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THE CANADA

EDUCATIONAL MONTHLY

NOVEMBER, 1898.

SUPERINTENDENT GREENWOOD'S ANNUAL ADDRESS.

HE education provided for the child by the state is limited to months, days, and hours, and these again by so many hours a day and so many days of the week for each year. The maximum number of weeks not to exceed forty, the hours of the day not to exceed seven-so that, out of the one hundred and sixty-eight hours a week, the child does not come directly under the teacher's control more than thirty-five hours, and possibly as few as twenty hours. Again, between the spring and fall session there is always an interval of from twelve to sixteen weeks when the child does not attend school, but is supposed to be resting and building up his bodily strength for the next school year. This condition faces one of the unsolved problemswhat to do with the city and town children during vacation? Shall their vacation games and amusements be supervised, or partly supervised, or shall they be turne' loose to enjoy themselves as best they may—on the streets, in the alleys, and on vacant To put this question in another way, has the public a duty to perform for the children when they are not in school? Would it be a violation of the home relations between parent and child, if the state should exercise a healthful supervision a part of the time over its children during the long heated term? There are children, it must be admitted, who have to work during the proper time.

the summer months, but from a sanitary standpoint they, too, need attention and the state now regulates the hours as well as inspects the conditions under which child labor is employed.

The schools can do only a part of the work towards educating the child, and that a minor part under the most favorable conditions. The faculty to play is instinctive among children, as it also is among the young of the inferior animals, and play is the spontaneous way that the child has to express himself most naturally. observe this tendency among children in a thousand forms in their games and antics. If they are pent up in a small space or room, they tease and orment one another, and appeals are continually made to have a supervisor interfere to make some one behave. In such a situation the vicious and selfish propensities are most fully and freely developed, and the seeds of envy, jealousy and malignity sink their roots down deep into the child's To tell children to sit still nature. and be good, and to enforce the command, is often worse than some of the deadening processes occasionally practised in a few well-ordered schools. To repress childhood is not to understand the nature of children; and, in making this statement, it is not to be inferred that the child is not to learn the lessons of obedience, silence and industry at about the worst possible school of into a child's growth, health, happiness, struction the child can enter. Curi-culture and general intelligence as any osity is a predominant trait of child other necessary condition of its existhood, and only let a policeman's whistle ence. By furnishing such conditions blow, or a drunken man pass along the the child is given an opportunity to street, and the children come trooping strengthen his character in every directo the scene in swarms. As soon as tion by giving him cheerfulness, freethe child is large enough to open the dom, and contentment, repressing the gate and rush into the street, he enters evil tendencies, choking them out, as into a school in which all the vicious it were, and giving the better side of traits of a depraved characte, are fos- his nature a chance to expand and tered. A species of demoralization grow into that firmness of habit known and terror is practised by larger boys as good character. That such playon the smaller that can find its count- grounds are needed in almost every erpart only in the misrule which the city, no one will have the hardinood to dominant class in some nations prac-deny. There should not be little spots tise, as extortion on the dependent of ground here and there where the and helpless class whom they govern, children must be good and quiet and Street gangs are formed—veritable not make a noise. They ought to be Ishmaelites—whose hands are against large enough for the children to play everyone and everyone's hands against on, a hundred or a thousand at once. them. They tease, torment and annoy They should not be baseball grounds the citizens; they steal from other and nothing more, but real playgrounds children, snatch fruit and vegetables on which the games are regulated to from the grocery stores, defy the police suit the time of the year and the hours and insult girls—doing many of these of the day. things because they think it is funny. For several years the feeling has Under such tuition they develop a low, spread among a large class of the peoquick species of cunning, but it is ple of this country that the schools acquired at the expense of arrested de-should give much more attention to velopment along higher and better what are called "common things," and lines of growth. It is only a step from it is well known that the expression the street and alley associations to "common things" may be made to crime and wretchedness in their more do drudgery for all conceivable occupronounced forms. Out of this class pations in which persons are engaged. is recruited that element which stands. It is evidently true, too, that what may as a constant menace to good citizen- be regarded as very common things in ship in the city. I believe that the one line of work may be entirely unchief cause—if not the very root of this known in other fields of activity. But demoralization—is traceable to inade-the restrictive use in which "common quate playing facilities for the children. things " is employed in an educational It is owing to misdirected energy, and sense, limits the meaning to within this brings along in its train a long list a narrow compass—embracing some of evils which dwarf and blight the knowledge of natural objects of an orchild's moral, physical and spiritual ganic and inorganic nature; but more growth, unless such a one as Oliver particularly of plants, animals, soils, Twist be found now and then, able to the atmosphere and its conditions—in withstand all adverse conditions of short, nature studies. environment and rise triumphant over all.

The street influence, unbridled, is: A good playground is as necessary

Each trade brings one into relationship with certain conditions which

must be mastered and understood to excite no great interest among children laid off into flower beds. signs with as much facility and accur country schoolhouses there should be acy as he interprets her passing two or three acres of land for experithing new or unusual attracts his at-flowers, and ornamental shade trees. tention he inquires of those older than. This is not an impracticable scheme, learned much of the strength of com- schoolhouse. bination, or of how business is conducted, and in this respect he is far is in the surroundings and the opportunities, and not in natural aptitude. A little levelling up would help both, able products of a country. another.

To induct the city children into some extent. No doubt the chief im- nature study on a small scale would petus given to this kind of work, in not be a great task, and yet it would addition to regular book learning, was afford genuine pleasure as well as owing to imported knowledge carried valuable information. It may be done by certain teachers into school fresh in the following manner in many from the farm, the workshop, the desk, schools. Let there be set aside a plot and the laboratory. Among country of ground at the schoolhouse upon children many things that they know which vegetables, cereals, etc., are and are familiar with need not be displanted. Let the boys and girls, who cussed in the country schools—but are interested in these things, prepare with city and town children this the ground, procure the seed, and do knowledge is a novel and an important the planting and the cultivating, to see acquisition from the fact that it is not the plant start from the seed and pro-Planting, growing, cultiva- duce its kind. All the children then tion, harvest, and gathering in the would become familiar with growing crops—these are everyday affairs, and crops. A part of this plot should be in the country; so the return of the piece of ground could thus be cultimigratory birds, the fishes in the vated at each school wherever pracstreams, and the appearance of insect ticable, the city and town children life, and all the manifestations of would become tolerably well acquainted growth, maturity, and decay observed with agricultural and horticultural inin the changing scenes of rural life, are dustry on a small scale. The ideal matters of common occurrence. Be school, I should say in passing, with sides this, the country child becomes, its walks, flower beds, shade trees, and in one sense, "weather wise." The little patches of grains and grasses, very nature of the occupation in which and properly equipped inside as well his parents are engaged causes him to as outside, is what the teachers of this become a close observer of atmospheric state should strive for. And, to go a conditions, and he learns to read these step further in this direction, at the thoughts from his mother's face. He mental purposes—on which the teacher absorbs the workings of nature with and the pupils could experiment with hardly an effort, and whenever some all kinds of fruits, grains, vegetables, himself for the reason. Of city or but one which lies clearly within the town life he knows little. He has not reach of every neighborhood having a

Another phase of nature study which may be taught incidentally is that of behind his city cousin. The difference the weather; and this is a subject that is very closely allied with the study of geography, and the animal and vegetno doubt, and this is the opportunity perature, the moisture or the dryness for the progressive teacher to import of the atmosphere, the direction of the the child from one phase of life to wind and its velocity, the amount of rainfall or of snowfall, the cloudiness

and the kinds of movements of the clouds-these and many other daily phenomena are of such a nature as to attract and interest the attention of children, whether they reside in city or country. In addition to the small thermometers now supplied in each schoolroom, there should be a barometer at each building, and the pupils should be taught how to read it and to make records of the weather daily. There is no reason why the children should not become entirely familiar with these common objects of nature, and learn how to interpret them as they do other daily phenomena. would furnish a basis for more extended observations, and would be carried forward as a means of establishing a rational and systematic method of arranging and classifying many of the leading facts concerning the atmosphere, the weather, changes, and some of the laws underlying the subject of meteorology and its influence on men and crops generallv.

This knowledge may furnish the explanation of what is known as "noisy

and restless days in school."

Some things are accomplished by accident, but the habit of easy, rapid and accurate writing or speaking the English language is not one of them. It is a self-evident fact that wide differences exist among individuals as to the natural ability to acquire and to use the art of written or vocal expression, just as there are variations in the power to acquire other kinds knowledge.

So far as instruction in this department of education is concerned, perhaps the unsatisfactory results may be ascribed, in a large measure, to the indefinite aims that the majority of teachers have in mind, or rather not in mind, in conducting pupils forward in this line of work. The usual method of procedure has been that of absorp-

sentences. That is to say, certain authors are read, analyzed, and reduced to the saturation point, so that unconsciously the learner is filled with their effluvia, and he lives and breathes literary atmosphere till it literally fills his word, sentence, and paragraph-brain-cells, and all that he has to do when he needs to use this pent-up energy is to turn the composition tap. and let it flow out through cold ink on white paper, or to toss it out into the air to vibrate as a shiver around the world. Close reflection will convince anyone that this theory of making a style is largely imitative, and the effort of a writer trained under such a system of tuition will be put forth to counterfeit his style so as to avoid detection. I would not be understood as condemning the advantages that come to one from studying the classic authors of ancient and modern times, or of preferring some authors to others, because such studies are invaluable as revealing the structure and logical development of the human mind when working ander the highest degree of intellectual inspiration; but what I do contend for is that the imitative standard is not the highest, nor, indeed, is it the best. for the learner. The style of each one is his own, and it should be as far removed from the imitative one as possible, and the sooner this fact is recognized and acted upon the better will teaching in English become.

A second element of weakness, as I conceive it to be, is in the vagueness of the objects aimed at. If I can succeed in making my meaning clear on this point, one great step will have been taken.

First, there are certain mechanical conditions that have to be complied with, such as the ability to write a clear, legible hand; to know how to spell correctly all the words used: to use capital letters properly, and to punctuate correctly, and to know when tion or contamination by words and a sentence ends, and where a para-

graph begins and closes. The learner the analytical faculty has done its cannot acquire and retain this knowledge without becoming familiar with grammatical forms, and some standards of accuracy and clearness in the use of his mother tongue. habits of thought will give him the idea of clearness in the orderly arrangement of his sentences in paragraphs, and why one order in sentences arrangement is preferable to another. The arrangement of words in sentence will reveal to him the necessity for an extensive and varied vocabulary. of this presupposes some reading in order to fix the points in didactic instruction.

The point that I insist upon is this that the teacher of English who has a cut-and-dried scheme, whatever grade the pupils may be, can never reach the best results. There should be no prescribed form except in the mechanical requirements mentioned. To follow models is to violate every instinct in nature by an attempt to level what no process, however great the pressure, can ever accomplish. The aim should be to get each pupil to express himself in his own way in the very choicest language possible. This should be the spirit and aim of all successful There must be instilled into the learner's mind the ambition to express himself well and in his own way, but his way should be such a one as embodies correctnsss, neatness, clearness and elegance. For the cultivation of exact expression, I know of no other species of composition equal to the written solution of a problem in arithmetic or algebra, ready to put This develops logical into print. consecutiveness,—each step in its proper place. The same exactness of arrangement in the treatment of other in the subject matter and what factors simple subjects will give the pupil a are of the most importance to man with good idea of what is meant by logical his fellow-man as exchangers of produnity in the unfolding of a subject, ucts — whether of the raw material or This appeals at once to the analytical of manufactured articles. Under the faculty, and then it gives scope after old definition, geography was literally

work for the imagination to embellish and adorn the facts in accordance with the canons of taste. that interest are generally the best to be assigned for composition, and it may be better not to give the same subject to all the members of the class. All slovenly, hasty writing in ward schools or high schools, just to answer questions or to take notes, can not be too strongly censured.

The idea that English is not to be taught except by those who are assigned to teach it, is one of those strange species of mental hallucinations that has its explanation in a clear misconception of the use and nature of our language. All instructions in our schools should tend in the same direction, and should not be running in cross currents.

No effort should be made to encourage learned writing in either ward or high school. The spontaneous effort - outburst of each one's individuality—is what should be aimed at. In due time the fine writing will take care of itself. Let the pupil be impressed with this solemn fact that if his writing gets into print, and it is not able to stand the tests of scholarship, it reacts upon him. Then he will most likely work to produce such writing as will reflect credit upon him-The final rule upon which stress should be placed is that each one does his best every time he writes.

There is more unrest manifested in the present methods of teaching geography than in any other subject included in the common school cur-This change has been riculum. produced chiefly by a different conception as to the real issues involved

this definition is entirely too small for even a workable hypothesia at the present advanced stage of national intercourse. Even supplementing the definition by "what grows on its surface," it is still too narrow.

I' stead of attacking the subject from the descriptive side and the mathematical side, and working out the political, it should commence with what the child can see, in his own immediate vicinity, of soil, hills, valley, plains, etc., and such plants as are produced in the garden, orchard, farm, or such articles as are manufactured in his own community, and such other raw or manufactured products as are brought within the range of his observation. Just enough of the physical and mathematical phrases of geography should be at first introduced as will familiarize the learner with the technical terms of the science. here intended is designed to open up, in the very earliest stage of the learner's progress, what may be gained from a knowledge of all those articles of household consumption found in our grocery and dry goods stores, and how they are brought from one place to another. The time has come when the great cities of the world are the real geographical centers, and they afford the basis for an intelligent investigation of the subject.

