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## On Edacational Training.

AV ESSAY, MY NEIL AhNOTH, N. D.. F. If. S., f. i: S., J:Tc.

## PARTI.

1. In comparing man with the inferior races of amimals it is seen that his great superiority to all is due not to his bodily strength or the acuteness of particular senses, for in these respects he is surpassed by manr, but to his mind, with its great power of gradually acquiring knowledge of the universe around him, and of contriving arts to subject events to his will. His knowledge becomes power, and a man of cultivated understanding 's as far superior to an uncultivated man as the latter is to a brute.
2. A most striking point of difference is that man can form and use language, whilst brutes cannot. A brute can know only what its individual experience may teach it concerning the one spot of earth on which it resides, and the one small portion of time during which it lives; but any man, through language, may learn what other men have known or done. And after the inventions of writing and printing, which made language visible and permanent, a numerous society, or indeed the wholn human race, may be regarded as
has lived before, or which will appear afler it. How different is the story of man; he is born inte the world the most helpless of livinj beings, and changes so slowly that, it descrted carly by his parents, he surely dies; if, even after two or three years of care, he be abandoned entirely to himself, as to a few individuals has happened who yet had survived for a lime in woods, he grows up in some respects inferior to the nobler brutes. Then history recounts of remote times, that over large portions of the earth men lived in condition little superior to that of brutes, as they may still be seen in Australia and elsewhere. Their condition is described as that of houscless savages, ill able to defend themselves against the wild beasts which shared the woods with them, and the inclemency of the weather, and the consequences of want and fatigue, and as being to one another often more dangerous than auy wild beasts, unceasingly at war among themselves, and destroying one another with every species of even cannital cruelty; and many countries formerly in such miscrable state, have gradually become, through increase of human knowledge, fertite regions, with their noble cities, inhabited by myriads of civilized men.
3. Schools, colleges, universities and books are among the means which, in the progress of human improvement, have been contrived for thus cultivating the minds of individuals and of nations; and in regard to all of these there have been a progress of improvement as marked as in other things which have proceeded from the working of man's intellect. The decision, however, as to the subjects chosen, the order of study: and other particulars, had to be based on a due consideration of the whole field of human knowledge with its natural divisions, and the bearings of these on human welfare; and the riews taken, until lately, were far from lecing complete. A simple arrangement, addressed to common apprehension, is here sketched

TIIE ORIGIN, PROGRESS, AND SCIENTIFIC ARRANGEMENT OF HUM.及 KNOWVLEDGE.
6. The haman race is permanent; but the individuals composing it are in a course of constant change and renewal, at the rate of about a thirtieth part anmually. The children, however, in receiving the bodily constitution of their parents, do not receive therewith the smallest portion of the knowledge which the parents nossessed, but have to gather for themselves after birth through the five organs of the senses, which have been called, therefore, "the fives gates of knowledge" and internal consciousness, the whole material of their own future store. Thus, when a child gets an orange for the first time, he receives impressions-first through the shin of the touching hand, of its size, form, weight, etc.; through the eye, of its color; through the palate; of its taste; through the nostrils, of its smell; and through the ear he may hear the sound or name which men have connected with it. The impression heing retained in the memory as a group, constitute his knowledge of the orange. In the same manner the knowledge of other objects is obtained.
7. If, as a burning lamp is constantly supplied with oil to licep it alight, human beings, after birth, be duly supplied with the four prime essentials to life, they may live healthily for about seventy years, passing through the stases of youth, matu-ity and decay to death. These essentials are pure air, warmth, aliment, and rest, atter work. If deprived of the first, the individual dies in a few minules, as by drowning or other suffocation; if the second, he dies in a few hours, as when over.
whelmed in a snow stom; if of the third, he dies in a fow days, or weeks, or months, according to the circumstances. The first indication of the child liaving mimal sensibility is its struggle and crying when if wants a necessary, as food or warmth. It has then the feeling which it afterwards learns to call pain; when the want is supplied it becomes tranquil, and it has the fecling which it learns to call pleasure. In after-life, to obtain pleasure and to avoid pain, near or remote, become the great motive to voluntary activity. Among the objects around the child, it soon begins to distinguish those which most nearly concern it, by causing pleasure or pain; and thus the mother or inurse, the fire, the candle, become carly acquaintances.
8. As the growing individual afterwards has the attention directed to the apparent infinity of objects in the universe around, the mind soon makes the grand discovery that there are resemblances among them-in other words, that the apparent infinite is only a repetition of a certain number of kinds. There are soon dis. tinguished, for instance, what in the English language are called dog, horse, sheep, etc., among the things living and moving, called animats; the rose, myrtle. oak, etc., anopg things growing from the earth, called vegetables; and such as lime, tlint, gold, etc:, among things taken out of the earth, called minerals; and the mind, becoming aware that by studying a specimen or exemplar of each kind, its limited power of menor: may acquire a tolerably correct hnowledge of the Whole chabling persons to obtain more easily what is useful to them, and to avoid what is hurtful; the desire for that knowledge, called curiosity, would arise with the flrst exercise of reason. Aceordingly the pursuit of it has been unremitting, and the labor of ares has at least nearly completed am arrangement of the constitucut materials of the universi under the three great classes of

> Animals.
> Vegetables,
> Mincrals (including all other :hings not having llfe).
commonly called the three kingloms of atinre, and of Which the minute description has been called Natural Ifistory. And museums of Nalural History have been formed which contain a specimen of almost every object belonging to the classes; so that now, a student, within the limits of a moderate space or garden, mas be said to be able to have under view the whole of the materinl universe.
9. It might be thought that if a man knew all the things or existences in the world he had nothing more to learn. But it is not so for the things of today do not remain the same for tomorrow. A seed is growing to be a plant, a boy to be a man, momntains are being wasted by the action of the weather, lakes are being filled up by the solids which the feeding streams carrs into them, the tides and rivers and clouds are always moving. The universe, therefore, is a scene of constant motion or clange. With respect to the changes, how. ever, as with respect to the things themselves, the second grand discovery would soon be made, that there were resemblances in the multitude; and self-interest operating in the second case as in the first, having prompted to careful classification, we are enabled in the present day, as the result of comatless observations and eiperi ments made through a series of ages, to say that all the motions or changes, or phenomena (word synonymons herel of the universe, are merely repetitions of minture of a few simple mamers or kinds of motion or change, which are as constant and regular in every case as when bringing the returus of dar and night and of the
seasons. All these phenomena are found to be of four very distinguishable kinds or classes which have been called

> Vhysical or Alochanical,
> Cliomical,
> Vital or Riological, and
> Alantal or Estchological.

