epigram. It may be inferred that the rough-and-ready method of teaching which Mr. Brimblecombe used had not only weakened his self control, but also somewhat impaired his moral character: for he seems to have listened to his son's tales, even if he did not, as Sir Richard Greek read at sight, except by a man

IN "Westward Ho!" Charles Kings-|"eaves dropper and favor-currier." As ley has given a picture of a man who is usual with men who are haughty to was probably a typical pedagogue their inferiors, he was excessively

On turning to the pages of that wonderful romance, "John Inglesant," we find slight sketches of two men far different from the above in character. though not so far removed in time. Though they were clergymen in parishes also, it is a relief to picture the contrast between them and their forerunner. The second of the two had an easy and attractive way of teaching. Either from deep interest in his pupil, or from true humility, he used to read to him the treatises which he wrote in Instead of filling him with useless grammar rules, he gave him that facility in classical translation which is so useful a thing, but which is so often found lacking even in a classical scholar. The present lack of this power is deplored by Professor Miall in his "Thirty Years of Teaching": "I think I am not putting the case too strongly in saying that you will hardly get a page of Latin or easy thought, employ him directly as an who has taken classical honors, or has

followed classical studies for several needful for the true schoolmaster. people held him. thoughts!

In the "Choir Invisible," there is a men." picture of a Kentucky school and mas ter of a hundred years ago. Some of Bede" is a favor te character with the touches in it are wonderfully true to hose who study numan nature in the life. When John Gray was ill after pages of novels. His opinions on his fight with the cougar, the boys and women were peculiar to himself; but girls came to inquire how he was, but there may have been pages in his life "there was no disguising the dread they all felt that he might soon be vindication if they had been opened. well." "Wee Jennie even came up How well we know his I tile roomwith her slate one day and asked him almost as well as Adam Bede himself to set her a sum in multiplication, did-with its faded map, its ear of In-He did so; but he knew that she dian corn, and its specimen of the would rub it out as soon as she could master's handwriting. But more interget out of sight." Again, most vivid esting than the room were its inhabiof all, "a toiling slate pencil grated on tants, those laboring men striving to its way as arduously as a waggon up a improve themselves. What patience

years after leaving college." This "It was this religious purity of his clergyman also insulled into John the nature and his life, resting upon him charm of Plato's philosophy, and gave as a mantle, visible to all eyes, but into a mind already dreamy a bias in visible to him, that had, as Mrs. Fal-favor of mystical studies. This, per-coner believed, attracted him to her so haps, was not the highest wisdom. Yet, powerfully." See how he joined in his who to day could improve on his last children's games—the mimic repreadvice. "Hear what all men say, but sentation of backwoods life, with all follow no man; there is nothing in the its perils from Indians—and the more world of any value but the Divine real game of turning the schoolroom Light—follow it. Attach yourself to into a fort and leaving him to force an the King and the Church party, be entrance by sheer strength. There is cause you are not placed here to rea much to be learned from his history son, but to obey. Remember it is the lesson. He made it real and lifelike very scal of a gentleman-to obey." by taking his boys into the open coun-The previous clergyman, who had try and letting the places they could taught John Terence and grammar, see stand for the places he wished to must have been an equally worthy man, describe. He applied it to their to judge from the esteem in which his future lives by drawing therefrom the His large melting moral lesson that they would never do eyes marked the inward soul that anything in the world without courage, leaped out to meet those who needed but that courage must also be used in help. His words show that his influ- a good cause. His little speech when ence must have been altogether in the he bade farewell to his school was just direction of training his pupil's char- as manly and full of advice. He told acter. "Earth becomes to us, if we his children what their parents had thus think, nothing but the garden of won for them, how proud they should the Lord, and every fellow being we be of them, and how they should strive meet and see in it, a beautiful and in- to be worthy of them. He told them vited guest." Would that all school- to be both brave and grave. "And the masters to day were as full of devout hest thing I have to say to you is: Be good boys and grow up to be good

The old schoolmaster in "Adam that would have formed a complete hill." John Gray had the character Bartle Massie showed with their strug

tured for us. Master Arfoll had should be proud of such a son." passed through the terrible scenes of In George Macdonald's "Alec

gling efforts to do their best! "It country, teaching wherever he could, was almost as if three rough animals but generally in the open air. He were making humble efforts to learn was a welcome guest in the houses of how they might become human. And his pupils, and received presents in it t uched the tenderest fibre in kind, though not often of money. Bartle Massey's nature: for such full- Sill, he was quite happy and congrown children as these were the only tented with his mode of life. An air pupils for whom he had no severe of mystery hung around him, for none epithets and no impatient tones. He knew aught of his early life, and his was not gifted with an imperturbable face was the face of one who had temper, but this evening his eyes shed passed through great troubles. He their mildest and most encouraging was not a worshipper at the shrine of light on Bill Downs, the sawyer, who Napoleon, like his contemporaries, and is turning his head on one side in the tried to instil into his pupils the gosdesperate sense of blankness before pel of love and peace. How interestthe letters d, r, y." Yet he could be ing is the picture of his little class—a outspoken and tell some plain truths to peasant of twenty-five, a youth of those who needed them. He was eighteen, two girls of fourteen, two severe on the two yourhs who were boys, and two small children! How learning how to do bills of parcels, but ill-assorted they are, and yet how pagave no heed to them in their spare uent he is with them all! His whole time. "You think knowledge is to be treatment of his oldest and dullest got cheap-you'll come and pay Bartle pupil is the following of Ascham's Massie sixpence a week, and he'll words that there is no such whetstone make you clever at the figures without of wit as praise. His little prayer your taking any trouble. But knowl- showed that he valued the opportunity edge isn't to be got with paying six- of influencing his pupils' characters. pence, let me tell you. If you're to His last words to Rohan showed his know figures, you must turn them over inner strength and the secret of the in your own heads, and keep your magnetic power he possessed over thoughts fixed on 'em." With all his those about him: "It is wrong to crotchets and whims, he was a very acquiesce in evil, even to save one's kindly man, and concealed the truest life; it is accursed to draw a sword for of hearts under a somewhat gruff exithat man, even though France itself is terior. How many men would have threatened. I weep for thee as for my done and cared for Adam Bede as helown child, to see thee so troubled, so did during the trying time of the trial. | pursued; but I say in my heart, 'God In the "Shadow of the Sword" yet bless him! he is right—he is a brave another type of schoolmaster is pic-; man; and, were I indeed his father, I

the French Revolution, and was now Forbes of Howglen," there is a Scotch spending the latter part of his life in dominie who was near akin to Mr. teaching. He was lean and stooping; Squeers and Mr. Brimblecombe in the his limbs were shrunken; and his face methods he used. He brings to one's was weird and uncanny. But when he mind involuntarily the words of Chansmiled on those he loved, it lit up, and ning, that the boy condemned to hear "you would have said then, a beauti- the voice and undergo the régime of a ful face, as one who looked upon harsh and cruel man is placed in a angels." He had no fixed place of school of vice. Fancy a really refined residence, but wandered about the man using the following instrument of punishment. "A thick strap of horse- whom the first part of the story cen-hide, prepared by steeping in brine, tres, a push that nearly threw her on black and supple with constant use, her face. "It was days before she reand cut into fingers at one end, which covered from the shock." The boys had been hardened in the fire," The of Malison's school were well able to tender souls of his little children must read the bar meter of his face and aphave sunk within them every time they pearance. Blick stockings instead of saw such a ferocious looking weapon, white were regarded as a b d omen, There was a pale-faced, delicate boy and generally foreboded an unhappy who blundered in reading, and each day. The most curious trait in him slip he made brought it about his legs. was the utter difference between his That was alluring to the brigh fields school character and his private charof wisdom. Murdoch Malison, the acter. "The moment he was out of master, was a hard man, with severe, if school—the moment, that is, that he not cruel, temper, and possessed by a ceased for the day to be responsible savage sense of duty. Yet he wished for the moral and intellectual condidoubt whether the discovery of a boy's deportment, of the man changed. He to him." Not to boys only, but even and behavior as any mother could to girls, was he rough. He once gave have desired."—Educational Times. Annie Anderson, the little girl round

to be just. "He did not want to tion of his turbulent subjects—the punish the innocent, it is true, but I whole character, certainly the whole innocence was not a disappointment was now as meck and gentle in speech

ARE WE'GOING RIGHT?