The sooner the conception spreads among our teachers that we are interested most in what a people produce and what they have to exchange with other people, and how trade is carried on between them and our merchants, the more nearly we approach this subject in an intelligent and instructive manner. Pertinent questions will be — what do they produce in that country, and how much of their trade do we need and how much do we get?

a description of the earth's surface, but questions apply to foreign commerce. but they can be used with as much precision for domestic commerce. From those rudimentary beginnings, following the channels of commerce, the pupil is led out into all parts of the habitable globe. Wherever our ships and railroads go, he goes and can see reasons therefor. He learns. furthermore, how to study the manners, the customs, the political institutions, and the various occupations in which the most of the people are engaged. Rivers, mountains, lakes, bays, straits, channels, sounds, and harbors are only serviceable to man in proportion as they can be used by him or as they influence climate, health, and trade; otherwise, they cut no figure in the affairs of the world. is all well enough to talk about the undeveloped wealth of a country, but that amounts to little unless there are people who are bringing these treasures to man's use. Man, then, is the real factor involved, and not man as an isolated being—a Robinson Crusoe -but the trafficking, intelligent being is he who brings distant markets close enough together to exchange products.

So pressing has this kind of knowledge become that among the most advanced nations of Europe they have been forced to found and endow special schools for the purpose of furthering trade with distant countries. Such a movement should be inaugurated without delay in this country. The necessity is pressing now since we have opened a new chapter in the world's history, and will be henceforth one of the final arbiters in the progress of civilization. The battle of the nations is for the trade of the world. Experience has shown that trade is governed largely by well-established laws, and that these laws and principles can be applied with a tolerable Then, what do we produce that they degree of certainty to any set of inwant? Do we trade with them direct dustrial conditions. To use an illusor through another nation? These tration that is familiar to all of you,

the wholesale firms in Kansas City mous power of teacher and class is focsend out their travelling men to solicit alized on simple points, and illumined trade over a wide extent of territory, and mastered in detail. Should they not do so, other centres tory, and get the trade. It pays to wretchedness exist among some classes send men into cities and towns who of the community, and over against know what the local merchants want these are to be set their opposites, infor their customers. Now, upon a telligence, good character, sobriety, much larger scale, is, practically, what culture, refinement, and comfort. The the Germans, the French, the Hol-contrast is sharp and strong. landers, and the English are doing, or former constitute social dynamite, and are getting ready to do, with all the the latter lead to obedience of law and more distant commercial peoples of good citizenship. The main object is the world.

a modern language-learning people. It is a necessity if we wish to command a large part of the trade of the world among people who do not speak our language.

What I have so hastily sketched on this subject is an indication of what must be brought into our courses of instruction, leaving the further extension of the work to boards of traile and commercial clubs in the business centres of the United States.

A WORD TO THE TEACHERS.

The greatest danger the teacher has to guard against is the misdirection of energy on the part of the pupils. is now stated on good authority that sixty-four persons are engaged in making a single pair of shoes, and, if one should drop out, the shoes remain unfinished, so far has the sub-division of labor been, carried. In teaching, we reverse this by having one teacher watch over the most complicated relations requiring the very clearest perceptions of the rights, duties, and necessities of a house full of children. in which a delicate conscience and a keen sense of justice are called into exercise every hour of the day. Nowhere else is the power of organized effort more fully displayed, and is made to serve a better purpose, the enor- a multitude of counsel.

A rapid survey convinces the true would come in and occupy the terri-teacher that ignorance, vice, and to teach the children how to live and The Americans must become now how to get the most permanent happiness out of life. How to use life and how to enjoy all its beneficent privileges is the main work of the school. The uplift should always over-balance the down pull.

A courageous teacher is needed to take hold and discipline and instruct children, if the instruction is to last through all time. To be opened-eyed, open-eared, and tireless, are qualities accompanying the real teaching spirit. It is marked by the courage of convictions. It signifies that the teacher is brave enough to be understood and misrepresented—ridiculed, abused, but can afford to wait for time to vindicate both work and motives. All this demands intelligence, will-power or determination, executive ability carry forward in the best way the work. that should be done.

Let it be summed up in the very briefest compass—by saying it demands what is reasonable and necessary.

Preparation in advance is always half the battle, and this brings us back to a safe principle in school management-that is-no school is well managed unless all the work is well plan-Some plans are not worth anyned. Teachers, submit your plans thing. to your principal. There is safety in As teachers

we see clearly that the children's physi- | fall out. Those that do so should ask cal, moral and intellectual well-being for a discharge. are entrusted to us part of the time. This trust we cannot evade if we acter the life and the working and the would, and we should not if we could. Their relations and ours are bound up in one bundle. Education becomes a hated the school he attended when a progressive movement, and no live child, because it had no life in it.—

A school is measured by the charobedient spirit that fill it with energy and enthusiasm. Professor Tyndall teacher can afford to break ranks and School and Home Education.

A PLEA FOR THE BETTER TEACHING OF MANNERS.

By FLORENCE BELL.

great deal of time is spent in these important. There is plenty of excelin weighing the comparative merits of gressing every from that

days in discussing what is the best lent grounding in elementary manners equipment for success in life, and to be had in the nursery and the those of us who have the heavy respon-school-room. The extraordinary fersibility of deciding important issues for tility of invention with which a child another generation pass anxious hours will find ever fresh ways of transhuman ordinance. such and such branches of learning as is kept in check and corrected by those preparation for such and such careers. about him, who are constantly saying: But we contrive to omit completely "Don't do this," "Don't do that," deliberately formulated until, insensibly guided by this handscheme of instruction the thing that rail of prohibitive maxim, the child probably matters most—namely, the learns in a rough-and-ready way to manner, as well as the manners, in hear himself more or less well at this conjunction with which that excel-stage of his passage through the world. lent equipment is going to be used. Unfortunately, however, the more through which it is going to be inter- grown-up faults of manner do not genpreted, and on which will almost cer- erally show themselves until the oftainly depend its ultimate success, fender has passed the age when they However well stored your mind may might, without loss to his dignity, fitly be, however valuable the intellectual have been corrected. it is easy to wares you may have to offer, it is ob- tell a boy of twelve not to annoy other vious that, if when calling your fellow people by drumming with his feet on man's attention to them you give him the floor during dinner; but it is more a slap in the face at the same time, difficult to tell him when he is twenty you will probably not succeed in en-inot to make himself offensive by laylisting his kindly interest in your fur- ing down the law. That difficulty of ther achievements. And yet we all admonition increases as years go on, know human beings of good parts and and it may safely be asserted that the of sterling worth who contrive by some fault of manner which is not cured at unfortunate peculiarity of manner to twenty-five will still be there at seventygive us a moral slap in the face every five. And, alas! in half a century time we meet them, simply because there is time to offend a great many they did not receive any systematic people. Surely it would be quite posteaching of advanced manners at a sible to obviate this danger by timely time of life when such teaching is most and systematic instruction. We take

a great deal of trouble to impress on a have been well disposed. young child certain quite arbitrary rules of demeanor, which are so constantly reiterated and ...sisted upon that he gradually takes them as a matter of course, and ovevs them automatically for the rest of his life, until it would be utterly impossible for him, arrived at manhood, so to fly in the face of his early training as to tie his table napkin round his neck at a dinner-party, to put his knife into his mouth, or to attack his gravy with a spoon. Why should it not be possible to have a course of second-grade instruction in demeanor, so to speak. which should in its turn be as thoroughly taught as the primary one, as insensibly assimilated and automati cally obeyed? But it does not seem to occur to most people that this is necessary. Our usual plan, or rather want of plan, is to furnish the young with some stray, haphazard generalities. and then consider that we have done There are few things more enough. dangerous than the half-truths-necessarily and obv-ously half-untruths as well-which we thrust into the gaps of our code of conduct in a makeshift fashion, to the exclusion of more complete ordinances. Without a misgiving we proceed to tell young people that "manners maketh man," or "Good manners proceed from a good heart," and then expect that they themselves should fill in the details for their own daily guidance. We might as well tell them the formula of the law of gravitation, and then expect 'hem never to tumble down.

And so we let them learn by experience—surely the most tedious and painful form of acquiring knowledge at their own expense and that of We let them fell into one others. pitfall after another, and scramble out as best they may, scratching themselves and others in the process, and perhaps making enemies of dozens of their fellow-creatures who would otherwise this thing, that matters so very much,

We allow them to try by practical experiment whether it is by being pompous, offhand or patronizing that you can make yourself the most disagreeable, and how long other people will enjoy talking to you if you are looking the while. with ill-concealed mattention, over their shoulder. And yet these are things which it is important to know. these are things which should be deliberately taught, and not left to chance.

It is a platitude to say that, as regards the average mass of human beings, the question of failure or success in life is almost entirely determined by their personality. I am not speaking of those whose transcendent gifts of any kind must inevitably lift them conspicuously above their fellows, even when accompanied by the drag of an unfortunate manner; but of the average mortal, sufficiently well equipped to carry him through successfully, provided that all the other conditions be favorable, and that he be not handered by quite unnecessary stumbling-blocks that a little trouble and forethought might have removed from his path. An ingenuous investigator put forth, I am told, some time since a circular inquiring into the causes of failure, a copy of which was sent round to all the people who might be supposed to have good reason to know the answer. History does not say what were their feelings on receiving it. But, however plausibly they may have managed to explain why they had not succeeded in doing all they had desired to do, we may surmise that they did not, in nine cases out of ten, put their finger on the real cause—namely, that of having been afflicted with an unlucky manner, or unlucky manners, which had stood persistently in their way. They had taken, no doubt, a very great deal of trouble to learn many things that they thought would be useful to them, but

they had left out altogether. Manners may do the best in her power for he tory or the classics, the examination big ones. But it would not be so at all. read of life is made smooth in that branch, as well as the others, has difficult; that the traveller is helped Of course we all agree that big things cepted corriculum. During the long divided aright. Give a thing a small and frequent conversations on educa-name and hang it, in fact; and it is tion with which mothers are wont to obvious that it is, unfortunately, the another in society—these conversa mand our respect by the sincerity and tions occasionally take the form of an diligence of their work and aims who alternative and competitive recital of are apt to put aside the deliberate the achievements of each mother's off- study of the minor graces of life as spring-you will hardly ever hear of being the things of the least impormanner or manners being taken into tance. account in making educational arrangements for Sybil or Dorothy. On earnest, the high-minded, the elect the contrary, you will probably dis-thinkers and doers of the world, their cover that such branches of learning energies concentrated on loftier aims, as they are pursuing are being ac-should so often, practically, if not exquired under conditions in which man-splicitly, contemn the "undue" imporners will probably be entirely over-tance—the very word begs the question abroad, living in a family whose abso- servances, on the ground that time and lute respectability has been carefully energies are thus diverted from the inquired into, but where it is not larger issues. I would diffidently likely that there will be much observation, or much criticism, therefore, of servances are incompatible with lofty the hundred little departures from aims and earnest thought. grace of bearing into which young peo contrary, I will venture to assert that ple are apt to slide. Sybil, who has a not only are they con patible with stronger mind, is learning the classics them, but that every form of good and at a high school, under the care of a earnest endeavor will be incalculably tracher who, excellent though her cer-furthered by attention being paid to tificates of knowledge may be, has ab- certain details of manner which some solutely no time to turn her own atten-people consider tion or that of her pupils to minutiæ others call them essential. of demeanor. But, if we were even to case, as in others, the looker on may hint this in veiled terms to a mother see most of the game; and the idler who is anxiously planning how she standing by may perhaps realize more

may not "pay"—to use that ugly ex- daughter, she would probably contemn pression—in an examination, perhaps, us for attaching importance to the But, once that, by dint of studying his-small things of life rather than to the has been passed and the career entered. There is no reason why the earnest upon, a previous study of manner and study of music or the classics should manners will be found to pay very not be compatible with daily and well indeed. It may mean that the hourly training in manners as well, if stead of rough; easy instead of been considered in selecting a teacher. along it by the encouragement of others, should come before small. Where we instead of being hindered by their dis- are at variance is in deciding which Such a study, however, but are the big and which are the small; rarely finds its place as part of an ac- and in my opinion they are not always beguile the time when they meet one people who are most entitled to com-

> It is a matter of regret that the Dorothy is learning music -given to what they call trifling obtrifling,

workers, whose minds are full of of essential excellencies. mirable virtues that underlie it.