The simple phrases which describe the resemblances among them are called Geneval Truths, or Laws of Nature, and as a body of knowledge, they constitute what is called Science or Philosophy in contradiction to Natural History, already described. Now, as man cannot, independently of a supernatural revelation, learn anything but what respects cither the momentary states, past or present, of himself and the objects aroind him, or the manner in which the states have changed. Natural History and Science, in the senses now explained, make up the sum of his knowledge of nature.
10. As au example of a general truth, or law of nalure we may take the physical law of gravitation or attraction, which dechares that every particle of matter in the universe attracts and is attracted by every particle With a rertain lorce varying in a certain mamer with the distance.
1st. It may be observed that bodies in general, if raised from the carth and left unsupported, fall towards it with force called their weight. It has lo:g bren thonght that fame smoke, and certain rapors which, when free ascend in the air, had positive levity as a property, the contrare of weight; but, after a time, it was discovered that these things were also substances having weight, but were immersed in an unseen atmospherie air which was heavier than chey, and which, therefore, lifted them up as water lifis cork or oil, Thus a rescmblance was detected where a differencr had long been believed to evist. 2d. It is found that :any contignous, hanging bodies are drawn towards each wher so as not to hang guite perpendicular, and that a plummet suspended near a hill is drawn towards the hill with force less than that with which it is drawn towards the earth. but in exact accordance with what should follow from the diferent sizes of the hill and tarth, aud the difference of distance of the plummet from the respective centres of the two. It is thus proved that weight itself is only an instance of a mntual attraction operating among all the constituent clemeuts of the globe, and which explains, moreover, the fact of the rotundity of the globe, all the par's being drawn to at common centre, as also the form of dew-drops, raindrops, globules of mercury and of sany- other such things. ?d, It is observed that all the heavenly bodies are round, as if formed of material obeying the same law. And, lastly, that these bodies, however distant, attract earh other, for the tides of our ocean rise in obedience to the attraction of the moon, and become high or spring-tides when the moon and sun operate in the same direction. Thus the sublime truth has hecome evident, of which the sufficient proofs werefirst detected and arranged by the genius of the immortal Newton, that there is a power of attraction, called weight while acting on parth, and there maintaining a stable order among things generally, but which connects together also the distant bodies of this solar system, and probably as limited only by the bounds of the universe.
11. The process of comparing the facts or phenomena learned by observation and experiment, so as to extract frum thein the general circumstances in which they resemble, is called the method of reasoning by induction, because numerous single facts are brought together fop examination and comparison; and the expressiou for such circums!ances discovered with respect to them ahl,
is terined the truth, or scientific principle under whech they are to be classed. Lord Bacon very clearly deg. cribed the process. Progress in this kind of knowledg. has been slow, owing to the great complexity of mans. ordinary phanomena, arising from several laws actinis together and with great variety of combination. All the reasonings proceed on the assumption, early sus. gested, and afterwards conflimed by universai erpe rience, that the course of nature remains uniform, and that what has happened once under given circumstiane". The knowledge of these so-called laws enables at instructed man, when he witnesses some facts forming: part of a known series, to announce what the state of things will be at any future time, and what it must have been in times past. Thus, by understanding the movements of the heavenly bodies, he foretells thens positious at any future time so accuately that he pub. lishes in the almanars, withon! fear of errors. has prediction of the rers moment of any coming eclipse. Even the wind and the rain, which in common speech are referred to as tepes of uncertainty and change. obey laws as fived as those of the sun and moon; and already as regards many pirts of the earth, man can forctell them with certainty : he plans his voyages to suit the coming monsoons, and he prepares against the floods of the miny spasons. He can similarly judee of other future exent- helougitg to the other drpariments of nature.
12. The phamomena or changes of nature when tha: wiewed ly the human mind, according to their res. semblances, fall as naturally into the four scientific classes named aboved as the things of nature fall into the classes of matural history : and il will not further appear that the mind, to aciuire complete acquantance. with phenomena, must study the classes in a certaill order. which is that both of their mutual dependence and of their simplicity in relation to man's power of apprehension.
13. (2.) Physics (called also Natural o: Hechanical Philosophy'. The numerous changes among things which would first attract common notice and become objects of study, are those in which motions very evident to the senisis orcur. Such are the motions of all bodies falling direclly or volling down slopes ; of currents of wate: and ait, and of hodies carried by such currents; of hodies thrown or projected by any force; of machines. as water-mills, wind-mills; of carriages on railways; of the heavently bodies, and so forth. All these are called physical or mechanical motions. Now, all these are explained by a very few general expressions or laws called since Newton's time, the laws of motion, and which are fully elucidated under the four words, atom or matcrial, particle, altraction, repulsion, and incria. It gives a striking idea of the nature and value of me thodinal science, to be told that a person who understands aright these words-viz: how the imperishable particles of matter, by mutual attraction. approach and. cling together to form masses which are solid, liquid. or aereform, according to the quantity or strength of the repultion, of heal remaining among them, owing to their vis inertiz acquire and lose motion in exact proportion to the force of attrartion or repulsion acting on them-understands a great proportion of the phenomena of nature; but such is the fact. Solir bodies existing in conformity with these truths exhibit all the phenomena of mechanics; liquids exhibit those ol hydrostatics and hydraulics; airs, those of pneumatics, and so forth.
liz. (2.) Chemistry-Another set of changes or phenomena. more tranquil in their nature, soon attract atten. tion, such as the rusting of iron exposed to the weather,
the vanishing of charcoal placed in a fire-grate and heated to redness, the change of grape-juice into wine, and of wine into vinegar, elc.; and alhough in all of these there is a motion of ultimate particles assuming new artangements, the human eyo, not being able to see the particles, does not detect the motion, but in the results. Ilad there been only one kind of substance or matter in the universe, the laws of physics would have explained all the phenomena; but there are iron, sulphur, charcoal, and about firty others, which, when taken singly, obey the laws of physics; but when brought together under certain circumstances, enter into combinations according to peculiar afinities. The immumerable phenomena of this class are now arranged under a small number of general laws of affinity, and the study hats become proportionately simple. It is to le remaiked, however, that during the changes the substances ade not withdrawn from the influence of the physical laws, for no substance ever loses its weight or inertia. What are called chemieal states and motions are therefore only modifications of physical states and motions, and many chemical changes are merely beginnings of physical change, as when the altered chemical arrangement of particles in ignited gunpowder produces the physical explosion. And nearly all the manipulations of chemistry, as weighing, measuring, transferring gases from vessel to ressel are directed by physics alone. Chemistry, then, camot he to any considerable extent understood or practiced by a person who is ignorant of plysics.
15. (3.) Life, or Biology or Physiology. The only changes or phenomena not comprised in the two classes of physics and chemistry, are some of those occuring in fiving bodies, and which, being the most complicated of all, have been the last to be studied and mothodized; and much has yet to be learned respecting them. Such phienomena are growth, mutrition, decay, death, nervous action, etc. These occur in the midst of structures subsisting and acting in accordance with the laws of physics and chemistry, and laws of life, therefore, appear influencing the other two sets, and camot be studied independently of them. The science of life, or physiology, has the two divisious of animal and vegetable phisiology.
16. ('i.) Mind. There remains still to be considered one class of phenomena or changes in nature which are cognizable to man, not by hisactual organs of sense, but by his own consciousness or internal perception, and by his observation of the actions of other persons in difierent inental states-namely, the changing states of human mind. These, also, are found to proceed in atcordance with laws. But it is to be remarked that the laws of mind, which man can discover, are laws connected with body, too, and iniluenced by bodily conditions, for how differently is the same mind manifested in youth and age, in health and discase! Mental science is by far the most importan' department of science, and it stands cminently distinct from all the others on several accounts. Unlike that of organic or bodily life, which could not be fundamentally underslood until physics and chemistry had been previously investigated, this made extraordinary advances in some departments at a very carly age, when the others, as methodized sciences had searcely begion to exist. In proof, we may refer to the admirable writings of the Greek philosophers on logic, morals, government, etc.
17. The established order or laws of change in regard to sequences of mental states are well exemplified in the processes of giving names to objects, and of counting and measuring them. A single object, an orange for instance (as already described at Article 7, if placed
near a person, by acting on the different organs of sense and through the connecting nerves on the brain, causes in the mind a different sensation for cach sense. The tonch of the land gives the impression of size and shape, the sight gives that of color, the nose of fra grance, the palate of taste. These different impressions, called simple ideas, being made nearly at the same time, become associated or grouped logether, and form the complex iden of the frtait, which remains afterwards permanently in the memory, and is reproducable at any future time by any other idea which has accidentally or purposely been associated with it, as of the person who broughtit, or of the sound or word orange name. Any variety of simple ideas or of complex objects or motions produeing complex ideas may be so observed, classed, and mamed. Then, further, it is fomud, that when any new object is met with resembling one already known, it suggests or recalls to the person that known one; and the idea yanging itself with others similar, previously known, joins a class formed in the mind, which class also may get a name. And thus langunge grows.-N.- Y. Journal of Eilucation.