Last week we referred to a danger, child, the funny little fellow, and the of exactly one pattern, without the slightest idea of individuality, and woe betide teacher or scholar who cares do or say anything not allowed or sights in Toronto is to watch one day's movement of every child is carefully Ontario. watched and ordered according to the

menacing the moral well being of sober, old-fashioned fellow are all com-Canada in the "namby pamby" legis- pelled to walk, talk and learn exactly lation so often thrust on us. We now alike. It may read like a joke, but it desire to come down to facts, and to is an absolute fact that if a child acdeal with some of the mischievous cidentally allows a pen, pencil or other methods of the present day. Our article to fall, he or she must not stoop school system has been so "cribbed, to pick it up except in the manner cabined, and confined" by laws and provided for by a cast-iron rule, and regulations that a teacher is a mere children have been punished for pickmachine, doing everything by rule; ing up articles they had dropped in the children are all treated as machines violation of some of these rules. The only other institution in Toron'o where such cast-iron rules exist and are enforced is the Central Prison. amount of red tape an' the number provided for in the manual of several of cast-iron rules connected with our hundred classes of instruction and Public Schools give us inferior teachguidance. One of the most curious ers, inferior teaching, and is largely responsible for the increase of insanity proceedings in a Public Schoo'. Every and the amount of juvenile crime in

Insanity is often caused by the conmanual. The dull child, the smart stant cramping and restraining of energy which should have been allow the great public schools of England proper channels. sults from this.

groove.

knowledge that he or she was training linquents. for eternity, and knowing that the never to enter its portals again.

our ideal too high. That is impos. These are, briefly, some of the

ed freer course and directed into and Scotland, and has produced the One of the very men who rule the Empire, the men worst evils of our day is the want of, who in peace and in war have upheld proper care on the part of parents and the honor of Britain everywhere. eachers in dealing with children, and When these men were boys at school the practice of training, or at empling there was no sentimental humbug to train, all in one groove. Mediocrity then, nor is there now, about the use must result, and idiocy frequently re- of strap or cane for punishing the wrongdoer. There were and are no Akin to this evil is that of parents, notes sent home to parents asking for deciding off hand what their children permission to punish, and no debates are to be and setting about the train-among the managers or governors of ing of them for some profession or the school, on the question, such as calling for which they are utterly un have made us ridiculous, and given suited. These unfortunates turn out the roughest element in the schools of miserable failures in life, and ofter, be Toronto and Outario the rule in the come criminals, except in a few rare classes, and allowed them to drift into cases where they have sufficient force come, dragging with them the chilof character to strike out new lines for dren of respectable parents. There themselves. The remedy must begin are in every city and country with the school system, for we are district a class of boys who at a certraining generation after generation in tain age are deaf to all arguments but the machine style, and it is difficult to a birch rod. These boys defy teachget the people so trained out of the ers, defy parents, and are taken to the police court. There they are first The first step is to liberate the given a nominal sentence, or a caution, teachers. They must have the right and in a few hours they are to be to use the gifts God has given them in found in some shed or open space surthe best way they can. The only rounded by an admiring group of other rules by which they should be guided boys. The culprit has become a hero, are those of plain, ordinary common and boasts of his escapade. Had he sense. The children would then be got a sound caning by a sturdy police under teachers possessed with the officer, he wou'd have been no hero, spirit of teaching, inspired by the but a salutary warning to all other de-

When a child does wilful or acmeasure of success was not the arount cidental damage to the property of of mere book knowledge which could any one the parent should be made to be crainmed into one little skull with- pay the cost. Should a boy grow up out bursting it, but the preparing and a mischievous lad, or mix in evil comtraining of the scholar to seek knowl pany, his only chance of safety lies in edge in the right direction, to love the judicious use of the birch rod. At knowledge, and to fill the pupil with school the pupil of evil disposition the desire to continue to learn even if will be tamed by a wise teacher, who at the close of any lesson he or she uses the rod on proper occasion, and should pass out of the schoolhouse with proper severity. The boys, too; might he put under male teachers the We will be told that we are placing moment they leave the junior classes.

sible; but our ideal is in practice in remedies which must be applied in

tyranny and juvenile crime and have will sink below the level of true men.our Dominion inhabited by a race of Orange Sentinel, Toronto, Feb, 1899. brave, manly people, and not by a

our school system if we are to check | namby pamby, smooth-faced set, who

PRINCIPAL KIRKLAND

Normal School, Thomas Kirkland, M.A., was born in Ireland, and received there his early education, partly in the Normal School established in Dublin in connection with the national school system. In 1854 he came to Canada while still a young man, and commenced his professional career as assistant master in the Oshawa Public School of which he became head master in the following year. After filling similar positions for some time in Whitby and Toronto, he taught till 1863 as mathematical master of the Barrie Grammar School, and in that year became head master of Grammar School in Whitby. His suc cess in this sphere of educational work was so marked that, on the recommandation of the late Frofessor Young, formerly Grammar School Inspector, in 1871 he was appointed science master in the Toronto Normal School, the late Rev. Dr. Davies being principal. On the retirement of Dr. Davies, in 1884, he was promoted to the principalship, which he cocupied till his death on December 31st, 1898.

Throughout his whole life Mr. Kirk land was characterized by an insatiable desire to add to his own fund of scholarly information, and he was to the last unwearied in his acquisition of knowledge. As he had not an opportunity of obtaining in early man hood the advantage of a University training he applied himself to secure a University degree by private study. He graduated B.A. in the University of Toronto in 1870, and in the follow-

The late principal of the Toronto the last, keeping himself abreast of the most progressive of the physical sciences, and devoting most of his time to the study of English literature. He filled for many years the chairs of Chemistry and Botany in Trinity Medical College.

When Mr. Kirkland joined the staff of the Toronto Normal School, and for several years afterwards, the course prescribed for the students in that institution was academic quite as much as pedagogic. Subsequently, the system of Departmental examinations was so modified as to secure on the part of each student at entrance the standing of a second-class teacher in all non-professional subjects, and the work of the session became raore strictly a training in Psychology, Methods, and the Theory and History of Education. On this new line Mr. Kirkland kept pace with the requirements of the position, and to the very last familiarized himself with the most modern aspects of such subjects as "Educational Values" and "Child-Study."