philanthropist. fortune than I, whose horizon she may tor, his kindly interest that we should in our intercourse with taught as the first rule, if it had oca fellow-creature be biased by super-curred to any one that it was neces-

clearly than the active and strenuous ficial deficiencies, and thus lose sight wider aspirations, how greatly their foolish, most of us; that fact we must possibilities of usefulness may be accept, however much we should like minimized, how much the influence of to think otherwise; and if we honestly their goodness may be weakened, by search our experience and our membeing presented to the world under a ories, we shall realize how much we crude and unattractive aspect. It is are liable to be influenced by things quite a mistake to think that goodness which appear insignificant, we shall unadorned adorns the most. It should recall how slight an incident has somehave as many adornments as possible, times produced an unfavorable imin order that the outward graces may pression that is never wholly erased. correspond to the inward, in order that I remember an instance of this which the impulse of those brought face to struck me very vividly. A septuagenface with it may not be one of involun- arian of dignity and position, Sir X. tary recoil, first from the unattractive Y., happened to meet at a public manner, and then, perhaps uncongathering Mr. Z., another magnate of sciously to themselves, from the adhis own standing, full of years and of worth. Mr. Z. was anxious to enlist I go, for instance, to visit a noted Sir X.Y.'s interest in a certain scheme, I am not there on and to obtain his co-operation and pebusiness, so to speak, and she is not cuniary support. And he would doubt-professionally called upon to love me; less have succeeded, for Sir X.Y., an it is therefore absurd that it should be urbane old man, albeit with a clear a factor in my opinion of her real consciousness of his own deserts, was worth that she should forget to pour entirely well disposed, and advanced out my tea, so busy is she haranguing with outstretched hand to greet Mr. me in a dictatorial and unsmiling man- | Z. with cordiality. But, alas! at that ner. I ought to remember that she moment Mr. Z. happened to see some would hold a cup of water to the lips one else by whom his attention was of a pauper more tenderly than a cup suddenly diverted, and, all unwitting of tea to mine; I ought to remind my- of his crime, he shook hands with Sir self that the manner so displeasing to X.Y. without looking at him, thereby me has been acquired when exhorting losing in that one moment of thoughtand instructing others less favored by lessness the good will of his interlocuthus incalculably have widened. And possible help. Mr. Z. had almost ceryet I confess that I find myself won tainly been taught in his youth always dering it it would not have been post to give his right hand instead of his sible for her to combine both forms of left when shaking hands with people, excellence, and to be deferential, and he had probably learnt it so thorcourteous, solicitously hospitable to oughly that it would never have octhe well-to-do, as well as helpful and curred to him to do anything else. admirable towards the badly off; and But he has apparently not been taught why, when great and noble ideals of also to look his interlocutor in the face conduct were being placed before her, at the same time, as if it gave him some of the minor graces of demeanor pleasure to meet him. And yet this should not as a matter of course have supplementary ordinance might have been imparted as well. It is foolish been just as easily and thoroughly

sary and advisable to do so. We could all of us, probably, cite many instances of the same kind. Mrs. A. and Mr. B. being both interested in a certain school, Mrs. A. went to see Mr. B. to discuss with him some point in the management of it. Suddenly Mr. B. caught sight of an open letter lying on the table in front of him, and he took it up and looked mechanically through it while she spoke. The result was that, although he was in reality more than willing to meet Mrs. A.'s wishes about the school, his manner, quite unintentionally, produced a feeling of unreasoning resentment in her, and she was far more angry with him for agreeing inattentively with her views than she would have been if he had differed from them after listening to her attentively and courteously. this means an absolutely unnecessary expenditure of energy. Mrs. A., being given the wrong bias at the beginning of the interview, was then annoyed with herself for being annoyed with Mr. B.; the irritation in her manner communicated itself to his, according to a law of nature as definitely ascertained as that of the propagation of the waves in the ether, and the question they had met to discuss was settled with an incalculable amount of friction, which might have been entirely avoided. It arose purely from Mr. B.'s defective training in manners. He had probably been taught as a definite precept of conduct in his youth, obeyed ever since quite unconsciously, without a separate effort of will or intention, to get up when a lady entered his room, and not to sit down with his back to her afterwards; but it would have been well for him if he had also been taught not morally to turn his back upon her by reading a letter while she was speaking to him of something else. This is one of the most exasperating and most prevalent forms of bad manners, and it reappears in an infinite variety of snapes.

Mrs. E. went one day to see Mrs. F., who is renowned for the rare gifts of her mind, heart and intelligence. Mrs. E. was prepared to be impressed by her, to admire her, to be guided by But, behold! during the whole of their interview, in which, indeed Mrs. F.'s utterances were all they were expected to be, she entirely impaired the effect of them by looking at herself in the glass all the time she was speaking. And somehow, however unreasonably, that trifling manifestation outweighed in the mind of her hearer all the brilliancy and charm of her talk, and those few moments of intercourse, so eagerly anticipated, remained in the mind of Mrs. E. as an acute disillusion. Mrs. F. would probably much have regretted this result, if she had known it, for even brilliant and superior pecple, I imagine, would prefer not to produce an impression of disillusion; and in this case, as in most others, it might quite well have been avoided. Mrs. F. ought to have been taught betimes, as everyone should be aught, not to look at her own reflection at the wrong moment; to be able to pass a stray and unexpected glass without looking in it, and, especially, never to watch herself in one while talking to other people. It is not wicked, of course, to look in the glass at the wrong moment. It is merely absurd. But why should we be even absurd if it can be avoided? There is no reason why people should be either ridiculous or unpleasing in their social relations, if they could only be taught, at an age when they are still teachable, to curb the indiscretions of their outward manifestations; if only an onlooker were allowed on occasion to cry "Casse cou!" as in the French game of our youth, when a blunderer whose eyes were bound was about to stumble over some unseen obstacle. I once heard a boy of nineteen, in conversation with a listener of more than twice his age, preface a quotation by saying: "As

was well said by a great and good man, whose name you may perhaps have heard,...." (The italics are mine.) I longed to cry "Casse cou, young man, casse cou /" for I felt that in the listener's mind that excellent youth, a devoted son and brother, honest and upright, and inwardly everything that could be desired, was being judged, tried and condemned for ever on account of his condescending manner. For affably to assume that a middleaged interlocutor might perhaps just have heard the name of a writer with whose works the young gentleman himself was apparently well acquainted was exactly one of the things I would have young people taught to avoid. Indeed, at any age it is a safe rule to follow never to appear to think that a subject of which one is speaking requires explaining, or to assume that a piece of knowledge quite familiar to one's self is not equally so to other people.

Oh, that these things might be taught calmly and urbanely, on general principles! Oh, that it were possible to have a sort of night-school for adults, where certain obvious platitudes concerning the conduct of human intercourse might be learnt, without being either given or received with the evil animus of personal application! What a different aspect they would present to the hearer, and how much more ready he would be to assimilate them! For there is no doubt that the personal bearing of the question makes all the difference. It is quite conceivable that even the most universally accepted and revered of general maxims, such as "Thou shalt not steal," say, or "Waste not, want not," would, if levelled pointedly at one's self, take quite another aspect from that which they present when offered impersonally as part of a general code of morals. This bringing in of the personal element, with its unsatisfactory results, is Wanderjahre and separate incomes-

teaching of manners as at present attempted in the family circle, and neut alizes the effect of it just at a stage when such teaching, if undertaken and carried out successfully. would be of inestimable advantage to the learner. It is obvious that this is likely to be so. Parents, even those who are more or less alive to the importance of demeanor, content themselves, while the child is young, in instructing him, as we have said above. with great thoroughness in the elemen-That being successfully tarv rules. accomplished, it does not occur to them to consider or discourse upon any wider aspects of the subject, until they suddenly discover one day that, the time of childhood being passed, the manners of the grown-up young man or woman are not all that their fond parents imagined they would be. This deficiency being disagreeably and crudely revealed by some peculiarity or lapse of manners, flying in the face of some idiosyncrasy of the parents' own, is therefore rebuked by them with much more animus than the occasion warrants. For be it said. incidentally—it is a conviction sadly forced upon one as experience ripens -that the parents' standard of their children's wrong doing is apt to be chiefly a standard of different doing. and it is no wonder that young people should often rebel against so imperfect a code of morals.

This is not the place to enlarge on a subject on which so very much still remains to be said: the best way of bringing about satisfactory relations between parents and children. only say that it seems to me that here, too, we are apt to underrate the importance of manner and manners; and that when, a year or two ago, the subject was vigorously discussed in print, the people who were all for having recourse to heroic remedies—latchkeys, one of the great drawbacks to the direct were going too far afield for the soluto weaken the effect of important and one thing I am quite sure, that the necessary admonitions by a series of wrong moment to rebuke a fault is daily and hourly minor rebukes, often when it has just been committeduncalled for, and arising from irrita never silenced, or snubbed, or sneered bility as much as from conviction, at, however much their utterances may they would not find themselves nearly seem at times to demand such reat-so helpless at the moment of essential ment, they would probably in their turn and inevitable divergence of opinion. feel inclined to reply more amiably,

tion is a good deal criticized in these many despairing discussions and indays, and I cannot deny that much of quiries as to the best way of getting on the adverse criticism may be true. I with one's family. But, instead of this, am ready to admit that the manner of it is too often taken for granted that in some young men-not of all-is con- the home circle it is allowable, and ceited, familiar, totally wanting in dis-even advisable, to dispense with the tinction and in chivalrous courtesy, small adornments of every day cour-But this, perhaps, is partly due to the tesy., The influence of such a code on fact that the manner of some young the grace of daily intercourse must girls-not of all-is characterized by necessarily be disastrous. Some chilan unpleasing decision, by a want of dren I once knew used, whenever they dignity and reserve, by an ugly sort of handed a thing to one another, to do slap-dash assurance, and by a total so combatively, with a violent push, want of delicate half-tones in the at-which invariably succeeded in infurimosphere which surrounds them. I ating the recipient. The same undeplore all these regrettable manifesta- pleasing effect is produced when chiltions. I deplore that there should be dren of a larger growth continue the prosons who come down to breakfast cess, and push their remarks or their with a scowl, and daughters who con- arguments home with a momentum tradict their mothers; and I sympa- which arouses an unreasoning fury in thize with the grievance, if not with their interlocutor. We all know what it the clamor, of the people who write is to argue with such people. It is like articles in magazines and newspapers trying to write one's opinions on sandto complain bitterly of the manners of paper instead of on a fair white sheet. the present day, and especially of the It is a crime to allow a human being want of deference shown by the young to grow up with such a manner. to older people. At the same time, I If urbanity were persistently taught fancy that statistics would show that and practised in the home there would generation that is offended by that to unlearn, with regard to intercourse want of deference. Young people do with the world at large. People would should find that they, in their turn, which we have imperfectly acquired. were often very unpleasantly affected I am not saying, of course, that in by our manner. If they were always every respect the code of behavior

tion of the problem. I believe that addressed courteously and smilingly, if older people were more careful not never admonished irritably—and of The demeanor of the younger genera- and we should perhaps not hear of so

these articles are all written by the not be so much to learn, and especially not, as a rule, write articles on the not then have two manners—one to manners of o'der ones. That, at least, use in public, and one in private. we have so far been spared. But I There would be less self-consciousness fancy that if they did, and put forth and less affectation, for these arise their views with the candor with which from trying to do a thing of which we their own manners are criticized, we are uncertain, to assume a manner

—that would be absurd; only the difference, it seems to me, should lie in the direction of there being less reserve in the family circle than among strangers, but not less gentleness and courtesy. It would not be in the least a fault of manners, for instance, for a child to fling himself on his mother's lap and throw his arms around her neck, although it would be very illmannered if he were to do the same to a visitor. But if he were to bang the door in his mother's face, that would be just as ill-mannered and just as inadmissible as if he had banged it in the face of a stranger. Often I have seen a mother—put to shame by her children's rudeness to a visitor in this respect and others—scold them roundly and unavailingly for continuing to do the ugly thing in public that she had tolerated their doing every day in the family circle. I saw the other day a young girl, gently born and anxiously brought up, coming into a drawingroom at an afternoon party just as a dowager was leaving it. To my amazement, the girl, instead of stepping back and allowing the older woman to pass her, pressed forward with all the impetus of her youthful vicer, so that the departing guest was fairly hurled back into the room, and had to wait to go out until the newcomer had pushed her way past her.'

This sort of thing ought not to be possible. And the responsibility for it lies entirely on the shoulders of the parent; for it is evident that if the girl had been taught always to step back and to yield the way to older people, she would have done so on that occasion also, gracefully and as a matter of course, and have thereby made a pleasant impression on the mind of the beholder instead of a distinctly unpleasant one. We are told that in the days of Mrs. Chapone there stood in the courtyard of a boarding-school

should be the same at home as abroad that the young ladies—it was part of their daily course of study-might practise getting in and out of it without showing their ankles. I am not advocating that this practice should I fear that some of the continue. modern pastimes to which young women are addicted necessitate showing a good deal more of their ankles, to put it mildly, than the contemporaries of Mrs. Chapone would willingly have beheld. But I do think it would be an excellent plan, although It fear it might be attended with some practical difficulties, if an empty railway carriage could stand in every courtyard, with a crowd of intending passengers to practise upon. people might study the art of getting in quietly, courteously, and in their turn, instead of pushing their way past in order to get in first, declining to make room for other people, and generally indulging in all the numerousforms of bad manners that railway: travel seems to induce. Such an exercise would also be found useful as a guide to behavior at drawing-room entertainments and other occasions of the same kind where the object apparently is to secure the best seats at any cost of manners.