## To be conlinucel.

## How to terch Chilidrtin.

## M A. MEnGMANi.

The teaching of the first grade has been for some time the object of my study, because I look upon it as the foundation of all our work.
In every-day life we meet with comparatively few people who can not read, and, if reading were the sole criterion of intelligence, we might mhesitatingly call this decade a very inteligent one; yet, if we examine critically the language many use to express their thoughts, or consider how they understand the ideas of others, presented to them orally or in print, in it word, how they speak and reason, we shall find ourselves under th . necessity of confessing that our generation is rather behind in that heautiful and pointed laconic mode of expression, in which the Spartans of three thousand years ago excelled.
The art of reading is certainly a key by means of Which we may unlock, if so inclined, the great yaults, in which ages have denosited the result of their learning and wiscoon, and without any assistance but: thirst for knowledge we may attain to the position of : luminary in the galaxy of the learned.

But does the art of reading also instiil unconditionally a thirst for lnowledge? If so, why do the majority of our school children, who are taught it, from the yery first day of their school life, entertain rather a dislike than a love for their hooks? And this is a fact which every teacher experiences, if she lois her pupils decide for themselves whether they will mather read a beautiful story or have the teacher yelate it to them. In nine cases out of ten they will manimously decide for the latter.
If this he admitted to be true, the very important question presents itself: Can the school be expected to conquer such dislike, and how may it be done?
I am free to answer the first pari of the question in the affirmative and shall also endeavor to show how it miay be done; but first let me call your attention to the phenomenon which has donbtless rome under the observation of most of us.

Let us take a boy of eight coming to school for the first time, perfectly illiterate, hut possessed of common
sense, who is pul into your lowest class, i. c.. : mnong children of six. Do voil not alwars find lhat surl it child will learn to read remarkably fast and nol only be, 10 a very short time, equal to the best of his rlass, but even catch un with children of his age, who have spent two years it school, when our bor enters it? and in most cases this boy will be fomb superior in olserration and understanding and in expressing his own thoughts.