The educational activity of Mr. Kirkland was by no means limited to the efficient discharge of his professional duties. In 1873, when representation on the Senate of the University of Toronto was granted to the graduates of that institution, he was one of those chosen to the position. In that capacity he devoted himself zealously and effectively to the work of reforming and modernizing the Artscurriculum, particularly in the requirements for matriculation. He became ing year took the higher degree of largely instrumental in securing from M.A. Pe was a zealous student to the Senate recognition, by means of

local examinations of culture work was during the who'e of his life in always exercised for the repeal of social religious education. restraints formerly imposed on students; elected last Easter to the Presidency of the Ontario Educational Association, a position which he filled at the time! If his death.

to promote the welfare of his fellow the wider circ's in which she moved men in ways outside of but not incom- with he: late partner in life. patible with the teacher's calling.

done extra-murally by women, who Canada identified with the Presbywere not at that time permitted to terian Church. Throughout his long acquire full university standing. The residence in Toronto he was a member beginning thus made was by him and of the session of St. James' Square others persistently followed up, until congregation, and he was for much of more than a decade ago all disabilities that time the teacher of one of the based upon difference of sex were re- Bible classes. He was for many years moved, and the advantages of the a member of the Senate of Knox Col-University thrown open to all on the lege, and in that capacity he was able same terms and conditions. At an to render useful service, on account of earlier period, Mr. Kirkland strove his long and varied pedagogical expense earnestly for the abolition of the dis-ence, his enlightened educational crimination against girls in the second- views, and his scholarly attainments ary schools and his influence was within as well as outside the sphere of

Mr. Kirkland was married early in of the Normal School. It was a fitting life to a daughter of the late Rev. Dr. recognition of his breadth of view, Thornton, pastor of the Presbyterian earnestness of purpose, devotion to church at Oshawa, and sister of the duty, and thoughtful sindliness to his Rev. Dr. Thornton, formerly of Glasstudents, that he was unanimously gow, and now of London. England. Successive classes of Normal School students do not need to be reminded how much she did in the way of unostentatious hospitality to make their It is not out of place in this sketch sojourn in a strange city pleasant to of Mr. Kirkland as an educationist to thein. Their heartfelt sympathy will call attention to his unwearied efforts be extended to her, along with that of

SIGMA.

THE NORTH-WEST—CANADA.

Oh would ye hear, and would ye hear Of the windy, wide North-West? Faith! 'tis a land as in as the sea. That rolls as far and . is as free, With utilts of flowers so many there be, Where the cattle roam and rest.

Oh could ye see, and could ye see The great gold skies so clear, The rivers that race through the pine-shade dark,

The mountainous snows that take no mark, Sun-lit and high on the Rockies stark, So far they seem as near.

Then could ye seel, and could ye seel How fresh is a western night! When the long land breezed rise and pass And sigh in the rustling prairie grass, When the dark blue skies are clear as glass, And the same old stars are bright.

But could ye know and forever know The word of the young North-West! A word she breathes to the true and bold, A word misknown to the false and cold, A word that never was spoken or sold, But the one that knows is blest. -Moira O'Neill Blackwood.

EDITORIAL NOTES.

Deliver not the tasks of might To weakness, neither hide the ray From those, not blind, who wait for day, Tho' sitting girt with doub fal light.

That from Disc sion's lips may fall With Life, that working strongly, binds-Set in all lights, by many minds, So close the interests of all.'

In the Bill introduced this session by the Minister of Education there is reference made to the Continuation Classes in Public Schools in places where there is no High School. There has been an uneasy feeling about these classes ever since they have been started. We have been asked to look into the question, but have so far refrained, because the history of their career is so short. It is alleged that the old evil of payment by results is in operation in connection with these Also that payments are made direct to the parties interested by the Education Department.

concerned if more and fuller information were given to the country about these classes. It has always seemed to us that more conditions than the absence of a High School should be applied before the formation of one of these classes. Would the friends who have some experience of these classes let us hear from them?

How has it he about that, of all time. workers in whatever field you may select, no worker receives so much advice, wise and not so wise, from persons not in the profession of teaching, and even, unkindest of all, from his co-workers, as the teacher does. To keep the teacher in his proper place, and in a proper humbieness of mind and spirit, he is frequently reminded that it is only quite recently that if a soldier lost an arm or foot, or an eye, or if a man or woman were incapable of digging potatoes rightly or in sufficient quantity, or, finally, to

keep a fellow subject off the poorrates, the ready remedy was to make a teacher or him. We have no time just now to discuss the probabilities of a soldier, who lost an arm in defence of his country, becoming an efficient teacher, for the obvious reason that cases of this kind are not likely now to offer for our consideration. The educators who appeal to INTEREST as the chief if not the only force to use in teaching never tire of reciting the cases of masters who perhaps unduly emphasized the coercive force in the conduct of school, and by so doing, in so far as in them lies, weaken unnecessarily the hands of the breth-It would be to the satisfaction of all ren, and therefore hurt the cause of true education. We much doubt if the cause of education was really helped or benefited by Mr. Charles Dickens' representation of such a man as the teacher in Our Mutual Friend. We hope and believe that it would be exceedingly difficult to find such a man anywhere in actual life, not to speak of an approach to such an one in teaching not only now but at any

> The social standing of the teacher is not generally a matter of much worry to the members of the profession, if pro ession it is to be called. since the days when the Athenians sent a schoolmaster to train the Spartans out of some of their intellectual deficiencies, there has been a tell-tale light in some people's eyes against the ascendancy of the schoolmaster in the higher walks of social life, and even against his very admission to these walks; and we do not think our liter

ary men have done ve nuch to re- due recognition of the teacher as an move the prejudice, as may be seen important social factor. present month.

little in it, save the money element. A countenanced the better. highest kind of respectability.

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their backs upon those who are now doctorship.

The custom from one of our selections for the of granting honorary degrees to men In Canada there is of money or political influence, who much of this prejudice still lingering-possess no tittle of scholarship that much more than in the United States can honor the gift, is one which is and when an attempt is made to fast detracting from the dignity of the trace it to its origin, there seems to be University, and the sooner it is disschoolmaster (and were we to say in Majesty to confer knighthood upon more general terms a teacher the truth the millionaire who has liberally given would become even more palpable) - of his wealth to foster some university a schoolmaster seldom, if ever, be or other has in it no element of uncomes wealthy directly from the emol- fitness, no matter how the money has uments of his office, and the secular been made nor how far the donor professions that are not productive of may be from the standard of the wealthy men are not nowadays held higher intellectualities, since it is the in very high repute anywhere and pos- act of generosity that has chiefly been sibly held in less repute than elsewhere recognized; but for the University to on this North American continent, fo'low this up by granting a degree, where everyone seems to be in the rush which ought to carry with it the and tumble of it to make money, what stamp of the higher intellectualities. ever may happen to them and theirs, on one who does not possess them nor This seems to be the main cause of ever will, is surely to infringe upon the social disability to which the school- the fitliness of things to the point of master is too often subjected, and even absurdity. But as if that were not far the Monthly, eager as it is to help the enough to go, on the part of instituteacher, is unable to suggest a remedy, tions that have been created to protect saving to mention incidentally that in society from going to decay in the tegrity of conduct which is able to fripperies of life, some of them have make for the man who exercises it the taken upon themselves the task of the drawing-room grande dame, to separate the sheep from the goats, with the There are, however, ready to hand schoolmaster, as a general thing, means enough to elevate the social classified with the latter. That the standing of the teacher, if that be Common School should be in line really a consummation devoutly to be with the University in its course of Thousands of our citizens study is one thing, but to recognize the began life as teachers, and those of teacher as an element in the line is them who have reached the higher another thing. The time was when walks in life should not forget how the University delighted to do honor much easier their climbing up would to the industrious schoolmaster, and have been but for the supercilious very few of these best trainers for the neglect of those who could not have University classes were allowed to possibly injured themselves by accept- pass away without having besto red ng honest worth at its "face value," upon them some mark of the Univer-In their success they should not turn sity in the shape of a degree or a But now the doctorfixing their places. But surely in edu | ships are all for the mcn of means and valional circles themselves there ought influence and wonderfully high standbe no "let or hindrance" to the ing, while the poor schoolmaster plods on unrewarded, unhonored and un Yes, Mr. Secretary, you have a bigger sung, and so it has come to pass that the schoolmaster whose highest function is to prepare young people for the higher citizenship is to some extent ignored by the very institution that has been created for the sole purpose of preserving the main features of that higher citizenship.