How delightful it would be, though perhaps such a project is only a rosy dream, if a class could be formed, just as classes for learning the minuet havebeen formed, for instruction in demeanor in a drawing-room, showing inpractice as well as in theory how tomove through it with ease and dignity, how to behave when listening to: conversation or joining in it, when listening to music, when playing cards. or round games! Demeanor at games. is one of the things that the bestbehaved fall short in, and unless it betaught in the home, where there are countless opportunities of doing so. it will never be learnt at all. I have been stupefied sometimes, when watch. at Brighton an empty coach, in order ing in a country house some draw-

to be decided occasionally by the ver- if at all, by oral tradition, as if we were moniously to poor children whose only inestimable value to those who teach previous notion of a game had been to from it as well to those who learn. It people to play with themselves, and to some course of conduct, "My father could in their turn give up an evening has been useful where more elaborate a week for that purpose.

is some scheme by which a complete of such a precept—although in this training in demeanor should form part case not very successful—I may cite a regular curriculum. method of tuition, instead of, as at would have been altogether delightful present, consisting of haphazard scold if his mother had not impressed on ings, should consist of a systematic him in his youth that it was very rude course of instruction in the higher ever to leave off speaking. Whatever branches of manner or manners, to interesting general conversation was follow as a matter of course the ele going on, therefore—and it is essential mentary grounding. It is unreason to be able on occasion to take part in able to expect, as we do at the present, general conversation as much by apthat young people arrived at a given preciative silence as by voluble partistage of existence would know by in-cipation—he never suffered silence to tuition that which we have never dereign in his own little corner, but liberately tried to teach them. Let us would continue, during the most help them, therefore, to acquire be enthralling utterances of some distimes certain general maxims of con-tinguished talker, to pour into the ear duct, which should be contained, like of his distracted neighbor some tedious other branches of knowledge, in a book commonplace on the weather and the compiled for the purpose. I attach academy, feeling, in consequence of great importance to their being in a his early training, that even this was book. The mere fact of seeing such better than nothing. This was an

ing-room game of the kind that has maxims—at present handed on to us, dict of the players, to see the people Druids, and that in an infinite variety that I have been accustomed to con- of imperfect forms, according to the sider the most punctiliously polite de- transmitter-clearly defined and set velop the most surprising acrimonious down in print would place them in ness, rudeness and self-assertion. If quite another aspect, would increase this is not remedied in childhood it our confidence in them, and would be will never be cured. One feature of of great help to us in carrying them the excellent work known as the Chil- out. And since there is nothing that dren's Happy Evening Association is, teaches a thing so thoroughly as trying I am told, that it teaches the art of to impart it to others, the constant use playing together pleasantly and har- of this handbook will be, probably, of cuff or abuse the one who got the bet must have come within most people's ter of them. I only wish this training experience to realize the influence that could be extended to other circles, and has been exercised by some homethat some of those very people, per- grown precept of behavior that they haps, who have been playing with the have been accustomed to hear from children at the East End, could, when early years. How often you hear a back in their own surroundings, have man or woman say, when explaining teach them the art of politeness over a and mother used always to say . . .;" game of cards or of letters. Perhaps and then follows some rule of the road some philanthropic dukes and princes of life, which, from its very simplicity, exhortations have been forgotten. In conclusion, then, what we want an instance of the persistent influence The most estimable member of society, who

strokes ahead. observed in conversation. heard it so stated.

should, when illustrated by examples to understand that unless he alters his

error of judgment, no doubt, on the and a copious commentary, form a part of his mother; but to see the complete code of minor morals, and necessity of impressing such precepts should serve as a handbook to the at all on the mind of a child is a step gentle art of human intercourse; holdin the right direction. And the error ing a place between the manual of of judgment simply shows the neces- etiquette on one side, which deals only sity of having them formulated with with immaterial and fleeting details of care and discretion. In China, we are usage, and the teachings of a wider told, it is stated in the classics that the morality on the other, dealing with the laws and rules of ceremony are three laws and motives of conduct, and not hundred and the rules of behavior with their outward manifestations. three thousand. We in this country The ordinary manual of etiquette, as cannot, I fear, hope for a code so we know it at present—we probably complete, although there is no doubt all of us smile at the name—is not a that we should most of us be the bet-very useful adjunct to demeanor, alter for a few hundred suggestions on though it is quite conceivable that it the subject. But, without going even might be more valuable if done upon to that length, there is no reason why slightly different lines, and with a little the laws of behavior should not be as more subtlety of discrimination than clearly stated as those of golf or cricket, usually accompanies it. We have yet and, presented in this systematic form, to be given a book of the higher as easy to acquire. Most young people etiquette, if I may so call it—a book know in these days that a golf player of precepts for every-day conduct done must not strike a ball from the tee on simple lines, and giving us, not only until the player in front of him is two the general outline of what I may call That rule, amongst our trivial duty to our neighbor, but others, is put up on every golf ground. also suggestions in detail, which would But they do not know, since it is not be most specially useful. We all know how put up in every drawing-room, that sometimes some quite simple suggesvery much the same rule should be tion has enabled us to avoid a pitfall, to A golf remove a stumbling block of which we player would not think of standing were unable to discover the cause. quite close to the tee from which some We know how maddening it is when one else is driving off, with his club a piano jingles or a machine sticks for raised to strike before the other has some mysterious reason that we cannot well played. But when he is playing discover, and how intensely grateful the game of conversation, he thinks we are to the person who shows us nothing of standing impatiently, with where the difficulty lies and enables his mouth open, while the other player us to remove it. Just as grateful should is speaking, obviously not listening, we be to the person who, when our but waiting to speak himself the mo- manner jingles, so to speak, and causes ment the other shall have done. He our friends to avoid playing upon it, obeys the former rule because he has can, by proposing a simple expedient, seen and heard it clearly stated as a put us on the right lines to remedy the rule of the game; he transgresses the defect. And here let me again plead latter one because he has not seen or that these suggestions should not lofty an altitude. ascend to too These rules, therefore, should be The unfortunate offender in these drawn up and tabulated in a conveni matters is apt to be approached The manual thus compiled on the highest moral level, and given

heart, he cannot hope to mend the error of his ways. This, if I may be lorgiven for saying so, is a very needlessly heavy and discouraging line to take, for it is much more difficult to alter one's heart than one's manner.

We will suppose, for example, that you have become conscious of the disheartening fact that you fail to please your neighbor; and a deadly fear sizes you that it may be because you have bored him. If you should seek the best way to remedy this state of things, the advice you would be most likely to receive, either from yourself or other people, would be to the effect that in order to please others you should be unselfish and love your neighbor better than yourself; you should cultivate humility, generosity, charity, and many other virtues. the result of this will probably be that the unfortunate offender, horribly discouraged at having so vast a field of moral achievement presented to him, and not knowing from which point to approach it, will content himself by endeavoring, as before, to comply in the general with all that the code of morals prescribes, while he continues in detail to annoy his fellow-creatures at every turn, for want of some simple rule of behavior quite easy to carry out.

For instance, we are told as a general maxim that we should sympathize with other people's joys and sorrows; and so ready are we to comply with this precept that we all fondly believe we carry it out. So presumably we do, in intention. The mistake is that we do not always translate this intention sufficiently clearly into words. Indeed, we often convey an impression quite opposed to that of sympathetic benev-We should probably none of olence. us acknowledge, or even conceive it to be possible, that we should not be sorry to hear of another person's sufferng, whether mental or physical. And

whole nature, and gets him a new yet, if an instance of it is brought before us in a concrete form, by the sufferer telling us of a bad night, a chronic complaint or the misdoings of an unruly servant, what do we do? Do we seem sorry? Do we concentrate our attention on the misfortunes of the narrator and pour consolation into his ear? Not at all. The moment his grievance has left his lips we instantly reply by a similar grievance of our own, for which we demand his sympathy instead of presenting him ours. think I am well within the mark in saying that on eighteen out of twenty occasions in which one human being says to another, "I awoke at five this morning," or "I didn't close my eyes until dawn," the other one will reply, "And I woke at four," or "I didn't go to sleep until the sun was shining." Let the observer whose attention has been called to this topic notice, for example, at a breakfast-table in a country house, how, if one person says he has been awakened by a thrush at 3 a.m., he will in one moment be in possession of the experience of the entire table, without one word from anyone of comment or sympathy on the experience of others. Indeed, the interested observer will probably be conscious that he has to withhold himself by main force from contributing his own quota to the list. Let one of the simple rules to be contained in our book, then, be, never to say how you have slept yourself when your neighbor tells you what sort of a night he has Such a rule will be easily remembered and the habit of complying with it easily acquired. It sounds trivial and absurd, no doubt; but I believe that compliance with a score of such maxims, judiciously chosen and constantly obeyed, would make more difference to each one of us than we are well ready to imagine, and would be of incalculable help in oiling the wheels of daily intercourse.

And to make the machinery of life

run smoothly is surely well worth doing, instead of daily throwing a handful of sand among the wheels; for it would be as easy to pick up again one by one actual grains of sand so thrown, and reassemble them in one's hand, as to remove the effect of a hundred little crudities of manner and manners with which some people are wont to roughen the path of life for themselves and for others. These are the things which stand in the way of success; not only of "worldly" success and advancement, to use the conventional expression in its most grovelling sense, but of that other success, worldly too, perhaps, but in a higher sense, of making the best of this world while we live in it in regard to our relations with our kind. Let us realize that this lies a great deal more within our own hands than we are apt to think. Let us help tures. -Nineteenth Century. one another to learn the way of achiev-

ing it. It means taking a good dea of trouble, no doubt; it means a good deal of deliberation and sustained effort. and, at the same time, will depend a good deal more on the small things we do than on the big ones. This thought is not necessarily comforting. It is to many people rather the reverse; for in our hearts we most of us agree with the Eastern proverb, "One great deed is easier than a thousand small ones." But the great opportunity, that we should doubtless so promptly and brilliantly embrace, does not come to us all; and, instead of letting so much potential heroism run to waste, we had better employ it in the countless daily opportunities that we all have of winning by the veriest trifles-or of putting away from us, as the case may be-the good-will of our fellow-crea-

THE GENESIS OF GEOMETRY IN THE RACE. AND THE EDU-CATION OF THE INDIVIDUAL.

By BENCHARA BRANFORD.

(Continued from page 300)

cians, the first, and one of the most effort, in mature minds as the ultimate eminent, was Euclid, who systematized on philosophic basis (with substantial additions of his own) the geometrical knowledge slowly evolved during preceding centuries in his famous "Elements"—a text-book students of philosophy and science in the then newly founded University of Alexandria, but no fit " meat for babes and sucklings." To educationists it is of the first importance to understand that this highly ambiguous word "Elements" in the title (Euclid's "Elements of Geometry") refers not to the rudimentary psychologic elements in the genesis of the child's empirical knowledge of the world around as geo-

Of these professional mathemati-| that emerged finally, after centuries of outcome of a long line of philosophic abstractions (definitions, axioms, theorems, etc.), whereby geometry was fashioned into a perfect science. To clearly understand this is to perceive the monstrous inversion of natural order exhibited by the present traditional method of presenting geometry. to schoolboys in the guise of Euclid. It is a continual attempt to balance a cone on its apex!

To any one who has searchingly examined the method of mathematical education obtaining in this country, and is aware of its grave defects, the application of the above historical epitome, under the inspiration of the metrical, but to the logical elements dominant idea of this essay (the parallelism between the education of the final perfect emancipation of the ideas race and of the individual), should from the particular concrete embodinow be obvious.

and inquiry, I add a few detailed sug- education entails inability, in subsegestions. Waiving the vexed question quent years of life, to make effective as to the mode of genesis of space- use of the narrow and particular for perception in infancy, we come to an the emergence of the comprehensive age, varying in different children, when and general. The aim throughout under appropriate stimulation, by lead the mathematical education is the ing questions concerning objects pre-mastery of form by sight and hand and sented to the senses, the child becomes thought. It is neither the purely capable of voluntarily directing its abstract thinker nor the voiceless inattention to a consideration of the tuition of the savage we strive to proform of such objects, to the exclusion duce, but the consciously disciplined of other properties (color, etc.). Its artist, at once thinker and doer. stock of space-perceptions (acquired Gradually the child gains a store of the teacher needs faith and tact

wealth of the objects to be appre-neglected; so that from all sides we hended, or by failing to create the find teachers of physics, chemistry,

ments from which in the first instance However, to evoke great interest they sprang. This latter extreme in

partly by painful, and partly by pleas- geometrical knowledge that is clear, ureable, struggle with its environment) conscious, rational, and definite in now gradually becomes transmuted, comparison with the mental results of by external stimulus to its own self- his previous experience, but vague, activity, into a descriptive knowledge empirical, and indefinite relatively to of form, a knowledge in which percepthe mastery we desire him ultimately tions fuse together into conceptions to obtain. By appropriate stimulus by being attached to a descriptive the child will now be incited to a name, so fertilizing is a union of lan-desire for more exact processes, for guage with objective embodiments of fuller, clearer knowledge. The idea form—either useless without the other of measurement waxes in importance; -in rendering clearer, more true and simple instruments are made by the precise, the early intuitions of the child himself-many and fertile will Here, as throughout education, be the ideas thereby originated—and lengths, surfaces, and volumes yield While great care must be taken to numerical results under the potent avoid over-preciseness in the use of influence of simple arithmetical ideas. terms, thereby incurring the danger of Tables of such results (no measuresupplying the word without any idea, ments should be wasted; all should equally harmful is the other extreme, contribute to final results), scanned where it is imagined that the mere with lively attention, give rise to new examination of an object, without demands on arithmetic; general rules attention to the wonderful function of for measurements emerge, with a hint descriptive language, suffices to stimulate the creative activity of the child. for, and thenceforward the joy of distribution of the present evil is premature over-covery becomes the most effective of elaboration and refinement of the educational agents. Geometrical know-abstract in the formation of knowledge, ledge and skill in simple arithmetical A recoil from this is apt to land us in computations grow pari passu; this the other extreme of clogging the mutual co-operation and assimilation growth of freedom of thought, either of the two studies is of the highest by confusing the ideas with the very importance. At present it is entirely