Very few teaciners, if any, will deny the above illus tation to be one of every day occurence.
The catuse ot this cannot well be looked for in the advanced age of the boy, nor in his bodily development, for the very reason that sehool childien of six crow older and develop also; it cannol be satid that the boy has intelligent parents, relations, de., for such is the case with six year-old school children 100 , and besides the intelligence of the teacher is often superior to that of many parents. It is then the child's absence from school which has worked so much in his faror? Not necessarily so. But it is certainly the development of thought and sa ech, which the boy has experienced during the two years which others have spent at se hool spelling aud reading.

The little six-rear-old has no correct idea of the sub). ject of which his lesson in the primer treats, while the boy of cight, just entering sehool, knows at once that the sentence," It is an ox," refers to a lithe picture opposite, representing an ox: He linows probably something about it, and a whole chain of ideas starts in his mind, while reading this and similar sentences; he is cager to know more aboul it, and learns fast to read and 10 spell.

Our boy was taught by nobody, he did not dinow a single letter, but he had used his senses, he had observed, reflected on: objects, which interested him, and had spoken whenever there was somelhing to comminicate. Should our schools, perfect in many respects as they are, not be able to do more and better work than mere chance? Most assuredly so. We can do it, if we condescend to copy after nathre.

And now I shall return to the question, - How max the dislike towaid books be conquered in schools ?"

Childsen upon entering school encounter a book with hack characters, all arranged in straight lines, and now: and then a blati picture-it is the primer. In it they read continually the ideas of others and spell the words -for little children certainly a dreary work and it cannot be wondercd al that they are glad when the recitation is over-they will naturally look upon books as their mivileged tormentors

Take ariay these tormentors from the first grade entirely. Make the children speak. Show them objects or pictures and lead them to produce oral compositions; tell them stories about the pictures, and malie them relate them to you in return; and verily you will see bright ejes, smiling faces, and hear intelligent words and phasases enough in your room.

Do not fear that the pet child of nur schools-disci-pline-will suifer by this, for a soft word from a teacher, who is a source of so much : w to the little ones, worlis wonders in an animated class.

Change the subject irequently; take objects from nature, especially animals and living plants ; explain their mode of existence, cle.; and thus the first grade might well be excused from a lesson in "natural science" lasting an hour.

This mode of teaching the first grade will stock the minds of the little children with a vast amount of knowledge. received directly through the senses; it will lead them on form combinations, draw compari-
sons, and Will tunder the guidance of a carefnl and intelligent teacher train them to express their thonghts in concise and correct language.

Combine with this, singing, arithmetic, drawing, Writing and reading script, and you will have children whose mental faculties are amply prepared for the introduction of hooks and who will thinle the raluable gifts which will gratify their aroused appetiles for knowledge, commanding, as they do, a goodly portion of it already.

At this stage the art of reading will not only he very readily acquired, iut it will also prove to them a highlis appreciated means of gaining more lnowledge, and books will become and remain, what they ought to be, their friends for life. To teach the first grade in this manner is. be no means, easy work, and will require the most careful preparation on the part of the teachers. Some even might not be able at all to do it, lmi valuablo help could be rentered to them by meetings lilie this one, where lec! tres on the subject might be given.
If the experiment should be made, and in European countries it is no more an experiment, the teachers in the upper grades would soon find a sel of seholars with whom to work would be a pleasure, and those very pupils would enter life well prepared.
If my views upon the subject before us should happen to differ materially from others I beg you to regard all I have said as an opinion gleaned from careful observation and I hope it may give rise to more sound and carnest reflections, and indirectly help to benefit our common schools.-American Journal of E:lu cation.

## Hints to Young Teachers.

In the most educational publicatiens, as well as in teachers' conventions, associations, etc.: it lias see:-ied to me that too much was taken for granted, and consequently that the advice and instruction given frequently went over the heads of those who needed it most. There is a tendence to speak in a sneering, and contemptuous way of those raw beginners, green hands, etc., and of chean schools, and country districts, and ignoring any claims they might be supposed to have; to give exclu. sive attention to the improvement of those who have already numberless advantages. It wonld be a great advance, indeed, if our country schools could have such buildings, apparatus, and experienced teachers, as most of our city schools possess; but we must take things as they are, and nol as we would have them-

It is an undeniable fact, that in our land, there are thousands of schools, which either from the smalless of the numbers, or the poverty of the inhabitants, cannot afford to pay high wages, and consequently are obliged to employ inexperienced leachers; and these young teachers, with none of the helps so easily found in the cite, with no opportunity to mingle with other and more experienced teachers, are expected to instruct scholars; of every degree of advancement Irom $a, b, c$, to algebra; and at the same time lieep perfect order: If they succed they gain no glory, and ir they fuil it is, "Just what you might expect, if people will employ cheap teachers.

I have fell a great deal of sympalhy, for those placed in such uncomfortable, as well as unfavorable positions, and hare hope that to such a few words of advice on the practical working and dutics of school. might be hencficial. To those who have hat experience, I have nothing to say, for if they have not learned from that, advice is useless.

Now, my friend, I shall suppose that you are some. where from sixteen to twenty years old, and that you have neree taught school. Your school-house is not particularly attractive ; you have but a small supply of blackboards, no globes, no outline maps, none of the thousand and one things, which are like tools in a leacher's hands; but you are expected, as a discou raged pedagogue said to me one day, "to erolve ever"thing out of your inner conciousness." You have. prorhaps, a sichool of about twenty in prospect, of all ages, from little toddling things, sent to le out of the way, all the way up, to big burly hoys a head taller than yourself, and giggling girls, who expect to study the big boys as much as anything. Your heart sink evers lime that you think of next Monday, and you wonder if you can make then behave, and if you will - lucgerd in teaching, and in doing it well.

You want the pay-1 don't think anyone beaches from purs phitimthrody-but you mean to carn it. You frel a sincere interest in the children. and you wish to henefit them mentally and morally, but pou srarcely know how in do it, of what you should do first. Of course you must always depend upon your own rommon-sense to apply and vary general directions to suit your peruliar sircumstances.-Aew Eingland Journal of Education.