such an unimportant matter as the social standing of the teacher when he or she continues actually to struggle the late Hon. Mr. Mercier know, and for daily bread. Some person or other is this detractors too. Even in the cities ought to be made do in face of the school work of the day-school, after pressing needs of society, but it is only the pupil has been obliged to go to now and again that we hear of the re- work, has been carried out in the sponsibilities of society towards the night schools of the Society of Arts teacher. A certain Secretary of Agriculture enlarges in his report upon the sidized by the local government. need of nature-teaching in the common interest in education that relates to production, and all classes of intelli-munity, if its promoters realize all they gent people favor it. More knowledge, look for from it. The School Guard by the farmer of what he deals with ian, in an editorial about the matter, every day would enable him to control says: "Recent figures have revealed conditions, produce more from an acre an alarming irregularity in ordinary and con ribute more to the general school attendance. Parents and school welfare.

And this is how the editor of the Moderator replies to him: "Mr. Wildifficulties are to overcome the conservatism of boards managing country schools and to get competent teachers. Yes, there's the rub. Conservatism and false ideas of economy! In some of the counties of this state there are wealthy districts that pay the schoolteacher but \$16 per month, or from that to \$20. This teacher must board herself, but her clothes, and fit herself as a character builder.

contract on your hands than the introduction of the sugar beet, viz. Educating the conservative school boards to recognize and pay for the difference between school keeping and school teaching.

An excellent idea comes from across the water in reference to what have But what need is there to worry over | been called "evening continuation schools." The night school is not a new thing in Canada, as the friends of always enlarging upon what the teacher of Quebec the idea of continuing the! and Manufactures, which are sub-But the "evening continuation school" is He says there is a growing to become in England a general element of education in every comars alike in towns, and school authorities in addition in country parishes, are looking forward eagerly to the time when children can be emancipated son's report suggests that the greatest from the thraldom of by-laws and regulations. It is greatly to be feared that in tens of thousands of cases the little knowledge acquired in school is allowed to be forgotten as quickly as possible. Every friend of education looks with dismay upon the poor, un worthy conception of the value of school vork. We do not propose to deliver another homily upon the low standard of interest in agricultural dis The tricts, or to repeat the familiar charge farm hand that fats the hogs, fodders against farmers and others who want the cattle, yards the sheep, breaks the cheap labor. We think we can better colts and cultivates the ground gets serve the cause of true educational better pay in these same counties, progress by pointing out how defects

may be remedied. In the last genera tion many clergymen laboured faithfully amid much discouragement in night schools. As a rule, a few could be found who wanted to learn more. and to fit themselves for some better nosition in life. The work was carried on without recognition and reward by clergy and teachers who had a zeal for the good of the young people. this is now changed. The grants given are most liberal, and evening schools can be conducted without any financial loss so as to give a welcome addition to tile salaries of day school teachers. Nothing more is wanted in any parish than the will to begin. We know how stiall the demand often is, and that the school may not contain more than half a dozen or ten pupils at first. It is not, however, worth while to try with such humble beginbings. We may wait long before a general spirit of interest is to be found in every parish. It rests with the clergy in most instances to hasten the day, and they best effect this by seeking to carry the education of their houng people a little further."

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And, in further advocating the sys-; tem, the same paper says: "In many yillages the first necessary work is sufficiently humble, and lies in reviv-In some towns it has been possible to thought to Evening Schools."

make the Evening School a training ground for those seeking commercial life and qualifying for positions in business houses. This will not be possible in most villages. The boys and girls will be found very often to have forgotten much arithmetic and to be wholly ignorant of the meaning of comparatively common words. tentious syllabus of botany, political economy, geology, or chemistry is wholly out of place. The young tolks must simply be taken as they a e. and some time will have to be spent in the old, familiar subjects of reading, writing and arithmetic. In process of time a reward will come to those teachers who will persevere, and there will be less urgent need for instruction in elementary subjects. Indeed, we feel convinced that, in the establishing of such system а schools, there lies a great opportunity. Children should be encouraged before they leave the Day School to join the Evening School before their desire for knowledge has gone and their books have been forgotten. Where older scholars can be obtained they should be taught, if possible, in another room, because the presence of a younger element lessens the attendance of older pupils. convinced that the clergy cannot serve ing, rather than in continuing, the the cause of ed cation better in vilknowledge acquired in the Day School. lages than by giving both time and

Women figure very prominently in | B.A. degree, marked in the examination for the three.

twenty-eight securing the University of London pass lists just places in the first division and seventysued. In the examination for the three in the second. Out of an aggregree of Bachelor of Science fourteen gate of 303 names in these three divisomen obtained places in the second ions 115 are those of women, a pro-Inision. Their success was even more portion of rather more than one in

CURRENT EVENTS.

The occupants of the chairs in our. best universities and colleges form a considerable portion of the trustees of our intellectual wealth. Upon the wis dom of their leadership depends in no small measure the growth of a whole some interest in the higher ends of existence and the soundness and roundness of our national life. If these institutions of learning are to continue to exercise that marked and elevating influence which is in great part their raison d'etre, it becomes increasingly necessary that the incentive to devote one's life to this service, to be one of those who maintain the university as a center of intellectual influence, shall appeal strongly to the ablest and most promising young men. It becomes increasingly important to furnish the professor with an environment which shall develop to the utmost the efficiency of his services and his personal satisfaction in his calling. It would be difficult, even with unrestricted means and opportunities, to determine how best to foster and encourage men of intellectual supremacy, and through them to impart to the national life a lofty, intellectual tone, the spirit of a liberalizing civilization; it is fortunately an easier task to indicate some of the unnecessary restrictions and notable deficiencies which at present impede the advancement of learning and prevent the environment of the professor from reaching even a reasonable approximation to the ideal. Among such restrictions three are particularly conspicuous: the professor's lack of a proper income, his lack of proper authority, and his lack of proper leisure. To begin with, the professor is admittedly greatly underpaid. With President Harper as our guide, we may learn that the average income of the professor is approximately sixteen hundred dollars, and that all but a few of

serious problem in domestic economy, lin devising ways and means for making both ends meet; further, that the professor is on a par financially with conductors, machinists, foremen of works, and other occupations of like grade, and that "there is practically no class of college professors whose pay is on a level with the pay of men in positions of first or second rank of responsibility in the industrial community." As a mere matter of justice, President Harrer concludes, the professor's salary should be increased by fifty per cent .-- which is indeed a conservative estunate. Hardly less serious than the inadequacy of the professor's income is the inadequacy of his author-The real government of our colleges is largely in the hands of boards of trustees. In many institutions the professors have almost no voice except in matters of curriculum and student management, and even in these their decision is often subject to revision by other authorities. The essential policy of the university, the vital ques tions that determine the nature and direction of its growth, are but meagerly and unauthoritatively considered by the faculty; and questions that involve expenditure of funds are regarded as obviously out of the pale of While fully professorial jurisdiction. recognizing the important services rendered by boards of trustees to our colleges and universities, it may none the less be confidently maintained that many of them are sadly "over-trusteed." The direction of reform, the side toward which the pendulum must swing, if an equilibrium is to be restored, must be in the direction of an increased authority, a more intimate share in the government of our higher institutions on the part of their facul-The inadequacy of the Amerities. can professor's leisure may likewise be the profession have to contend with a traced to some extent to the commercial view of his position. are apt to be ignored. The commer taken ideas of what it should be. been accomplished in schools, and such work comes as an coveted by ambilious mothers. to keep bright the sparks of original wearisome and worse than profitless. effort that in him glow; time for his own self-development. The university atmosphere, which is after all the most essential part of the whole, must be an possessed of that rare and admirable atmosphere of scholarship; the life there led must be dominated by a lofty, leisurely, intellectual tone. The professor should stand as a centre of such influence, by example and by precept, giving and receiving that which lightens the burdens and makes real and earnest the aims of life. - December Educational Review.