etc., complaining of the utter inability speculative interest, should of pupils to apply arithmetic. Observe, under the form of a work of art. symbols and abstractions extending it point from the small to the great. of varied form, attention will be drawn stow a little gift in its name. Herbart ("The ABC of Sense-Per- hope of slipping through unreproved. ception," 1803) well remarks, all mag- Noteworthy, as historical parallel, is powerful to evoke its finest activities. empirical at first, subsequently develby adding to their linear dimensions finally, after centuries of laborious prepare for the future easy apprehen- tho ht, perfected by the labors of sion of a differential coefficient. Plane Newton, Leibnitz, and others. Very and other shapes give access to the cation. idea of a ruled surface; such are the So far, in the pupil's education, we surfaces the pupil's pencils are con- have assumed that all has been stantly describing in space, as it is approximate, empirical. That the area handled. And so on. The pith of of a concrete triangle is practically half the matter is thus eloquently described the base into the height is, as yet, by Herbart, the great German educa- simply a wide induction. Neverthetionist:—"The ABC of sense-per less, but little additional stimulus is ception," he writes (Eckoff's English needed to rapidly convert such empiritranslation, page 181), "is only the cal facts into scientific theorems; prologue to mathematics, and is really when attention is drawn to the fact mathematics which, by guiding, in that no lines actually visible can be citing, moving, and satisfying the drawn without breadth, and that greater

throughout these final brief remarks, even this little prologue should consti-the historical parallel. Let not the tute its preparations towards the reteacher fear to introduce ideas that, sult. Let it be clear even by itself; probably, in his own education, were let it be well grounded; let it appeal the last of a long line of tedious to the senses; above all, however, let over years, ideas which lie at the very should make felt everywhere the presroots of scientific thought. Thus, in ence of the great science (of mathethe detailed measurements of triangles matics). It ought sometimes to beto the amount of change produced in invisible hand of the great science let the lengths of the sides by certain it cause a knot to be loosened now changes of a definite amount in an and then, or a fault to be rectified. angle, one side being fixed, and, say, Again, by the omniscience of matheone angle a right angle (an empirical matics, let faul s be brought to light, right angle, at present). Here we so as to compel their confession by have the germs of trigonometry with- the drawings, the instruments, and the out symbolism. Thus is introduced imperfectness of computations. Carethe idea of a variable magnitude and lessness and misapprehension espeof mutual dependence; indeed, as cially must not be allowed the slightest

nitudes should, from the very start, be the attempt of the Greek geometers to so taught as to be constantly consid- square the circle; they attempted to ered fluxional; it is, perhaps, the exhaust the circle by means of ingravest defects of present methods scribed and circumscribed polygons that the ideas grow fossilized and the with a continually increasing number imagination fails to expand, encounter- of sides; here we find the germs of ing no external stimulus sufficiently the infinitesimal calculus, crude and Rough measurements of the rapidity oping into a rigorous deductive prowith which areas and volumes grow cess (the method of exhaustion), and, surfaces rolled into cylinders and cones, obvious is the bearing of this on edu-

precision is attainable in our measurements the better our instruments and soon become convinced that the isolathe finer drawn our figures, the mind tion that now exists between geometry, is fit for the discovery of definitions arithmetic, algebra, etc., is radically and scientific theorems—such as are vicious. "Arithmetic is one thing, presented in Euclid. Here, again, algebra another, geometry a third, and education, even when the ideas of ant of their relation and mutual helpfulabstract reasoning.

divorced from the concrete. Modern patches. educational experience amply exhibits matter as the truth obviously stands. geously in strange symbolism. experience."

If this criticism is valid, then we lies danger of an extreme. Assuredly so on. We learn them from different it is a fundamental error, in school books at different hours. We are ignordefinitions and theorems have grown ness." Such, doubtless, is the attitude familiar, to have that complete divorce of the average school youth when between the concrete and abstract attention is directed to the question. which now almost universally prevails. Yet, what is the worth of all these While in no whit deviating from a studies unless every conception, findstrictly rigorous use of certain terms ing its appropriate place in the scheme and syllogistically stated proofs of cer of all the rest of our knowledge, helps tain theorems, a philosophical teacher to a more clear, unified mastery of will continuously make effective use of facts? Juxtaposition of subjects in the the fact that, at every stage of scientific curriculum does not imply harmonious mastery by the puril, there looms cer- assimilation of them by the mind of the tain material of knowledge which can pupil. Without any resulting conbest be first assimilated *empirically*, fusion, all these branches of mathematand should only gradually be subjected ical study can be commingled and to the stricter demands of exact, become materially helpful, so that the mind sees its mathematical conceptions Turning to history, we find that and processes in the light of a beautinever without detriment to pure ful, well-ordered, and powerful whole, science has the abstract been long instead of a thing of shreds and

The present extraordinary insistence, the pernicious effects where teaching is in elementary teaching, upon a comrestricted to the purely abstract. It is paratively tew ideas, their tedious elabnot long ago since Euclid was memor- oration and fixation by mere rote ized by rote! The fact that all meas work without stimulus to the evolution urement of nature is necessarily ap- of imaginative self-activity, critical proximate, never exact, is a truth that taste and inventiven ss-all ultimately appears to have been almost com- lead to inability to grasp new ideas pletely ignored in mathematical educa- when they are encountered suddenly tion, fundamentally relevant to the in the higher branches, clothed gor-Approximations, concrete applications remedy for this is to keep the invenof pure theory, should occupy through- tion ever at work, and the assimilative out the educational curriculum a fun-function fresh and vigorous by condamental place. It is clearly possible stantly bringing down for discussion to present such practical problems and simple application into the very that the very effort to attain a solution elements those fruitful and great ideas leads to the demand for still higher that certainly demand ultimately for and fuller theoretical knowledge. Let deeper treatment a special symbolism us here employ to the fullest that for themselves, but which are relativeprinciple of all mastery: "Studies per- ly simple in inception when divested fect nature, and are perfected by of such symbolism. The plotting of curves, modelling of surfaces, with the

concomitant ideas of analytical geom- concrete; the empirical periodically etry (plane and solid), the fundamental ideas of the calculus (differential and integral) through approximations, the plentiful use of axioms (not) restricting the science to a minimum of such, with resulting tediousness and great loss of power)—all such conceptions it is desirable to create as speedily as the interest is sure to be awakened in them.

Here, again, the teacher must be inspired with knowledge, not only of these higher branches, but of their gradual historical evolution. Seeds of thought must be planted long before they grow to perfection and ripeness. Above all must he have faith in the intelligence of his pupil and the great future in store for it under the jaidance and stimulus of sympathetic teaching.

abstract Euclid) of attempting to precrete clothes; perception by stract constantly alternate with the tionists.

precede the scientific on ever higher and more difficult planes of inquiry.

As regards the attitude of the pupil, this should be one of disciplined selfactivity and invention, the motives being partly the desire of applying his knowledge to interesting concrete problems, and partly (so far as distinguishable from the other) his own curiosity about the wonderful properties and development of these abstract creations of the intellect.

Finally, looking back on modern educational experience, we see mathematics employed in the education of one generation in the way of dogmatic rules of thumb, an extreme of concrete presentation; in another generation we get the other extreme, where the presentation is so purely abstract at the very outset that Euclid is generally Of course, in introducing these learned by rote! The genesis of geoideas of mathematics so much earlier metrical knowledge in the race clearly than usual, we must not make the indicates the most efficient order of mistake (which would be ide...tical with development for the individual—inthat at present perpetrated in com- cessant action and reaction between abmencing geometrical education with stract thought and concrete measurement.

Moreover, only thus can due scope sent them in completed abstract form be given for the exhibition of those -an attempt certain to result in dire powerful varieties in intellect and charfailure; but we must give simply the acter amongst the pupils upon the due germ of each idea in particular con- development of which depends, obthe viously, the progress of the race. senses should precede the pure result- Here, finally, we note again the suging abstraction. Thus should the ab- gestiveness of our parallel for educa-

man's destiny are the defects of all that ception of personality, that being posis intellectual and resthetic-a coordinate, harmonious whole, whereof find happiness in a correlation and the individual is but a part; not moral or religious—a self-surrender of the in-the independent conformity of each. dividual to the supreme will; conseled to a supreme self. Hence it was quently (2) it does not provide for that, with all its marvellous grasp and every human being, as such, but only manly prudence, the ideal of Aristotle for a small, select number, the fruit of proved powerless to restore the moral

"The defects of Aristotle's view of Greek never arrived at a distant con-They are two: (1) Its ideal sible only through the moral consciousnets, which is its core. It seeks to balancing of individual selves, not in Its ethics are institu- unity of man, until it was absorbed in tional, not personal, and, indeed, the a higher."—Thos. Davidson's Aristotle.

PRINCE EDWARD ISLAND TEACHERS' CONVENTION.

By Inspector G. J. McCormac.

Edward Island was held in the Y.M.C. day and Friday, 6th and 7th October. There were 200 teachers in attendance. The president of the Association, Principal Campbell, of Summerside High School, presided at all the meetings. On Thursday forenoon the Association had the pleasure of visiting the Charlottetown Kindergarten, conducted by Miss Sayre. Here two hours were spent very profitably, as well as pleasantly, and all left very favorably impressed with the benefits of the Kindergarten as a part of our school system.

soul, and claimed that the aim of true education must be the deepening of spiritual life, so that the soul of man shall bless the earth by its presence and work, and ultimately return to the bosom of the God who gave it birth. Prof. Hickman gave a very interesting talk on "Nature Studies," which was much appreciated. He asked for a more general recognition of the value of nature studies as an educational force, and a more frequent use of such studies. particularly in the rural The study of nature is the schools. best and highest foundation for morality, and a preparation for the revealed truth that comes to the child later in life. Froebel says "the spirit of God rests in nature, lives and reigns in nature, is expressed in nature, is communicated by nature, is developed and cultivated by nature."

ing was held which was largely attend- Modern Aspects of Education."

The Nineteenth Annual Convention ed. F. P. Taylor, M.D., a member of of the Teachers' Association of Prince the City School Board, presided, and introduced as the first speaker His A. Hall, Charlottetown, on Thurs- Worship Mayor Warburton, who in behalf of the city extended a warm and cordial welcome to the teachers. urged upon them to endeavor to form Maritime Teachers Association, where a wider interchange of ideas would be effected, and suggestions, mutually beneficial, would be given. He hoped the next mayor of Charlottetown would have the honor of presiding over a Maritime Teachers' Association. President Campbell replied, thanking the mayor for his very hearty His address was concise welcome. and pointed. He showed up some of At the afternoon session a well writtle defects of our school system—the ten philosophical paper, entitled "The want of normal training for teachers, Human Soul in Education," was read and the want of sufficient remuneraby Mr. J. A. Ready, B.A. In it he tion for teachers. The salaries paid described the several faculties of the cur teachers are so small that our best teachers regard the profession as an admirable one-to get out of as quickly as possible. Good schools, and progression, he said, poor schools and stagnation—these are as closely allied as cause and effect. The country with poor schools must soon scramble for the crumbs that fall from the table of progressive countries. Just as a woodman can make progress without sharpening his axe, or a farmer without cultivating his corn, so can a country advance without improving its educational system. The teacher makes the school. He is the soul, the heart, the life of the school, and in the school are laid the foundations of our country, be they sound or unsound. Mr. G. N. Hay, Ph.D., editor of The Educational Review, St. John, supported Mayor Warburton's remarks anent a Maritime Teachers' Association, and then On Thur day evening a public meet- read an admirable paper on "The

"School System of Nova Scotia."

teacher as a force in the formation of from the Provincial treasury an amount, character, and pointed out the great in addition to his statutory or regulated influence which the teachers have salary, equal to any amount raised for either for good or evil.

was favored with readings, recitations, ceeding twenty-five dollars."

and vocal solos.

that more time and attention should number of teachers present.

Seaman moved a resolution strongly censuring the government for the re-

Prof. Hickman spoke briefly on the peal of the supplementary clause of the Public Schools' Act. The clause Chief Superintendent McLeod was referred to read as follows: "Every the last speaker. He spoke on the teacher shall be entitled to receive his support by the district by the local Besides the addresses the audience assessment upon such district not exsection was repealed at the last session At Friday's forenoon session In of the Provincial Legislature.) Quite spector McCormac read a paper en- a lively discussion followed. Premier titled "The Spirit of the Teacher." Farquharson and Mr. D. A. McKin-Mr. Hay gave a very instructive lesson non, M.P.P., were present, and spoke on "Botany," and Mr. H. J. Palmer, in response to an invitation from the Q.C., made a very appropriate speech President. After a resolution in favor on "Composition." Mr. Palmer said of withdrawing the resolution under he was greatly pleased with the re-discussion was voted down, the momarkable progress made in teaching tion was carried by a standing vofe, the higher branches, but thought only two opposing it out of the large be devoted to composition. Students election of officers was the last work go through college, and yet have a of perhaps the most successful and very inadequate grasp of composition. most beneficial convention ever held At the afternoon session Principal by the teachers of the Island Province.

St. Georges, P.E.I., Oct. 18,1898.

"THE OLD ORDER CHANGETH."