## The Pleanire of Stuly.

## Hy JЭSkFH H.M.!.

I can wonder at nothing more than how a man can be idln, but of all others, a scholar; in so many improvements of reason, in such sweetness of honowledge, in such variet: of studies, in such importunity of thoughts. Other artisans do but practice, we still learnothers run sill it the same gyre to weariness, to satiety; our choice is infinite; other labors require recreation : yur verv labor recreates our sports; we can never want cither somewhat to do somewhat that we would do. How numberless are the volumes which men have written of arts. of tongues; How endless is that volume which God hath written of the world! wherein every creature is a lelter, every day a page. Who can be weary of these? To find wit in poetry; in philosophy, profoundness; in mathematics, acuteness; in history, wonder of events; in oratory, sweet eloquence; in divinity, supernatural light and holy devotion; as so many rich inetals in their proper mines; whom would it not ravish with delight?

After all these, let us but open our eyes, we cannot look beside a lesson, in this universal booh of our Maker, worth nur study. worth taking out. What creature hath not his miracle? what erent doth not rhallenge his observation? How many busy tongues chase aivay good hours in pleasant chat, and complain of the haste of night! What ingenious mind can be soon weary of talking with learned authors, the most harnhess ant sweetest companions? Let the world condemn us; while we have these delights we cannot cury them ; we rannot wish ourselves other than we are. Bes:des, the way to all other contentments is troublesome; the only recomprose is in the end. But the rery search of knowledge is delightsome. Study itself is our life; from which we would not be barred for a worid. How much sweeter then is the fruit of stady, the consiiousness of knowledge? In comparison whereof the soul that hath once tasted it easily contemns all human comforts:

## Of Arithmetic.

## BI MAHY F. COIBLIN.

What a long word 'Arithmetic' is for such wee ones as we are dealing with! Their little longues can hardly: roll around its crooked edges, and yet its principles cain be developed long before they are able to speali intelli. gibly. Once in a while there is presented before thro teacher one of "Nature's noblemen" in embryo, who has no more idea of figures and their meaning, than he: has of the moon, and whose little cranium is entively: innocent of the bump of number, albeit it may boast of any mumber of bumps; but generally the little man of fice can bring yon two, three, or a dozen of any object: you may desire. The work to be done is the making him able to treal of abstract numbers by the figures which ieprr. sent chem. This can be done in a variety of ways.
Kind Heaven be propitious and speed the day whon the "Kindergarten" shall be universal, for when th: pupils shall sraduate into our primary grades, they shall be well versed in the smalier combinations, and thus leave more time from the tedions drill for the innumerable things which hand, heart, eve, and mind find to do in a successful sehool. But till that is the case, we shall have the drill to do ourselves, and the. question is, "What is the best way he which to produr." the best results?"

Since the interesting auxiliaries of the "Kindergarten" are not at hand, we must improtise something. The little fellows who can't read can hardly stand up before you, book in hand, and recite from it; but tangible: objects are the proper things ; the rows of desks, the bors sitting at then:; the chairs, pietures on the walls, beolis on the teacher's desk, blocks, beans, sticks, eyes, noses. heads; any thing but fingers. Don't let them, on any consideration, use them, for there is no habit harder for the teacher to break up than that of counting fingers: they are ever present, and it is so easy to do it, that the child keeps at it long after there is no necessity for ans help in the matter. Never allow it, but let him sec an! variety of things before him, handle them, separat. them, and comit thein together. After this, teach him to think of something at lome which he cannot see; his blocks, marbles, tops, bobs to his hite-tail-anytbins you can think of; and if your powers of imagination fril, let him hel? you; ten to one he will brighten up? and startle you with something you never thought of: Find out what is a favorite with some dull one, and then look into his eve when you ask him some leading question about it!
Said a teacher to a hopeful mamma in my hearing, - What kind of a boy is that of yours? lhave tried for a whole week to obtain some answer to the most simple questions in arithmetic, and have mosi signally failed: he did seem dreadfully stupid, Madam, till, by chance. i happened to say something about horses, and then to mycomplete surprise, he woke up immediately and answered every one quickly and animatedly: and now 1 don't have a bit of trouble.'
The poor little thoughts were a "wool-gathering." while the teacher was ignorant of his peculiar bent, but the moment she discovered the road he liked to travel in, and was interested in, she found no difficulty with his paces.

There is a kind of despotism about numbers, and, as the pupil advances, he must have all answers of ever: conceivable combination, contained in the ground principles, $:$ : his tongue's end, without stopping to calculate: $4+3=7$ he must know it is 7 in an instant, withoui thinking it out, $5+4=3$; it is 9 , aluerys, in a second. As
soon as the guestion rings out, the return stroke must bring the answer.

I remember once hearing of a saintly old lady who solemnly affirmed that "shc should know a good minister if she heard him in England!" So the boy at your side must know that $i+5=12$, sc., wherever he hears it, short of the Moumtains of the Moon!
"Subtraction"., can be developed at the same time with "Addition"; thus. $7-2=5$ because $5+2=7.10-$ $6=$ i. because $4+6=10$, \&c. If they do not see that rea. dily,-and there are some who will be as obtuse and blind as any one-sided politician ever was!-let him take the objects at hand pencils for instance, and manipulate them for himself; here are 10 pencils, from which number he removese; he sees 8 remaining. and he thus linows that the two piles together make the number he started with, i. e, $8+2=10$.
After a little practice, he will see them in his " minds eye," as he now sces them literally. An ingenious device is to presuppose these tables or combinations on the door, the wall, the hand, or the teachers forehead; their litule eyes are looking, their little thonghts are working, and their little lips are giving correct answers, whereas, otherwise the interest in such dry, abstract food would materially flag.

I do not think too much freedom can be given to the imagination in conjuring up devices to arrest the attention in the study of "Arithmetic." With scholars of the higher grades, the interest is in the nature of the problem presented, and a searching anong its intricacies ferrets out the answer. So with our little ones; the questions we give are only problems to them, and we must direct them on the way.
I do not offer this as a "'treatise on methods," but simply to show the inerperienced teacher how much depends upon herself, above books and methods. in the successive mastering of the principles of numbers by her young charge. I have only touched upon some few pays by which they may become interested in the study, and by which they may pleasantly fix in the memory what might otherwise prove but an unpleasant ind wearisome tajk.-Ncw England Journal of Education.