The recent verdict upon a wellknown debutante suggests the possi bility in the present age of other doors of the words and deeds of others. opened only by keys of beauty, wealth from her standpoint, be inexcusableand pride of birth. That "best society /" even cruel.

The value ing grades it must be consented as of his services is apt to be judged by uncertain, both in quality and quanfalse standards; the special conditions tity, the worst oftentimes ranking as necessary to the success of his work the best through ignorance, or mis-

cial conception is that of a certain. To return to the "bud," "without number of hours engaged in a certain riches or beauty she was so cultured. occupation Moreover, in many col well bred and tactful as to become at leges work is done which should have once a general favorite," in other preparatory words "a success," the one thing most added load to a heavily burdened reviewing her specified attractions worker. But whatever the causes, the justice compels that the triumph be fact remains that the professor is as credited to herself, rather than as unjustly overworked as he is underpaid; result of inheritance, position, or that and the most disheartening aspect of all important personage, grandfather? his excessive toil is the necessary de- "Culture" was the first claim, doubtterioration of the quality of his ser less in a degree to render her a bright It cannot be too emphatically pleasant companion in whatever direcurged that the scholar needs leisure, tion conversation chanced to lead. freedom from care, time for contem | Familiar with books, pictures localities, plation and reflection; time to keep and in touch with topics and events of in touch with the progress of the general interest, she was not dependworld in the line of his specialty; time; ent upon the small talk and gossip so

We are also told that the little blossom of society's approval was also "tactful." Blessed be the woman quality which means so much of comfort and happiness to others. formly courteous and alike mindful of old and young, she is a source of pleasure to all. How beautifully she turns the awkward corners of life for those about her. The men or women ill-at-ease are drawn into channels of thought and conversation until they are at their best, self-consciousness lost in real enjoyment. The woman of tact says only kind things, avoiding discussion, criticism or condemnation to "the best society," aside from those wound the feelings of another would, That she may speak What is it? In its highest sense words of cheer and encouragement to based upon culture, refinement, mor- others, she put aside her own burden ality, and with the golden rule as its of trial and perplexity. Her standard motto, it is with fixed standard, "lovely of true worth is not influenced by and of good report." Alas! in vary-money, position or clothes, her closest

friend often the plainest dressed cooking by electricity. woman of her acquaintance.

In summing up (quoting from an) woman of tact?' "She is the best type of Christian, in as much as her loving consideration makes other women long to imitate her. Under all circumstances and in every condition in which she may be placed she is She can receive truly courteous. the unwelcome guest with a smile so bright and handshake so cordial that in the effort to make it so greeting The woman of tact becomes sincere. is one whose love of humanity is second only in her life's devotion and whose watchword is unselfishness in thought and action." Christina Rossetti says "tact is a gift; it is likewise a grace. As a gift it may or it may not fall to our share; as a grace we are bound either to possess or acquire it." Whether hers as "gift" or "grace," the "sweet debutante" possessing this wonderful power for good will unfold into the beautiful flower of perfect womanhood, as " Heart's ease " in her her sphere of love and duty. Somebody has said that "uniform politemake a lovely sinner." Supplemented by culture and tact we may be assured of the "best society," and possibly find ourselves enshrined as "saints" in the hearts of those who know and love us best. Wno knows? One thing is certain, in cultivating tact aright we may make other lives happier and bless our own by a service acceptable in God's sight.—Table Talk.

We hear a good deal of talk about the giant strides of science and things like that. I suppose it does seem to be getting over the ground when you look at it from one point of view. But in another way it seems fairly to Fir instance, twenty years ago

Now you would think that in twenty years a process like that, one which comes Exchange) "What is the veritable home to every household, would have been adopted everywhere. And seven years ago the papers were full of the descriptions of the Peabody house in Brooklyn, where the lighting, heating and cooling, washing, ironing and cooking were all done by electricity. People predicted then that the finish of the coal ranges and gas stoves was in sight. But I notice that the stove makers are still doing business and they don't seem to have a lean and hungry look.

The invention of a thing isn't all that's necessary. That's only the first step. If you can't make your invention do its work as cheaply as it rivals you will never get the world to use it. Cooking by electricity is hardly any further along than it was five years ago, and it won't be any further along until it gets to be as cheap as gas or coal. That time is coming slowly but surely nearer; in the meantime, though, you won't find many home, and in the little world which is electric kitchens outside of exhibitions. They have one down at the Edison Company's new plant in Duane street, ness may not make a saint, but does but that doesn't count outside. Every Friday luncheon is cooked there and served to the staff, and the kitchen works all right. The trouble isn't in the working, any way. It's in what the working costs.

It's as hard to push a new device in electrical household appliances as it is for some people to get into society. Take electric curling irons, or rather, the heaters for these irons. go into the new hotels, where there are electric lights and the only way in which they can heat a curling iron is to use an alcohol lamp. There is more damage done to furniture and carpets and hangings in this way than would cover the cost of the hotel man of providing the attachment for heatthere was in London an exhibition of ing the iron. Yet I know of only one find that convenience.

wires strung. many of them have an office wire as he wishes. which taps the street wire and use very slowly.

is a portable light such as a house- upon as an extravagance. stances where the usual seeker carry- filament itself.-N. Y. Sun. ing a lamp or lighting matches is apt to be landed in a hospital immediately moved.

hotel in this town where a woman will side a bed or set in a chair with wires connecting it with the battery. One trouble in getting private houses the workshop a clever new arrangeto use electricity is that they don't ment is a socket for an incandescent want to tear up the house to have the lamp, which conceals the windings The fine new houses of an electro-magnet and has its core are being provided with electric wires extending through and beyond it at in the building, and many of the old the top. The current going to the ones have had them put in, but people lamp energizes the magnet, and the are slow to make radical changes of workman can hang his lamp up anyany sort. Physicians have been about where where he can find a rod, a pipe as ready to avail themselves of the new or a plate of iron to press it against. opportunities as anybody. A great The magnet will hold it there as long