It is not very long since ex-President situation, quick and earnest in every Cleveland, in the course of an address effort to advance their happiness and that American politics do not attract cultivated men. "It is," he said, "exceedingly unfortunate that politics should be regarded in any quarter as those claiming to be educated or reout by our universities and colleges, not only the counsellers of their fellowlife, sympathetic in every untoward or less fairly educated, is enormous;

to the students at Princeton University, welfare, and prompt and sturdy in the took occasion to comment on the fact defence of all their rights." We conmend these statesmanlike words to the most highly educated and most students who are just now gathering at our Canadian universities, we presume, with an aspiration to become nation builders. It may be asked, an unclean thing, to be avoided by however, what the universities are doing towards the direct fulfilment of spectable. I would have those sent this the end of their existence, namely, the preparing of men to be the leaders of the masses. The United States countrymen, but the tribunes of the possesses about four hundred universipeople, fully appreciating every con- ties or colleges with university powers, dition that presses upon their daily and the annual output of men, more

yet it appears to affect only in a very large alcove. These two rooms are finslight degree the situation deprecated ished in sage oak. The woodwork alone

by the President.

predominate among the legislators, panelling reaches five feet high. Then many of whom, like Burke, Brougham, come two feet of green Japanese cloth, Earl Derby, Gladstone, the Marquis and then woodwork which reaches the of Salisbury and Curzon, have been ceiling. The floors are of hardwood. equally distinguished for statesmanship A large sage oak window seat has been and scholarship. It is true that there built in the study and the alcove has is no official recognition of the science a magnificent oak bookcase built in of politics at either Oxford or Cam-the wall. The furnishings are to be in bridge, but unofficially, among the the old English style, rather in the students themselves by means of their dark order, and sombre. This will be debating societies and political associa- relieved by a hallway entrance which tions, training in practical economics is finished in crimson." of no mean order is obtainable, and which, in many instances, has paved young man who departs so far from the way to success in the highest democratic simplicity is said among paradoxically, said that the universities far back date followed that of hawking of Oxford and Cambridge are aristo- oysters. A nominal university educacratic associations with democratic tion, obtained amid such Sybaritic surproclivities, and it is certain, in mod-roundings, is not the most admirable ern times at least, that nowhere has method of raising up "tribunes of the ability a better field or snobbery less people, fully appreciating every conencouragement. No doubt things dition that presses upon daily life." If have much changed since the days of sumptuary laws are justifiable any-Chaucer's Clerk of Oxenford, who

A twenty bokes, clothed in black or tellectual ability and character alone red.

Of Aristotle, and his philosophie,

the great universities would a "nouv distinctions, whether of inherited culeau riche" find it possible to provide ture or of mere wealth, and which a newspaper paragraph like the follow- gives little or no encouragement to the ing: "Morley Hall is the finest of invidious fellowships of secret societhe new Harvard dormitories, and the ties. The development of patriotic young man's rooms will be the most citizenship and of devotion to the cause magnificent in the college. He planned of humanity should be the guiding the decorations himself. The living principle of all educational organizaapartment consist. of a study and a tion.

will cost a thousand dollars. It is in In British politics, university men the old English style. The carved

The founder of the family of the It has been aptly, if somewhat his various avocations to have at no where it is surely in institutions of learning, where rich and poor should ... was lever han at his beddes hed, meet on equal footing, and where inshould confer eminence. But far bet-Of Aristotle, and his philosophie, Than robes riche, or fidel, or sautrie, which happily prevails in our Canadian institutions which within univerbut, on the other hand, at neither of sity precincts frowns down all class

LIFE IS STRUGGLE.

To wear out heart and nerves and brain And give oneself a world of pain; Be eager, angry, fierce, and hot, Imperious, supple—God knows what, For what's all one to have or not; O false, unwise, absurd, and vain! For 'tis not joy, it is not gain, It is not in itself a bl ss, Only it is precisely this

That keeps us all alive.

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To say we truly feel the pain,
And quite are sinking with the strain;
Entirely, simply, undeceived,
Believe and say we ne'er believed
The object, e'en were it achieved,
A thing we e'er had cared to keep;
With heart and soul to hold it cheap,
And then to go and try it again;
O, 'tis not joy, and 'tis not bliss,
Only it is precisely this
That keeps us still alive

—Arthur Hugh Clough.

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 doubtful light.

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

Orchards are known to have what are calle 'their "off-seasons," and so may teachers' conventions, and perhaps one of the most noticeable of such phenomena was the convention of teachers lately held in Montreal; at least, so we gather from the somewhat meagre newspaper reports of the the meetings. and congratulatory motions which had to be passed at its close to give the affair an appearance This is not likely to occur of success. at the next annual gathering, when the presence of Dr. Robins in the chair will, no doubt, give the proceedings an éclat which that gentleman's experience as a presiding officer and as an educationist of the higher gifts is sure to bring to the office. When it is said that the proceedings were not much of a success, it must not be supposed that there were no important points of educational interest to the teachers of the Province of Quebec discussed. some of the public addresses, as in Professor Clark Murray's paper on child study, or "The Child Problem," and in Dr. Field's investigation of "School Eyesight," there were set be-

while in Miss Edey's paper on "The Country School and its Work," in Mr. H. A. Honeyman's enumeration of the "Distracting Elements in School Life," in Mr. E. N. Brown's paper on "The Spelling Question," in Miss Margaret Ross's presentation of how to teach "Elementary Geography," in Dr. Adams' illustrated lecture on " Physical Geography," in Mr. George A. Jordan's address on the "Functions of the Local Association, and in Mr. Arthy's paper on "Arithmetic," there were presented many phases of school work interspersed with wholesome pedagogic suggestions. ports from the various committees and sub committees were received and adopted, and the reforms indicated by them are likely to be, inaugurated by the new executive. The proceedings were not barren of interest, but they were as near being so, it is said, as the friends of the Association would care to see the proceedings of any subsequent convention.

and in Dr. Field's investigation of "School Eyesight," there were set before the teachers the necessities which ought to drive them, if they would be successful, back to first principles; tion, it seems that a new procedure is

long as its executive holds together; contest for or against prohibition. Association by methods which even the advancement. duce for them at the next election.

ventor of a new electioneering method vote as their leaders dictate. is a disturber of the peace, but his inventions generally lead to the estimate

invented once a year, and its constitu- the ethics our teachers propose to tion, if these inventions continue, is teach in school. A measure can only all but sure to become an ethical be right in itself, and no vote, however curiosity worthy of examination even cunningly collated, can make the by such a high authority as Sir John wrong way of doing things the right Bourinot himself. If the Association way of doing things. A vote too often is losing its prestige, there are some only makes the worse appear the better gentlemen connected with it who are reason, and we all know how our polibound not to lose their prestige as ticians can handle it as such even in a and the teachers themselves have now is a pity, however, that the politician's lost for the most part their interest in canvassings and counter-canvassings the results of the election, refusing to should have any part in our various vote, and only laughing at those who social organizations for the promotion succeed in selecting the officers of the of brotherly kindness and professional The politician has Rev. Mr. Taylor is now inclined to special methods of his own, as we are think savor a little of unfairness, so often told, and he is a daring writer When it is said that the executive is who, would venture to interfere with selected rather than elected, it must them, or counsel a reformation. But not be thought that the executive is a they are none the less wrong in prinpoor executive as it at present stands, ciple, and have never done anything It is perhaps as strong an executive as for the good of society. They are not could be elected, and will no doubt even the "evil done that good may do excellent work. And the teachers come." And in our social organizawill simply have to be patient until tions and professional guilds all inthey see what new election procedure direct methods of maturing public an active member's foresight will pro- opinion should be discountenanced as at least dishonorable. What has the right or wrong kind of philanthropy to The subject of civics is not alto do with a vote as an argument in its gether neglected in our schools, and favor? The right kind of philanthropy the above reference to one of our is the true philanthropy, and no mamany teachers' associations leads us to jority of votes can make it a pseudothe consideration of the example that philanthropy. And are our teachers' is in most cases better than precept, associations not philanthropic institu-The question of how an executive tions? If the teacher would therefore should be elected is more important gain a practical knowledge of the than the personnel of the executive, civics he would teach, he must gain it and the tampering with the constitut in his associations with his fellows, in tion of an association for the sake of the social organizations to which he producing certain results is always fol-belongs, and not from the indirect lowed by a disturbance to the good methods of the politicians or of those feeling in any society. It would per- who answer all argument by collating haps be too much to say that the in- a vote or by organizing a caucus to

The ethical reformer has almost as of the unthinking that whatever issue hard a road to travel as the policeman. has a majority in its favor must neces- The wrong-doer has never much love sarily be right. And this is surely not for the detective, nor even for his

adviser, and, in referring to this questof of our teachers, and protect them in tion of practical civics in the general, their rights. Through their honest exit is likely enough that we will be mis- pression of opinion in our correspondunderstood. But we have no side to ence columns and elsewhere it is our take in this matter save the right side. purpose to promote the general edu-A teacher must first learn to vote before cational advancement of the whole he can train young folks the right way country, and we invite the co operation to vote and understand the iniquity of all our teachers in the enterprise of the canvass as practised by many we have undertaken in their behalf. of our politicians. The promptings of the canvasser are as iniquitous as the promptings in the class-room. pupil must think before he speaks if ive career of one who, though not an he would speak sense, and the voter educationist in the stricter meaning of must think for himself before he can that term, was a philanthropist who vote conscientiously and become a had always the kindliest sympathy sound factor in the forming of a whole- with educational movements in Brantsome public opinion in a society or in ford, and in connection with Presbya constituency. which every teacher should be able to sudden in the midst of his activities, teach from the standpoint of his per- preparing, as he was, to attend a meetsonal integrity, and when we have ing of the Executive of the Pan-Pressaid this we have said all that we are byterian Council at St. Louis, and to going to say at present about any of further mature his favorite schemes in our provincial associations, or of the favor of the Home Mission. His indirect methods practised by some of monument remains to Brantford and their members when election time to Canada in the Brantford Young comes round. CATIONAL MONTHLY is not a provin mental in building. Though a Scotscial periodical seeking to mix itself man by birth, he was a true Canadian up in local differences of opinion. It in feeling, as many of his writings show. is interested in the educational affairs of Montreal and the Province of Quebec, as it is interested in the educa- by Dr. E. C. Fields many observations tional affairs of Halifax and Nova which are of primary importance in Scotia, of Toronto and Ontario, or of connection with school work, and any other city or province in the Do- ought to be made known to teachers, minion. In mentioning individuals in parents, and all interested in the our pages we have not confined our-proper upbringing of children. selves merely to laudatory remarks, and teaching profession, as he said, were do not intend ever to do so. people think that laudation is their a certain proportion of the laity were due whenever they take part in public doing the same. It was an undoubted affairs, and can command a vote be- fact that visual defects had increased hind which to hide away their lack of during the last few years. It was logic and self-seeking. But those who evident to anyone who had given the think so must not extend their way of matter attention that many cases were thinking THE MONTHLY, which will suffer no per- But, be it either one or the other, it sonal aggrandizement to interfere with could be readily understood that an

would-be friend, the patient, unbiassed its eager desire to advance the interests

The death of the Rev. Dr. Cochrane, The of Brantford, brings to a close the act-And this is a lesson terian College work. His end was THE CANADA EDU- Ladies' College, which he was instru-

> There were in the paper lately read Some waking up to their responsibility, and EDUCATIONAL congenital, while others were acquired.

existing defect might be aggravated, to keep up with the class. The first certain conditions. interested was how far the schools cious means. properly fitted with glasses. In San directly in front of the pupils. per cent, and as you went into the to. centage slightly increased. in other schools here had informed him that the same state of affairs existed. The percentage was not so large in and towns.

and a greater defect produced under two could be remedied by the authori The only point, ties, and the evils of the latter might however, in which his audience was be relieved to a great extent by judi-The concensus were responsible for this, and what opinion was that the light should be means might be adopted to lessen the made to fall on the left hand side of Other countries had recognized the pupils, and on one side only; but, this fact—England, Germany, and cer- if light must be admitted from both tain of the States-and they had ap sides, it should not be east and west, pointed expert inspectors, who rega- but rather north and south. The winlarly examined the children's eyes, and dows should be as high as possible. if these were found defective the the nearer the ceiling the better, and parents were compelled to have them by no means should there be a light Francisco 33 per cent of the pupils in means of diagrams Dr. Fields exthe schools had defective eyes; in New plained what is commonly known as York the percentage was about the longsight and shortsight, and he also same; in Ontario, judging from his referred to the means that might be own experience, it was about one-adopted for detecting these defects. quarter per cent., and in Montreal He strongly urged that, when it was Mr. Parsons, of the Victoria school, noticed that a child had any difficulty who had examined the eyes of the in learning, it be not put down to kindergarten children, ranging from stupidity or want of application, withthree to six years of age, had furnished out first ascertaining if there was any him with data showing that those who defect in vision; and, if so, recommend had defective eyesight were one quarter the parent to have the matter attended By so doing teachers would have higher classes it was found that the per- done their duty, and the true responsi-Teachers bility would rest elsewhere.