## Methods or Culture.

hy J. bat.dwis.

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Every where teachers suffer whims and precedents to determine their methods. Exploded follies are perpetuated from age to age. Monstrous absurdities are practiced and even extolled. Vicious methods hang as im incubus upon the profession. It will ever be thus till teaching is placed on the solid basis of science. Attention is here called to a few of the mistakes into which teachers, unguided by principles, are liable to fall.

1. Crowding Jlemory is one of the most baneful mistakes of the profession. This is done in three ways:
(1). Courses of study are overcrowded. We try to spread the child over the whole realm of science. A mere smattering, rather than a well defined knowledge of each branch is the result. "Be content to be ignorant of many things, that you may know some things," is one of the best things said by Dickens. Our courses of
study need careful revision. Many subjects must be study need careful revision. Many subjects must be omitted, and the best for all purposes retained.
(?) Pupils are permitted to pursue too many studies

1
at the same time. Five, and even six are not uncommon. More than three studies at a time is a serious mistake. Theory and experience alike demonstrate this fact. A multiplicity of studies violates the plainest latrs of memory: I may here caution teachers against the oppo. site error, "a single study." Schools founded on this idea are based on a false theory, and are condemned by all sound educators.
(3) Memory is crowded with countless details, rendering impossible a firm, clear, comprehensive grasp of the subject. True teaching must supplant this common but inexcusable error. Pupils must be led by induction and reduction up to definitions, principles and rules: led to master the great central principles of the subject and to group around these the essentials. Pirticulars should be used to develop the subject, to illustrate, to apply. Results and processes need to be retained. Details are used as scaffolding, and as such thrown aside. Such teaching gives tenacious memory and the highest culture.
II. Parrol Teaching is a most baneful educational mis, take, and is alarmingly prevalent in schools of every grade. Bright pupils, who glibly answer all questions in the language of the book, are the pride of superficial teachers and thoughtless parents. It is not strange that such pupils are seldom heard of after they leave school. They are mere human parrots, weighed down by a vicious method that prevents all true development.
True teaching gives independence. Give me the pupit that delves and delves, and who will not rest till he has grasped the meaning, who expresses in his own crude language his own ideas. Such plodders become the men and women who move the world. True teaching trains pupils to such habits of study and recitation. Not mere words, but thoughts are stored. Memory becomes vigorous because rationally used.
III. "llumdrum and Fuss and Fealhers" are extreme educational mistakes. We want neither too litlle nor 100 much drive. Dull, insipid, pointless teaching, is a fearful thing. It is the worst of narcotics. It fosters poor memories and poor lessons. The fuss and feathers teacher goes to the opposite extreme. He makes a show of doing much, but in reality accomplishes little. He hurries and confuses his pupils, and thus renders good resu!ts impossible.
Avoid both mistakes. Awalen and sustain an intense interest. Manage to have pupils forget themselves and become absorbed in the subject. Give the pupil time. Train him to swstematic and determined effort in remem. bering and solving. Stimulate him to be plucky and to conquer by an indomitable will. One recitation thus conducted is worth a score of the "humdrum " or of the "fuss and feathers" kind. Such teaching develops power to achieve. It is the kind of teaching demanded by the spirit of the age.

## Footprints of the Great.

It is a fortunate thing that we have the lamp of biography to bring into view the footprints of the great men who have gone before us. Every small man need not try, of course, to stride along in the footprints of a giant. But still every one has some peculiar talents which it is his business to put out to the best advantage: every one has gifts which he ought to cultivate and employ to a great end. And from those who have preceeded him on the same path and employed similar gifts with illustrious success, he may glean much wisdom to guide his own course. If he knows not how
(o) encounter some small difficulty he may inguire what wapons they wielded for a like purpose, and perhaps. he will wielil them with a like success.
bonergy is lise poworfol weapon whicti achieved victory for all great men. Whether a man is great in War, it politics, in seience, literature or the fine arts, the never would hate been so if he had not been a man of energy; and moreover, a man of concentrated onery:

In litterature, the ancients addicted themselves to one species of composition; the tragic poet appears not to have entered into tho province of comedy, nor, as fin as we know, were their historians writers of verse. They devoted their faculties to one object, just as the rays of the sum mar be directed on a single point with a hundred-fold intensity through the lens of a burning Elass; and to this concentration of energy is chiefly owing their general superiority over the moderms. 'Ihis is the great principle of constancy in one occupation which is parly impeached in tho well known maxim: "Beware of the one-book man!"

Now, who are the one-book men? I believe lhat they comprise many of our great names. Everyone knows how assiduously Demosthenes went on transcrib. ing his 'hucydides. Then, St. Chrysostom, whe to my inind was by far the greatest orator that over lived, spent two years in a solitary cavern, reading and meditating on the Holy Bible, so that we are told, he knew it perfectly by heart. Among a hundred more recent instances, there is that of Chatham, who studied Barrow's sermons so often as to repeat them all from memory. 'There is scarcely any great literary man who has not heen particularly addicted to some one book. IIere they established a vantage ground where they had a firm footing and a secure fortress.

Everyone, therefore, who engages in litterary composition, if not natifrally drawn to choose some superior model, should learn to do so from such great examples. But he should determine for what purpose he will take up one especial book. This would lo the best for its itlmirable style ; that for its depth of thought; another for the wisdom or science it contains; and in all cases the writer chosen should be the very hest of his kind. Then the mind will acquire a decided and rigorous tone-the absence of which is so commonly fell ; and it will be kept from that vacancy, inertia and dissatisfartion, which are produced by the practice of desultory reading. This habit indeed will give the fulcrum on which, with the lever of his own peculiar talents, cach one will be able to move the world of though.