Some manufacturers have begun to electricity in cauterizing and for regular make fancy bulbs for the incandescent electrical treatment. It does away lamp, ornamenting them with pretty with any fussing with batteries, and is patterns by means of the sand blast or always ready. Dentists do the same making the lower part of the bulb way. But when it comes to really white in the same way, thus reduc-domestic uses we have to admit that ing the glare of the light thrown down. electricity has gained ground very, ward. Since the business of repairing burnt out lamps has grown to large Some novelties in electric lighting proportions and the work is done arrangements have recently been intro- cheaply, the investment in fancy bulbs duced into the market. One of these for the household could not be looked keeper might like to have for making manufacturer makes a bulb covering excursions into the cellar, or for rum- of a spiral of glass wire, the purpose of maging in closets or dark attics where which is to reflect and refract the rays any other sort of light would carry of light emitted by the filament within with it a danger of setting fire to the in such a way as to make the whole house. It could be used in safety for bulb appear to glow instead of one's looking for a gas leak under circum- seeing only the brilliant line of the

Written in the splendor of sunlight; after finding the leak. The lamp is a graven in the meliowness of moonlight; little cylindrical affair with an electric emblazoned on the azure sky by the glow light at end and the hattery marvels of heavenly systems, every which supplies the current hidden in star a character, and every constellathe cylinder. A touch of the finger tion a sentence; unfolded on every makes the lamp glow, and it ceases to wave of the unfathomable and ever give light as soon as the finger is re- changeful ocean; inscribed upon every verdant field and golden harvest; Another handy lamp is one for night traced upon every flower and lea use in bedrooms, which is adapted to whispered by every breeze that sways take its current from the ordinary dry the undulating prairie, or makes the batteries that are in common use for mighty forest vocal; emphasized by ringing call bells and such purposes. mountain peak and snow-capped sierra: This can be put up permanently be-thundered by roaring cataract; murmured by babbling brooklet; mirrored in lake and lakelet, is Heaven's warmest, never-ceasing invitation: "O Son of Man, study—all nature, God's own book, is before thee, take up and read; its every lesson will gladden thy heart and strengthen thy soul."

Study is covenant between man and immortality, the bond between the present and the hereafter, the link between time and eternity. It becomes the sceptred king better than jeweled crown, the armored soldier better than gilded panoply.

Hence Shakespeare says:

Alas, how should you govern any kingdom, That know not . . . how to study for the people's welfare.

Bradley, in his story of the Goths, tells us that, "it was the King Theodoric's special study so to apportion the taxes that the burden fell as equally as possible."

It is the statesman's inspiration, the warrior's security, the hope of the toiler, the incentive of the tried and the tempted.

If a man have great talents study will improve them; if he have but moderate abilities, study will make up their deficiency.

The sons of men study makes like unto the up-growing cedars of L-banus, and the daughters thereof like unto the polished corners of the temple It is that God-sent, heaven blessed spirit which, to eager and ambitious youth, conveys the message from above:

Be not content. Contentment means inaction;

The growing soul aches on its upward quest.

Satiety is twin to satisfaction;

All great achievements spring from life's unrest.

Were man contented with his lot forever. He had not sought strange seas with sails unfurled,

And the vast wonder of our shores had never Dawned on the gaze of an admiring world.

Through study, the student recognizes the poverty of ignorance and the wealth of learning. The pursuit of knowledge invites and persuades, nay, with sweet and resistless power, forces him to look upwards, convincing him that, if he look down, his shoulders stoop, that if his thoughts be downwards, his character bends, and that it is only when he holds his head up, his body becomes erect, and only when his thoughts go upwards, his life becomes upright.

The pursuit of knowledge implies that tender, yet firm, discipline which guards our homes and guides our youth, which shows itself not only in words, but in all the circumstances or action. It is like an under agent of Providence, directing us in all the ordinary concerns of life. More shining qualities are there, indeed, than discipline, but none more useful, for it is discipline which imparts value to all the rest, which sets them at work in their proper times and places, and turns them to the advantage of their fortunate possess r. Without it learning is pedantry and wit impertinence; virtue itself appears in the garb of weakness; the best parts qualify a man only to be more sprightly in errors and active in his own undoing.

No, there is no discipline without industry, no industry without study, no success without incessant study. He who, from day to day, recognizes, said an ancient philosopher, what he has not yet, and from mont' to month what he has attained to, may be said to love to learn.

Love of learning is the characteristic of true manhood, and true manhood, whether found in the humble shop of the artisan, in the stately hall of the legislator, or the gilded palace of the monarch, ever enlists respect, for its mouth never cerses to speak of wisdom, and its heart never fails to muse of understanding.

Give us men, cries out the State,

ve us men to guide our families, to The elements so mixed in him, that Nature lead our armies, to inspire our legislatures!

"Out of every youth that cometh; unto me and gathereth wisdom at my feet," quoth the good angel of study, "I make a man," a man in truth, of whom may well and truly be predicated tion meets on the usual days during the immortal lines of the deathless Easter vacation. We should have a bard of Avon:

might stand up And say to all the world, This was a man! Home Study.

The Ontario Educational Associagood meeting.

SCIENCE.

J. B. TURNER, B.A., Editor.

FORM IV. 1898—BIOLOGY.—(FIRST PAPER.)

1. Make enlarged drawings of the parts of the submitted plant, naming the structures of importance and adding any explanations which you con sider necessary.

2. Draw and describe the submitted section. From what organ is it taken? Is it monocotyledonous or dicotyle donous? Give reasons for your answer to these questions.

3. Compare the asexual generations of a fern and an equist tum.

4. What are the typical features of the Gymnosperms? In answering refer to the pine or spruce.

(SECOND PAPER)

1 (a) Make an enlarged drawing of the anterior quarter of the submitted animal (1) from the dorsal, (ii) from the ventral surface.

(b) Open along the median dorsal line and make an enlarged drawing of the anterior quarter of the intestine.

(c) Remove and draw the anterior quarter of the nervous system.

In each case name the important features and make any necessary explanations.

2. Give a general account of the axial endoskeleton in the Vertebrata, describing the elements of which it is composed, the regions into which it is divided, and the functions which it perform: Exclude the skull from your account.

3. Describe the structure of the heart and circulatory apparatus in the Fishes and compare with them the similar organs of the Mammals.

4. Indicate the general features of external structure in the tadpole, and explain what changes it undergoes in

becoming a frog.

5. Describe the external form of the pond-snail, and give an account of its habits with special reference to its mode of respiration, locomotion, feeding and oviposition (egg-laying).

ONTARIO NORMAL COLLEGE.

METHODS IN SCIENCE FOR SPECIALISTS.

1. " The pupil must never seek information by constituting an equation. Observation is the only source of information, and the equation simply expresses the quantitative relations observed. All exercises in writing equations, and rules for constructing them, as if they were mathematical expressions, must be rigidly excluded."

(a) Discuss the soundness of the above statements with reference to (i) Third Form, (ii) Fourth Form classes.

(b) At what stage in the Third Form course would you introduce equations?

(c) Outline a lesson introducing the subject of equations.

(d) How would you deal with a Fourth Form class in which there is a strong tendency to give only equations in written answers to reactions?

2. (a) Give the order in which you

would take up the study of the animal | note-book filled out .to your satisfactypes in zoology. State reasons for your arrangement.

(b) Outline your method of conducting a series of lessons on the grass

hopper.

(c) Conduct a first lesson on any

fish you may select.

- (d) State clearly your ideas with regard to the relative importance to be attached to (1) Dissections, (11) Oral Descriptions, (iii) Written Descrip tions.
- 3. "Many parts of Physics can best be introduced by means of carefully reasoned and fully illustrated experiments by the teacher."
- (a) In general when should the method indicated above be followed, and when should individual experimental work take precedence? Give examples.

(b) Outline your method of intro ducing the subject of Induced Cur

(c) Write a sample-page of a pupil's "alternation of generation"?

tion on the topic in (b).