The report presented by Dr. Harper rural districts as in the larger cities at the Convention of Teachers held The reason was obvious, last month in Montreal indicates the Their conditions were entirely differ- progress that is being made in the ent; they enjoyed more healthy out- matter of improved professional traindoor exercise, and their curriculum of ing in the McGill Normal School, and study was not so heavy as a rule, recommends, first, that two short terms Taking the whole, he thought an aver- be provided for in that institution until age of 30 per cent. was not too high all the teachers employed in the Proan estimate of this defect. As re- testant elementary schools of Quebec garded the causes with which they are trained teachers; second, that a were principally concerned, there were period be fixed upon by the authorities two or three important ones; defective when only trained teachers may be and improperly arranged light, bad employed in such schools; and, third, print used in school books, and an-that every facility, including pecuniary other, which, owing to the extended assistance, be granted to teachers who curriculum could not be altogether have taught for a given period of years prevented, the long-continued study in the province to take a course of and close application required in order training at the Normal School.

coming our foremost investigating heat, this atmospheric nitrogen was body, Professor Cox, of the Science passed over magnesium turnings, heat-Faculty, having led the way in the matter of the X rays, and the limit of their powers in locating foreign matter in things animate and inanimate. Now it showed an entirely new spectrum. it is Dr. Walker, of the Chemistry Department, who has undertaken to make public the properties of argon and the manner in which other constituent gases of the atmosphere have lately been discovered by Professor Ramsay, of Great Britain. The following is to it. taken from a report of a meeting lately held of the Science Society of Students, at which Dr. Walker explained the process of the marvellous discoveries made by Lord Rayleigh and Dr. Walker is now a Prof. Ramsay. member of the Faculty of Science of McGill, having lately been appointed Professor of Chemistry and as a colleague of Sir William Dawson's distinguished son-in-law, Dr. Harrington. "I have two reasons," Dr. Walker is reported as having said, "for choosing my subject for to-night as I have done, firstly, because it follows out the line of an address delivered in Canada a few months ago by Prof. Ramsay, and, secondly, because it is a purely chemical subject, and one of the greatest discoveries since Davy discovered the To properly underalkali metals. stand the subject, it will be necessary to say a few words about the now wellknown substance, argon. Lord Rayleigh prepared nitrogen from the atmosphere, and then from chemical sources. The result showed a slight discrepancy. The nitrogen obtained from the atmosphere was found to be denser than that obtained from chemical sources. Ramsay concluded that the nitrogen of the air must contain some unknown substance. They then set about to separate the nitrogen from this unknown substance. A vast amount of nitroger was prepared from carbon compound, since it resists all

The McGill University is fast be-|combines with magnesium, at red ed to redness, till the gas ceased to contract in volume. The residual gas was found to have a density of 20, and Owing to its great chemical inactivity, the discoverer called it argon. gas had been accidentally prepared by Cavendish eighty years before, but he did not notice that it was different from nitrogen, and paid no attention

> "Shortly afterwards Ramsay discovered the new gaseous elements, hellium and argon, in some rare minerals, and from the position of argon and hellium in the periodic system of the elements, he felt convinced that some other gases of a similar character must exissomewhere in nature. Accordingly these about the examination of all sorts of minerals, mineral waters, and the atmosphere, and finally found it in the argon of the atmosphere. Owing to the inertness of argon, it was useless to try to investigate it by chemical means, so he and his coadjutor, Mr. Travers, adorted the method known as practical distillation."

The latest gas discovered has been named "Neou" and, during the process of its discovery, two other substances were discovered in the residue, namely, metargon and crypton. former has the same density as argon, but it is a white solid at the low temperature of boiling air, and shows an entirely different spectrum. Professor Schuster had pointed out that its spectrum is in many respects similar to what is known to physicists as the "carbon" spectrum, and suggests that metargon is really a carbon compound. But, as Prof. Ramsay and Mr. Travers have shown, if SO, it form be entirely new the atmosphere. As nitrogen readily attempts that have yet been made to

of its specific heats also show that it is of an elementary nature, and not a compound. These latter experiments were nearly all performed within a fortnight, and I must confess it was one of the most exciting fortnights I ever spent. Really four new elements in a fortnight is too great a rate of in-Of the nature and scope of these new elements little has yet been determined, but the discoverers hope to soon be able to give more information on the subject, on which they are still working.

There are two institutions in Montreal which are leaving their impress on the city school system, taking rank as model schools in a community where the idea of inviting the public to examine for themselves the inner and practical organization of the schoolroom has not been very much encouraged. The teacher in training requires a well-organized model school in which to do his practising under careful supervision, but the public also requires a model school in which to learn to distinguish a right method of teaching from a pernicious method, and it is needless to say that every public school should be such a model tection to those who would do right and school, open at all times to the public. Visiting day is an excellent idea, and should be fostered in city and country, even in face of the prejudice that too much may be made of it or too little. But there need be no halting at visiting day in providing for the model it is a wise one and in the public inschool which has its doors always open terest.

oxidize it to carbonic acid. The rate to the public, and the High School of Montreal and Westmount Academy are examples of such model schools. No visitor is admitted to the classrooms of these institutions without permission, it is true, but no citizen ever goes away from a visit to either of them having the feeling that his visiting has been out of place, or that he has, by his presence, interrupted anybody's work. The principals of these institutions are gentlemen of progressive ideas, and through the cooperation of their efficient colleagues are gradually raising their schools to that degree of efficiency which has made the Boston schools the centre of attraction in America.

> correspondent. " Montreal Our Teacher," informs us now and again how educational affairs are prospering in the commercial metropolis, and it would be well if more of our readers would follow his example. The identity of a correspondent cannot but have an interest attached to it, and this interest becomes all the more intense perhaps when the correspondence indulged in has for its object the giving of the information that is a prodo it openly. This identity, however, is a sacred thing in the eyes of the editor, and our correspondents may safely make use of THE EDUCATIONAL Monthly as if it were their own property, when the use they make of

CURRENT EVENTS.

United States of America began talk-Montgomery, who was killed in the entertain such an absurd idea. attempt to take Quebec on the last heartily agree with the following: night of 1775, scarcely any one in The U.E. Loyalists, at their meeting Canada took the matter seriously, at the Normal School yesterday after-

When some of our cousins in the The proposal appeared to Canadians so supremely improper that they never ing about a monument to General imagined that any sane person would

noon, entered a vigorous protest take this matter into your consideraagainst the proposal to erect a statue tion, in order that the necessary steps in Quebec to General Montgomery. The matter was brought before them by Mrs. Forsyth Grant, of the Women's Canadian Historical Society of Tostanding vote, and amid much enthusiasm, passed the following resolution:

Resolved, That whereas an "international monument is proposed to be erected in the public square at Quebec," we do hereby enter a protest against such act being allowed, and do further appoint a committee to confer with the other historical societies in the matter.

The following is the protest: That the said General Richard Montgomery, having served under Major-General Wolfe at the taking of Quebec, on September 13, 1759, did later use the knowledge then obtained, and while serving under the British flag, to lead an invading army into Canada, and parent. fell, assaulting Quebec. Therefore. to permit the erection of an "international monument," or one of any character, to do honor to the invader, would be at once an insult to the memory of the men who defended it and to the feelings of their loyal descendants, and would also in the future confuse the minds of the children as to the duty they owe to their Also, it is without precedent that a people, or a city, or a Government should permit the erection of a remembered that the boy was absent monument within its borders to glorify from school with his father's permisan invader. would further suggest that, if it be de- his note of excuse he was caned—not sired to honor the heroes of that for absence without leave, but because period of our history, the city of Que-his absence brought before the headbec should be enriched with a monu-master's notice the fact that he was ment to Sir Guy Carleton, who defend-idle and neglected his work. ed her, or to the gallant Beaujeu, who was Mr. Gull's case, and the judge raised a force to drive out the invad-summed up in support of it; but the ing army, and whose loyalty and de- jury decided that the boy 'was caned votion remain unrecognized. We, for his absence, and not for his dulltherefore, pray your Government to ness,' and awarded nominal damages.

may be taken to prevent what would be an outrage on the patriotic feelings

of your people.

The reading of the above was folronto, which, at its last meeting, by a lowed by the passing of the following resolution, moved by Mrs. Forsyth Grant, seconded by Mr. Land: That this association do endorse the resolution passed by the Women's Canadian Historical Society with reference to the proposed erection of a monument to Montgomery; that a committee be ordered to draw up a similar protest, and that the secretary be instructed to send a copy of it to the other U. E. Loyalists' Associations in Canada, and request similar action.

> A curious case has occurred in England in which a schoolmaster was taken into court by an irate parent over the absence from school of an idle boy with an excuse from the There is not a teacher in the land who has not had dealings with the school-room specimen. The boy was punished for his conduct in face of the excuse, and this is the report of the case as given in the Journal of Education:

"The Sheldon v. Gull case has received a fresh development since we commented on it two months ago. As the magistrate had refused to grant a summons, Mr. Gull was sued in the county court for damages It will be And your petitioners sion. When he returned and presented The case is of interest to school-masters, and it may seem monstrous to them that a jury should be asked to decide the grounds on which the punishment is given. A parent may punish his child 'reasonably,' and his power is admitted to be handed over to the schoolmaster. But, if the child breaks a school rule under his parent's orders, the only admissible penalty seems to be dismissal. We must add that the punishment was not stated to be excessive."

The popularity-prize craze has assumed a new form. This time it is not the most popular policeman or electric car conductor or clergyman or school teacher that is wanted, but the most popular school-boy, and it is a member of parliament of an English county and a mayor of an English city that is after him. These gentlemen have been distributing watches and watch-chains throughout their constituencies to the most popular boys whom their discerning neighbors may select, and the editor of the Journal of Education is rightly up in arms against the practice: A boy should grow up, as he says, gentle, kind, and helpful to his schoolfellows; but, when we think of the burden that is put upon the half dozen boys who are in the running for the prize, when we realize the development of their self-consciousness and the temptations to hypocrisy, we can only hope that our headmasters will be strong enough to refuse absolutely and entirely the offer of such prizes.

Like the Hon. Dr. Ross, when he compared the convention of Montreal Teachers to the Legislature at the moment preceding a division, Mr. Maughan lately said, in an address delivered at a dinner given to Sir Langdon Boynthon by the Adelaide Teachers' Association:

"As a whole the teachers were not of political tendencies, partly because they were too much taken up with little parliaments of their own, where the Government had long tenures of office, and where the Opposition had no chance of moving a successful want of confidence motion. (Laughter.) But they were no less patriotic for that, and they were proud of their Parliament for the position it had taken in passing Liberal legislation, and for the dignity and intelligence with which its deliberations were conducted."

The people of England are growing anxious over the technical school question, and have been sending deputations to Germany and also to America to note the various aspects of the technical school 'here. Mr. Reynolds, the deputy sent to America, has been to McGill and Toronto, and others of the large cities of the continent, and from what he says it is America, rather than Germany, which will successfully compete with this country for supremacy in the engineering industry. Reynolds shows that in the United States and Canada the training given in technical schools is held in the highest esteem by employers. "In visiting various important works, it was gratifying to observe the esteem in which the engineering colleges are held by the best class of employers. Many of their most important officials come from these colleges, and preference, other qualifications being fulfilled, is given to such technically trained candi-In short, it would appear that the exact investigations carried on in the great laboratories of the chief engineering colleges, and the importance of the results derived therefrom, have led to a recognition of their value and necessity in the workshop itself, with the result that those who have been trained in them are receiving corresponding appreciation."

In the course of his address on the "Child-Mind." Dr. Murray claimed. according to The Herald report, that education was after all the education of the will, which was dependent on the intelligence and feeling with which Will divorced from it was associated. these was merely blind, unfeeling force, exhibited in the harshness of nature of many men. The highest education was closely connected with the highest emotion, religious feeling, and therefore he felt deep sympathy with those who sought for religious instruction in schools. In dealing with difficulties with which teachers had to cope. Dr. Murray pointed out that they had to begin with directing muscular action The tendency of into right channels. nervous and muscular vibrations was to widely diffuse themselves, as shown, for example, in the lolling tongue with which many children followed the movements of their pen. Hence more energy was used up than was required. and the teacher had to try to prevent The direction of the will depended on the feelings of pain or pleasure, and the teacher who could arouse that attraction in study known as interest had attained a great deal. The emotional feeling varied in differsentimentalism. The teacher had to was weak and repress it where it was strong. This led to the question: What form of educational discipline Portion of the circular is as follows: best developed the will? Many edu posing that there was a royal road to The idea that anything worth learning could be learned without dogged, continual endeavor was a delusion and a snare. If learning could be obtained without labor it school system and its working. would be valueless, because it would fail to develop the intellectual and quest the aid of all educational estab

one which would develop the habit of voluntary action, of instantly saying yes or no when duty prompted or wrong tempted. The training of sustained attention was important, and of accurate observation and reasoning. What did present educational systems supply in the way of this necessary discipline? It must be said that these systems gave far too exclusive prominence to the development of the intelligence, to the attainment of mere knowledge; that there was almost no specific discipline adopted for the purpose of training will power, at least the disciplines with that object in view were not so numerous and prominent in educational systems as those which aimed at giving knowledge and training the intellectual powers. Public schools offered a valuable discipline in the training of punctuality, which should also be enforced at home; and the schooling of oneself to like a duty should not be overlooked. The wreck of lives was nearly always due to the failure to early develop the will, the victims of tragedies being unable to say "no" or to say "yes" at the right moment.

The Hon. Boucher de la Bruere, ent persons from stoicism to mere Superintendent of Public Instruction, has just issued a circular, addressed to develop the emotional nature where it heads of universities, colleges, normal schools, high schools, academies and other higher educational institutions.

"I have the honor to announce to cationists fell into the error of sup- you that the Province of Ouebec will take part in the Paris Universal Exhibition of 1900, and the Government desires that the Department of Education should adopt measures suitable for instructing the world as to our

" I believe it my duty. then, to reemotional energies, the energies of the lishments. We are only one school will which formed the great aim of year from the time at which exhibits The discipline needed was must be forwarded. I have no doubt importance of appearing with advantage in this universal competition, and of making known the working of our school law and the results achieved by our educational institutions.

"I have only to recall the great exhibitions of Paris, London and Chicago to be satisfied that by combined effort we may in 1000 prove ourselves worthy of the flattering marks already bestowed upon 's, and win new encouragement to promote the progress

of instruction among us.

"The higher educational establishments, I think, should review their history, state how their teaching staff is made up, and give the number of pupils attending. They will also mention their branch establishments, even those outside the province. Photographs of the buildings, interior and exterior, might be included among the exhibits.

"I need not remark that it is important to have our works judged in their ensen ble. Our higher educational houses will collect specimens illustrating the excellence of their courses of study, such as philosophic dissertations, scientific compositions, Greek and Latin theses, literary productions, etc.

"I shall ask the convents and other girls' schools to furnish specimens of pupils' needle-work, embroidery, etc."