But this one book system implies a constance which has in it something heroic; and therein lies the energy, and therein lies the greatness of the great.

But abore all is energy repuired in the act of composition. It is mere nonseuse to say thal great geniuses sif down their thoughts without labour. It is true, perhaps, that there have been one or two cases where wonderinl powers of mind have been umited to as wonderful powers of expression, and where thoughts flowed ont almost spontancously in a torrent of eloyuence. It was so with Shakspeare in modern days, ind it was so with Iomer in the olden time. But those instances of energy of thought and expression without oflort are remarkable exceptions to the general rule. We hear very differently of the ast majority of famons writers. Take the poets: Emipides wrote one line in the hour; Ariosto wrote some stanzas descriptive of a tempest in sixleen different ways: Petrarch made fiftyfonr alterations in a single verse; even Byron, whose words rush along in an irresistible stream, displays riry many erasures in his mannscripts. If this be the
case with poets, it is cven more so with other writers. To go no further back than olly own time, Lord Brongham wrote one of his speeches twenty times over: Bulwer Lytton says it was with "incredible labour" that he composed his first fletion. Di. Newman is nearly always ill aftor the labour of prolonged composition. Gibbon, the great historian, composed his memoir eight or ninue times, and after all left it unfnished. These are bit a few inslances out of many.

Now, what an extraordinary amount of energy is displayed in all this labour. A weak spirit would be daunted, and give up the undertaking, or hastil; throw out some crude production to meet with a similar fate to that of many a poct,

## "Whose swect melodinus works have sunk

To wrap up sausages, or line a trunk."
But the great writer lias lefore his mind a grand ideal, which he labours hard to express in language commonsurate to its loftiness. He strains intensely after this ideal; but all the time his labour is an enthousiasm, and though at times his mind may be wearied, it is ever borne up with the inward consciousness of nower: The struggle between the mind and the idea is often long and severe; often they "wrestle as in a war-embrace," but in the end the patient energy of the manly spirit obtains the mastery, and thought becomes embodied in words.

## A. Journey to Grammarland.

There was once a little boy who had agreat desire to please his mother, and she was very anxious for him to learn grammar. To accomplish this, they worked together with all their zeal; but it was very hard. To learn to speak requires much time; but one accomplishes it, and with pleasure too. When we say "ossee" to the baby, showing him a horse, and he repeats it, everybody is delighted; his mother rewards him with a look and a smile full of tenderness; his father embraces. with a shout of joy, his fat and laughing form ; and the little fellow vigorously brandishes his arms and his legs, in order to show thit he is happy too.

That is not the way with the grammarinus. Those poor gentlemen never laugh, and they have, alas! something more important to do than to kiss little children. With them it is no longer "ossee"; but we are in the presence of "horse, a common substantive, third person, masculine gender, singular number, forming its plural by addings, and whoever can't leam that is a little dunce!"

It is clear that there is no fun in that.
One beautiful summer morning, the mother and the litle boy had risen very early to review carcfully the page of grammar which he nust reqite that day. The sun, which made the dew-drops in the grass glisten like diamonds, had entered the room though a corner of the window, and seemed to invite them to come and sere how beautiful it was out-of-doors. The red breasis, the tomtits, and the limets called them with sweet songs, from all tho trees of the garden; and the large rosebush which grew behind the house, agitated by the monning breeze, stroch the window-panes which ils bunches of flowers.

Obedient as he was, the dear child had not courage enonfle to resist this universal invitation. His legs, which inoved about in spite of lim, asked to carry him

[^0]into the garden, and his bright ejes could not do other wise than quit the book sometimes to play with the sun amid the flovers. The mother herself stifled a sigh, and it evidently cost her a great efrort to keep the poor little boy in the room, when everything called him into the open air. But sle could not think of yielding to such a weakness, for the master would soon be there; and when he had put on his spectables, and assumed his imposing air, he was not a personage to be sneezed at.
"Mother," said the child, all at once, "please explain this phrase; I do not know, what it means, and I am :fraid I will never learn it."
He was studying the modifications of verbs, and this is the sentence which he had to commit to memory: "Number is the form which the "cre talics 10 express its relation with unity or plurality."
llis mother took the book in her beautiful white hancs, and her pretty eyes remained fixed with fright upon ino inrase.
"Ah!" said she to herself, "I thought I used to understand the meaning of number in verbs; but now it seems to me I do not know any thing about it."
She remained immoveable, her mind plunged into a profound abyss, while her lithe son contmued to interrogate her with his looks, with that simple confidence of children who think nothing too difficult for mother.
Just at that moment the door opened very softly, and an old friend of the house entered without knocking. He was a round, little mau, with a merry, fat face, still fresh under his white hair, and with lively, blue eyes, filled at the same time with nischief and with goodness. Many tales are told about him. Often he disappeared for whole months, nobody linew where ; then he suddenly reappeared, and no one dared to ask him where he had heen. But is was rumored about that he was a sorcerer, and that he had at his command a magic chariot in which he could fly to countries that no one hisid ever seen. The little boy loved him very much, because there was no one like him to amuse children; and the mother was delighted every time she saw him, beeause he often aided her in her difficult task of instructing the little boy.

As soon as she saw him, she held out the book without saying a word, indicating with her finger the phrase which she found so difficult to understand. The little man had hardly looked at it, when he frowned and anger flashed from his eyes. He loved children so much that he became very angry when any one wronged them, and in those moments of rage a sometimes went so far that he actually became funne:
"Who wrote that?" cried he, pushing the book from him, as if it were something odious. "I don't know what keeps me from going right through the window to twist his neck!"

The good old man, in his exasperation, hat tet out his secret.