(d) By what means would you (1) emphasize and fix important laws and facts, (ii) satisfy yourself that the proper observations had been made?

4. " From the educational point of view the important results to be attained from the study of Botany are

(1) the awakening of sympathy with

natural objects,

(ii) the sharpening of the powers of

observation, and

(iii) the strengthening of the faculty of reasoning from the object to laws and principles."

(a) Outline your method of presenting the subject of germination of seeds, having in mind "the important

results to be attained."

(b) What topics would you take up after germination? Give reasons.

(c) Your pupils have studied only the fern among the cyptogams; how would you present the subject of

TRIGONOMETRY, 18c8, FORM IV.

C. P. MUCKLE. B.A., Toronto.

1. Define an angle, a degree, and a radian. From your definition of a radian deduce and explain the formula; angle = $\frac{\text{arc}}{\text{radius}}$

Show that there are nearly 206,265 seconds in a radian.

'(b) I radian =
$$\frac{360^{\circ}}{2\pi} = \frac{180 \times 60 \times 60}{3.14159}$$
" = 206264.5 +".

- z. (a) Give a careful definition of the trigonometrical ratios that will apply to angles of any magnitude; and trace the changes in the values of sin 0 and cos 0, as θ increases from 0 to 2π . Show also that $\sin^2\theta + \cos^2\theta = 1$ is a formula true for all angles.
- 3. If A and B are two angles whose sum is less than 90°, prove that cos (A+ B)=cos A. cos B-sin A. sın B. Write down the corresponding values for sin (A+B), sin(A-B) and cos(A-B).
- 4. From the four formulæ of question 3 deduce for allæ expressing the sum or difference of two sines or two cosines as a product, also formulæ expressing sin A and cosA in terms of cos2 \.
 - . 5. Prove:

(a)
$$2 \operatorname{in} \frac{A}{2} = \pm \sqrt{1 + \sin A} \pm \sqrt{1 - \sin A}$$
.

(b)
$$\tan \frac{1}{2}(\alpha+\beta) - \tan \frac{1}{2}(\alpha-\beta) = \frac{\sin \frac{1}{2}(\alpha+\beta)}{\cos \frac{1}{2}(\alpha+\beta)} - \frac{\sin \frac{1}{2}(\alpha-\beta)}{\cos \frac{1}{2}(\alpha-\beta)}$$

$$= \frac{\sin \frac{1}{2}(\alpha+\beta)\cos \frac{1}{2}(\alpha-\beta) - \cos \frac{1}{2}(\alpha+\beta) \sin \frac{1}{2}(\alpha-\beta)}{\cos \frac{1}{2}(\alpha+\beta)\cos \frac{1}{2}(\alpha-\beta)}$$

$$= \frac{\sin \frac{1}{2}(\alpha+\beta)\cos \frac{1}{2}(\alpha-\beta)}{\left\{\sin \frac{1}{2}(\alpha+\beta) - \frac{1}{2}(\alpha+\beta)\right\}} = \frac{2\sin \beta}{\cos \alpha + \cos \beta}$$
(c) $\sin \frac{\pi}{15} = \sin \frac{14\pi}{15} = 2 \sin \frac{7\pi}{15} \cos \frac{7\pi}{15} = 2 \sin \frac{8\pi}{15} \cos \frac{7\pi}{15}$

$$= 2^{2} \sin \frac{4\pi}{15} \cos \frac{4\pi}{15} \cos \frac{7\pi}{15} \cos \frac{7\pi}{15} \cos \frac{2\pi}{15} \cos \frac{4\pi}{15} \cos \frac{7\pi}{15}$$

$$= 2^{4} \sin \frac{\pi}{15} \cos \frac{\pi}{15} \cos \frac{2\pi}{15} \cos \frac{4\pi}{15} \cos \frac{7\pi}{15}$$

$$\therefore \frac{1}{2^{4}} = \cos \frac{\pi}{15} \cos \frac{2\pi}{15} \cos \frac{4\pi}{15} \cos \frac{7\pi}{15} (1)$$

Again

$$\sin \frac{3\pi}{15} = \sin \frac{12\pi}{15} = 2 \sin \frac{6\pi}{15} \cos \frac{6\pi}{15} = 2^2 \sin \frac{3\pi}{15} \cos \frac{6\pi}{15} \cos \frac{3\pi}{15}.$$

$$\therefore \frac{1}{2^2} = \cos \frac{3\pi}{15} \cos \frac{6\pi}{15} (2)$$
and $\frac{1}{2} = \cos \frac{5\pi}{15}$ or $\cos 60 \sqrt[3]{3}$

.. multiplying (1), (2) and (3)

$$\frac{1}{2^7} = \cos \frac{\pi}{15} \cos \frac{2\pi}{15} \cos \frac{3\pi}{15} \cos \frac{4\pi}{15} \cos \frac{5\pi}{15} \cos \frac{6\pi}{15} \cos \frac{7\pi}{15}$$

6. Show that the following relations hold good for every triangle:

(a) c=a cosB+b cosA. (b) $c^2=a^2+b^2-2ibcosC$.

(c)
$$\tan \frac{B-C}{c} = \frac{b-c}{b-c} \cot \frac{A}{c}$$

7. In a triangle $\tan \frac{A}{2} = \frac{5}{6}$ and $\tan \frac{B}{2} = \frac{20}{37}$. Find $\tan \frac{C}{2}$ and prove that a+c=2b.

(a)
$$\cot \frac{C}{2} = \tan \frac{A+B}{2} = \frac{\tan \frac{A}{2} + \tan \frac{B}{2}}{1 - \tan \frac{A}{2} \tan \frac{B}{2}} = \frac{\frac{5}{6} + \frac{20}{37}}{1 - \frac{5}{6}, \frac{20}{37}} = \frac{5}{2}$$

$$\therefore \tan \frac{C}{2} = \frac{2}{5}$$
(b) $\tan \frac{A}{2} \tan \frac{C}{2} = \frac{5}{6} \times \frac{2}{5} = \frac{1}{3}$

$$\therefore \sqrt{\frac{(s-b)(s-c)}{s(s-a)}} \sqrt{\frac{(s-a)(s-b)}{2(s-c)}} = \frac{1}{3}$$

or $\frac{s-b}{s} = \frac{1}{3}$ 2,=3b a+b+c=3b : a+c=2b

8. Define a logarithm and prove :

(a) $\log_a mn = \log_a m + \log_a n$.

(b) $\log_2 m^n = n\log_4 m$.

(c) $\log_a m = \log^a b \times \log_b m$.

9. A man on a horizontal plane observes that the angle of elevation of the top of a tower, 800 yards away, is 15°. How much nearer must he ome to the tower in order to make this angle just 30°?

Let A be top of the tower, C the base D the first position, C the second posi-

tion, DC = 800 yds.