The death of Dr. William Kingsford, the historian of Canada, brings pause to a life-work which coming generations of Canadians may study with more keenness than the Canadians of to-day. His ten volumes of Canadian history form a crowning glory to a long career of usefulness in other spheres of labor than the literary, been present in his work. of living a long life without leaving a account of Dr. Kingsford's career,

of your cordial support in assuring the footprint behind as a permanent memsuccess of this exhibit, in view of the orial was always an injury to the man or woman who had within them the throbbing of genius. The faithful worker in behalf of posterity must feel at times the same agony, and it is pleasant to think that Dr. Kingsford, whose literary industry and faithfulness have long been recognized, had for years the satisfaction that his work would live after him. To the teacher Dr. Kingsford has been a true friend—to the teacher of the present and the past -and it may help us to appreciate his industry all the more, to read of his earlier career as an unobtrusive citizen, laboring for his bread and butter, when public recognition had not yet come to him. It is a long and weary road to the goal cf ame, and even yet Dr. Kingsford's work has escaped the attention of Canadian readers in the hurry and bustle of our modern ways of looking at literary talent. Kingsford's History is an example of how little of the pecuniary reward there is in the task of the Canadian literary man. It was not without difficulty that a publisher could be found to take hold of his great work, and the number of subscribers, even after full recognition has been given by the critics to the excellence of his volumes, is phenomenally small. When will Canada turn the corner in this matter of literary appreciation of her sons' and daughters' literary gifts? Britain was once called a nation of shopkeepers, but Canada may well be called a nation of newspaper readers, and publishers and authors may write as they may about copyright and the legislative evils that lie in the way of a Canadian author earning an honest livelihood through the efforts of his pen, but as long as the present literary apathy of the people prevails, the auththough the literary spirit must have or will have to look for "ways and George means" in a direction away from the Eliot used to say that the possibility publishers' till. The following is an

which may be found in fuller form in |Trunk Railway. any of the volumes of biographies late-

ly published:

William Kingsford, C.E., LL.D., was born in Londe..., England, December, 1819. He was educated in his native place and came to Canada with the 1st Dragoon Guards. tiring from the service in 1841 he entered the employ of the city surveyor, Montreal, and was connected with that department for some years. At this period of his life he went to the United States wher, he assisted in the construction of the Hudson River Railwhere ne was engaged in laying the line of the Panama Railway. ing to Canada he was employed to make surveys on various parts of the Grand Trunk line, after which he held engineer of the city of Toronto, and low of the Royal Society of Canada. again entered the emple of the Grand

After a period of six years spent in Europe, during which time his professional services were largely in demand, he returned to Canada and was again employed by the Canadian Government. In 1880 he entered the services of the Canadian Pacific kailway, and was connected with this company for some time. Possessed of strong literary ability he has written much on historical subjects, and is the author of an extensive "History of Canada," from the time of its early settlement up till 1841, the date of the union of Upper and Lower Canada. way and went subsequently to Panama, Among his other works are "The Canadian Canals, their History and Retur - Cost"; "The Earliest Bibliography of Canada"; and "Impressions of the West and South." He received the degree of LL.D. from Queen's and for a short time the position of chief Dalhousie Universities, and was a Fel-

MAGAZINE AND BOOK REVIEWS.

appeared in the Atlantic Monthly. Of almost futile life. late years distinguished people have contributed the story of their own lives, and of these few could be more interesting than The Autobiography of a Revolutionist, by Prince Kropotkin. It has also been announced that Mrs. Julia Ward Howe's Reminiscences will be in the November number. Prof. William James, of Harvard, will shortly contribute a series of six papers dealing with the relation of Psychology to the Art and Practice of Teaching.

The October Book Buyer contains, along with other interesting matter, "Some Recollections of Aubi ייר Beardsley," by Penrhyn Stanlaws. very few people who ever saw Beards-

Many biographies in the past have singular artist's short and apparently

With a certain amount of gratitude one finds the October Century almost free from the late war. Chester Bailey Fernald, it is true, contributes a tale of war correspondents, entitled "The Yellow Burgee," which might be supposed to have wrecked his future if war correspondents are as powerful ac they appear to be in the United States: but the Oxford and Cambridge race is as far from the tendency of conflict as possible. Prof. Wheeler, of Cornell is to begin a life of Alexander the Great in the November issue.

Littell's Living Age for October 15th contains a most interesting review of Helbeck of Bannisdale, from a Mr. Stanlaws appears to be one of the Catholic standpoint, taken from the Nineteenth Century. It surely will be ley at work. There is much that is a matter of regret to many of the pathetic in the recollection of that readers of this weekly that the page of poetry where, in the past, so many exdiscontinued.

The Ladies' Home Journal for November contains the opening chapters | Company through of Mary E. Wilkins' new serial, "The agents, The Copp, Clark Company: Jamesons in the Country." "The Giris of Camp Arcady" is the name by C. Calbeck; "Exercises on the of another continued story which deals with the adventures of four girls who earn their living and share a Lt in New York. A Polish Fantasy gives an account of the early life of Paderewski.

The Copp. Clark Company has recently issued an attractive edition of "John Splendid," a stirring tale of the highlands of Scotland, by Neil Munro. This story, which last year ran as a serial in Blackwood's Magazine, is a romantic and wholesome piece of It belongs to the same literature. class as Mr. Maclennan's "Spanish John," and appeals particularly to those who belong to a Celtic deriva-From the same firm we have this month received: "Stories of the Maple Land; Tales of the Early Days of Canada, for Children," by Katherine A. Young. "The Primary Public School Arithmetic," by J. A. McLellan, A.M., and A. F. Ames, A.B. And "High School Cadet Drill Manual," arranged by W. Bennett Munro. "Poet's Walk; an Introduction to Poetry," chosen and English arranged by Mowbray Morris; Macmillan & Co., London. This volume s issued in the Golden Treasury series, and merits a place beside the excellent and long-known "Golden Treasury of Songs and Lyrics." There metic," by Wilson Taylor. are a number of selections which do not appear in the songs and lyrics, Cincinnati: notably those from Sir Francis Hastngs Doyle, whose "Return of the Tales," by E. L. MacNaughton.

Guards," July 9th, 1856, might well cellent things were reprinted, has been have been written for to-day, and compels enthusiasm.

> Books received from Macmillan & their Toronto

"Cæsar's Gallic War, VI," edited First Book of Euclid," by William Weeks; "The First Oration of Cicero Against Caulina," edited by G. H. Hall; "Historical English and Derivation," by I. C. Nesfield.

Books received from the University

Press, Cambridge:

"The Æneid of Virgil, Book I.," edited by A. Sidgwick; "Cicero in Catilinam," edited by J. H. Flather; "John Bunyan by Macaulay," edited by Arthur D. Innes; "Milton's Comus and Lycidas," edited by A. W. Verity; "Gray's Ode on the Spring and The Bard," e lited by W. C. Tooey.

Books received from Ginn & Co.

Boston:

"The Elements of Physics," by A. P. Gage; "Essentials of Psychology." by C. S. Buell; "Goetne's Egmont," edited by Max Winkler; Alcestis of Euripides," edited by H. W. Hayley; "Seed-Travellers," by C. M. Weed.

Books received from The American

Book Company, New York:

"Selections from the works of Richter," edited by G. S. Collins; "Elements of Grammar and Composition," by E. O. Lyte; "Elementary English," by E. O. Lyte.

William Briggs, Toronto:

"An Elementary Treatise on Arith-

The Editor Publishing Company,

"Meadowhurst Children and Other

æ,

ALGEBRA. FORM III., 1898.

C. P. MUCKLE, B.A.

1. (a)
$$\frac{z}{\frac{1}{x} - \frac{1}{y}} + \frac{y}{1 - \frac{y}{x}} - \frac{x}{1 - \frac{x}{y}} = \frac{x \cdot z}{y - x} + \frac{xy}{x - y} - \frac{xy}{y - x}$$

$$= \frac{x \cdot z}{y - x} - \frac{2xy}{y - x} = \frac{xy(z - z)}{y - x} \text{ or } \frac{xy(z - z)}{x - y}.$$

(b)
$$\frac{1}{1-x} + \frac{1}{1+x} + \frac{2}{1+x^2} + \frac{4}{1+x^4} = \frac{2}{1-x^2} + \frac{2}{1+x^2} + \frac{4}{1+x^4}$$
$$= \frac{4}{1-x^4} + \frac{4}{1+x^4} = \frac{8}{(1-x^4)(1+x^4)} = \frac{8}{(1-x^8)}.$$

2. Since
$$x^2 = x - 1$$
, $x^2 - x + 1 = 0$; $\therefore x^3 + 1 = 0$, being $= to(x + 1)(x^2 - x + 1)$.
Now, $x^6 - 3x^5 + 2x^4 - x^3 - 3x^2 + 2x - 2 = x^6 - 1 - 3x^5 - 3x^2 + 2x^4 + 2x - x^3 - 1$
 $= (x^3 - 1)(x^3 + 1) - 3x^2(x^3 + 1) + 2x(x^3 + 1) - (x^3 + 1) = 0$.

Or, substituting $x^6 = (x^2)^3 = x - 1^3$, etc., reduce the expression.

3. (a)
$$(a^2+b^2-c^2)^2-4(ab)^2=(a^2+b^2-c^2+2ab)(a^2+b^2-c^2-2ab)$$

 $=(a+b+c)(a+b-c)(a-b+c)(a-b-c).$
 (b) $x^5+x^3-x^2-1=x^3(x^2+1)-(x^2+1)=(x^2+1)(x^3-1)$
 $=(x+\sqrt{-1})(x-\sqrt{-1})(x-1)(x^2+x+1)$
 $=(x+\sqrt{-1})(x-\sqrt{-1})(x-1)\left(x+\frac{1-\sqrt{-3}}{2}\right)\left(x+\frac{1+\sqrt{-3}}{2}\right)$
 $(c) 2x^2-y^2-2z^2+3yz-xy=(2x+y-z)(x-y+2z).$

- 4. $i^3 = i$, $i^2 = -i$; $i^5 = i$, $i^4 = +i$, etc. $(1+i)(1+i^3)$... to n factors = (1+i)(1-i)(1+i)(1-i)... to n factors = (1+i)(1-i)(1-i)(1-i)...
- 5. Assuming that $(+a) \times (+b)$ is +ab, or +a taken b times additively, then $(-a) \times (+b)$ must be equal (-a) taken b times additively $= (-a) + (-a) + (-a) \dots$ to b terms = b(-a) = -ab

And $(-a) \times (-b)$ must be (-a) taken b times subtractively or -(-a) - (-a). to b terms, or -(-ab) = +ab.

6. (a) and (b) Book-work.

7. Let
$$7x = A$$
's money, $8x = B$'s money.
$$\frac{7x + 18}{8x + 18} = \frac{17}{19}$$

$$x (7.19 - 8.17) = 18.17 - 19.18 = 18(17 - 19) = -36$$

$$-3x = -36, x = 12; 7x = 84 = A$$
's money, $8x = 96 = B$'s money.

ASTRONOMICAL NOTES.

The discovery of a new member of the asteroid group is becoming quite a common occurrence, but the last announcement of the kind calls attention, rather to a new planet than simply to another of the bodies revolving in the zone between Mars and Jupiter. institution known as the Urania, of Berlin, has the honor this time, and Herr Witt the special credit of having first observed the stranger. He allowed a whole month to pass before making his discovery public, for the reason that the observations, upon analysis, gave an orbit which seemed unlikely to be the correct one; it appeared to lie actually within the orbit of Mars, though not wholly. In terms of the astronomical unit, the earth's mean distance, the stranger when at perihelion is 1.13 from the sun, and at i aphelion is 1.79. The latter is farther away than the aphelion of Mars' orbit. This discovery will be of immense! value to the mathematical astronomer. when the path of the new planet is accurately marked out, and will lead to closer determination of the sun's mean distance than has hitherto been thought possible.

Mars is now in good position for observation, rising about 10 o'clock, and a conspicuous object among the The disc of the stars of Cancer. planet towards the end of November is 12 seconds in diameter; this is larger than Mercury ever appears to us, and when it is remembered that drawings of Mercury have been made on many occasions we are prepared to hear that Mars has already, this season, become a subject for the artist at the telescope. We do not possess any photographs of the surface of Mars which could be said to aid us in the study of the planet. This field is open indeed to all.

Jupiter having now passed to the west of the sun, is morning star, and towards the end of the month is far enough out of the sun's rays to permit of the satellites being observed. Saturn is now too close to the sun for

observation. Venus also is rapidly approaching the sun, crossing the direct line on November 29th, about 7 degrees south. On this occasion Venus crosses the meridian twice within the same astronomical day. Mercury reaches the greatest elongation east of the sun on December 3rd, but, being far south in declination, will not be favorably placed for observation.

Observers of the stellar heavens will note that we now have the Pleiades group culminating on the meridian about midnight, and it is not to be forgotten that the feast of "All Souls," our now almost prosaic Hallowe'en, is associated with this phenomenon. It is a long step from matter-of-fact gala times of the present day to ancient Yet the connection is there. festivals. and as there appears to be no race without some tradition in connection with the Pleiades, it is open for explanation why this is so. fanciful idea is that the "lost Atlantis" was submerged when the Pleiadas culminated at midnight, and hence the group would always mark the date of the anniversary.

Observers of the moon may note that on the evening of November 28th there will be an opportunity to observe most satisfactorily the great ring plains on the west limb. About a day past the full the lunar plain Petavius presents a beautiful appearance, the convex floor lit up by the sun, while the western wall is partly broken It is a beautiful object for the pencil at the telescope. Thos. Lindsay.

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