Then the angle ADB angle BAD each being 15° . AB = DB = X, say CB = 800 - x

Then
$$\frac{800-x}{x} = \cos 30 - \frac{\sqrt{3}}{2}$$
 . $1600 = x(\sqrt{3}+2)$

$$x = \frac{1600}{2 + \sqrt{3}} = 1600(2 - \sqrt{3}) = 428 72 \text{ yds.}$$
12 In a triangle having a = 0, b = 12. A

10 In a triangle having a=9, b=12, $A=30^{\circ}$ find c. Given $\log 2 = 30103$ $\log 171 = 2.23301$ $\log 368 = 256635$

log 3=: 47712 L $\sin 11\%.48'.39'' = 931108$ L $\sin 41\%.48'.39'' = 982371$

L. sin 108°.11'.21"=9 97774

Since a is less than b, but >b sinA, and A an acute angle we have two triangles

$$\sin B = \frac{b}{a} \sin A = \frac{12}{9}, \quad \frac{1}{2} = \frac{2}{3}$$
L sin B = 10 + log 2 - log 3 = 9 82391
$$\therefore \begin{cases} B = 41^{\circ}.48^{\circ}.39^{\circ} \text{ or } 148^{\circ}.11^{\prime}.21^{\prime\prime}. \\ A = 30^{\circ}. \end{cases}$$

$$\therefore \begin{cases} C = 108^{\circ}.11^{\prime}.21^{\prime\prime} \text{ or } 11^{\circ}.48^{\circ}.39^{\prime\prime}. \\ \sin A = \sin C \times -\frac{9}{\frac{1}{2}}. \end{cases}$$

 $\log c = 4 \sin C - 10 + 2 \log 3 + \log 2 = 1 23301$. $\therefore \int C = 17.1$ if we take the first value of C

C = 3.68 if we take the second value of C.

MAGAZINE AND BOOK REVIEWS.

Credit should have been given to familiar, again appears and conducts Education for the article "Some another expedition through the coun-Thoughts on English in Secondary try of the Pointed Firs. Charles G D Schools," by Miss Ida M. Street, which Roberts contributes a story of his Aca appeared in the January number, 1899. I dian country, "Gaspar of the Black

Among the great American magazines none has devoted so much atten-

Le Marchands."

The opening article in the February tion to education as the Atlantic. In Appleton's Popular Science Monthly is the February number is begun a series devoted to vegetation, "A Remedy for of papers entitled "Talks to Teachers the Summer Heat of Cities." It is on Psychology," by William James, prepared especially for the conditions which cannot fail to engage the atten- existing in New York, but it urges upon tion of those for whom it is written, all cities "the cultivation of trees, In the same number is a charming shrubs, plants, vines, and grasses. short story, "The Queen's Twin," by There is also an account of a curious Sarah Orne Jewett. Mrs. Todd, with death trap in Yellowstone Nationa whom the author's readers are already | Park, where carbonic acid gas is forme

view of life rather sadly in most Frank, one must have been a small cases.

General Shafter's story of the war appears in the February Century. is quite i. possible for any one who is not an American to arrive at a judicious conclusion about the conduct of the late war. If they were all good and wise commanders, why are they now so incompatible with each other? But General Shafter cer ainly tells his story well, He speaks about Mr. Davis, although he does not name him. hat Charles Dickens did for Childhood, his Work in Education," is an interesting article by Inspector James L. Hughes, of Toronto. "In the Topics of the Time" will be found an editorial comment on Mr. Hughes' paper. "The Curing of Kate Negley," by Lucy S. Furman, is an amusing short story on faith cure, a subject, however, which has its bitter side.

Littell's Living Age is at present reproducing 'The Etchingham Letters" from the Cornhill Magazine. It would be hard to praise these letters too highly. Culture is an abused word, but no other can be applied with as great appropriateness. "A Roval Romance," by James Mowbray, is an account of the early love of George the l'hird.

In the February Book Buyer is given an interesting picture of Ernest Seton Thompson, and, further on in the magazine, a short sketch of his career, rather a condensed account - "born in England in the early sixties and in 1882 went to the plains of the Assina-Possibly Mr. Thompson's commentator did of know anything more about him between these dates. but to know Silverspot and Castle wild animals. The Fubular Science Monthly has been credited by a contem porary lately with influencing such new fiction as Miss Robin's " An Open

in sufficient quantities to overcome the that science is affecting the modern Toronto boy. "The Young Author and the Old Author" is an amusing attempt at instructing the vast number of people who know little about writing and yet will write, often, to do the world justice, without the slightest encouragement.

> The Table Talk has now introduced a young soldier to its cover dinne. party, which is a sign of the times. But inside the covers there are still a great many good things, practical, theoretical, and otherwise. "In Bermuda with Theodora" is an amusing travel sketch.

A Critical Study of In Memorian, by the Rev. John M. King, D.D. Geo. N. Morang, Toronto. This volume consists of a series of lectures or chapters originally prepared by the Principal of Manitoba College, to be delivered to an audience interested in literature, and the character of the book has been largely determined by this circumstance. The exposition of the poet's meaning is followed through each idividual poem, and the criticism itself is often varbal. This makes Dr. King's study specially suited to the class-room, and, indeed, it can hardly be enjoyed without the constant employment of the text of the Loem. Any teacher or lecturer engaged in the elucidation of In Memoriam will find the book a great assistance in his work. While the author naturally is attracted by and dwells on the more purely theological side of the poem, ne brings to its comprehension a keen and critical understanding and a warm and human sentiment. more than common success of Dr. King's book has been well deserved.

Alywin, by Theodore Watts Dunton. George N. Morang, Toronto. story Alywin is well worth reading on its own account. From the point Question." There can be no doubt of view of its literary style the pleasure

connected with a perusal is constant, faction of a long novel of the same and unflagging. whom the nineteenth century in Eng. and has found its highest art of such men as Possetti, Swinburne and Morris. Their feelings, habits and conversations are woven into the life of the book. It is what they saw in Wa and in the Romany chis and chals that one may find in Alywin. The whole book is devoted to heauty in language, landscape, character and person.

Windyhaugh, by Graham Travers. The Copp, Clark Company. A great many years ago, as modern fiction is counted, Dr. Todd's first novel, Mona Maclean, was published, and very of Cicero, edited by J. C. Kirtland heartily liked. Since then one might, find in Blackwood's an occasional W. Harper and F. A. Gallup. paper, or short story, plainly from the same hand, but now comes the satis, by H. A. Guerber.

But perhaps the type, healthy, sane and interesting, fulkeenest and most unusual charm of of perplexing problems, but not less the book is due to the fact that Mr. full of hope and temperateness, since Watts Dunton has been the familiar one can't say temperance for fear of companion for many years of men in being misunderstood. The only fault to be found, so far as the story goes, is in its medical side, which might be Alywin is singularly informed with abated, we think, with advantage. But the moods, sentiments and characters let there be no mistake, there is nothing impure or even disagreeable in Windyhaugh. It is a book worth waiting for, a good novel that will outweigh ten of the ordinary manufacture.

Ginn & Co., Boston:

Piccolia, by J. H. Boniface, edited by Abbey L. Alger.

Physical Geography, by W. M. Davis and W. H. Snyder.

The American Book Company, New York:

Selections from the Correspondence

Ten Orations of Cicero, edited by

The Story of the Thirteen Colonies,

Out of 566 recorded freshmen at and Roman Oxford this term, 250, or a little less Stonyhurst alone sends nine, and sevthan half, come from the great Engli h eral others help to swell the total. house with raneteen, Warchester with and Australia. The list includes one nineteen, and Marlborough and Har viscount, four honourables, one lord, row with sixteen apie e. A urious and one Belgian count. It should be reature of the lists this year is the noted that there are several omissions iarge number coming from

Catholic colleges. public schools. Of these Eton cor. Miscellaneous freshmen come from all tributes far more than any other school, parts of the world, a great number with forty six freshmen. After this from American universities, one from come St. Paul's with twenty, Charier New Zealand, and several from India of undergraduates from this list, as several colleges have Scotch universities not yet printed their returns.