He appeared to reflect a few moments.
"Listen," said he, at last; "since anger has made me boast of what I can do, I will place at your disposal the power of which I, like a goose, have spoken. I haved just returned from a journev which has fatigued me much, and it will cost me not little to be off again so soon; but it shall not be said that I have left you any longer at the mercy of barbarians. Come with ine. I will conduct you to Grammarland. It is a country where little children can amuse themselves as well as elsewhere, when they enter it in the right way:"
So saying, he waved his hand. The window opened of its own accord, and the banches of the rose bush parted to let pass a chariot of motheronf-pearl, hawn by two large swans, white as snow. The litte man
lightly jumped into it; and, having invited the mother. and litile boy to a seat he his side, he set out with them through the air.
"My dear child," said he, when they had lost sigh: of the earth, "what we wish to teach you when we place a grammar in your hands is much more important than you now think; aml I charge you to open well you oyes and cars when we arrive in Grammarland.
"When you came into the word, you could ulter only groans and confused cries, similar those of animals. Those who are born deaf remain so all their lives. It is impossible to teach them to talk, licause the words which we pronounce before them cinnot enter their ears; and, for want of exercise, their mouths are able to produce only a sorl of groaning or muttering.
"Youknow how to speak already, thanks to your mother, but you are still too young to understand what an immense service she has rendered yon, and how much time and labor were spent by the first men in their efforts to transform into articulate language the coarse sounds which formerly came from their lips.
"Don't ask me any questions: your eyes have said enough, and I knew that I must explain the word articulate. In order to do so to your satisfaction, I must give you a short lesson in natiral history:
"Touch with your finger that little ball which you have in the middle of the neck, and wheh is called Adam's-apple-rhy, I know not, though. Hive you found it? Well, keep your finger on it.
"Now, open your mouth, wide, and drive the air from your chest with the least possible noisc. What do you feel under your finger? Iny movement?"
"Very little."
"Try again, with your mouth wide open, and imitate the cry of a baby. Don't you feel the little ball tremble under your finger this time?
-It is in that place that the sound of the voice is produced, thanks to two membranes placed in the inte. rior of Adam's-apple, between which the air which comes from the clest passes, and which are tight or loose, actording as we wish to make much noise or none at all. A chord tightly stretched gives forth a sound when struck, but none when it is loose. That is precisely the case with the membranes of Adam's apple. They are called the vocal chords, one of the prettiest names ever invented by those whose business it is to designate the innumerable parts of which our hodies are composed.
"The rocal chords exist also in animals, which, like. us, have lungs, and a windpipe through which the air comes and goes. They have a voice as.well as we; but it is used by them only to nter cries, because the noise goes from their mouthis through nearly the same channel for each of them.
"Man has learned to break and bend his voice at the moment when the sound passes into his mouth, by disposing his lips, tongue, and teeth in a thousand ways. so that it is modified and transformed into a series of sounds very distinct from each other. Just now, when you had your mouth wide open, the sound which came from it was the same all the time, becanse it encomtered nothing which could bend or modify it. It remained just as it was formed in the passage of the air through the vocal chords. Amase yourself by pronouncing. rery slowly, lo, re, mi, fa, si, la; by paying attention. you easily see that your lips dispose themselves diffe. rently to pronounce those different sounds. They do that of thenselves, because they are accustomed to it. like well-trained horses that promptly go of their own accord to the plate which they ought to occupy; but ask yo 14 mother how much care and patience their apprenticeship has cost her.

- That is, dear child, what is called articulate language. The name articulate is fiven to crery thing that can be bent. breaking itself, so to speak, into several darts, just like your fingers, for ecample, which divide themselves into three parts when you shat your hand. sud now, if any one tells you, in your reading, on artirulate your words well, I hope you will know what he means, and that you will take inuch care 10 profit by this great adsantage which you have orer animals.
$\because$ The advantage would not be so very great if it was unly an affair of music is not so gond is that of the little linnets in your mother's garden; hat it enables us to clothe, in words casy io be linown, the indeas within our heads, and to take them out on show them to shers. This is of incalculable value.
"What is an idea? It is an imate, of picture, in the rigorous sense of the word. That is what it signified among the Greeks, from whom it came to us.
"When you say mother, house, horse, those three words which you pronounce bring before the eyes of those who hear you three diflerent pictures which were drawn in your head at the moment when you spoke. It in true that those pictures are shetched so rapidly that a thoughtless little boy may not see them ; but by paying attention, you will soon learn to recoguize them. Two men that speak together are like two child ren who lend each other their pietures: for it is just that which we do when we exchange our ideas, as we say.
"All our images are not of the same nature as those of which I have spoken. Those are sensible and material ideas-ideas or nictures of material objects, or things that we can see or handle, as a house, a horse. You are more fortunate than many others. dear child; you do not want for any hins. I am sure. howerer, that you are sometimes made to wait for your breakfast or dinuer, and in those moments you haye a great desire to cat. If I pronounce before you the litule word hunger, which has made many unfortunate ones tremble, it will awaken in you the remembrance of what you then cxpericnced. Hunger is not a thing whose picture we can draw, and yet this word conveys to you :m dea or descruption of the state in which you lind yourself every time you are made to wait for dinner.
"I will not undertake to explain to you now all the kinds of ideas that we express by words: we will come to that when we engage in the special study of worde. It is enough for you to know that a word could not cast if it had not been cre:ated evpressly in represent -ome adea, and that should teach you never to employ a word that does not conver some idea to you.
- But man was not satisfied with fimbing words with which to clothe his ideas. He studied hon 10 eatch and tame, so to speak, those words which lien away into the air as som as spoken, and how to make them risible so as to preserve some tran of the ideas nhich he could not retain in his mimory. :mal so as to converio with those who might be out of the reitelh of his volre.
"That means was writise, an invention amod as wonderful as that of speech: and the lithe boss who grumble when leazaing to write theor lethers do not know how much gratitide they nwe the men of genius who invented those marrebuns sians., whose combination represents to our eyes the ideas that thio ir cmbined sounds represent to our ears.
"The alphabet has the appearance of something of very litte importance. To make curves and straight lines. oh : how tiresome : Well. those curie and anaight lines are the most powerful instruments which human intelligence has yet given us. By their aid. the labors of all men, in all ages and resions, may be kept for each one of us, and the labor of each one may be a lenmfit in all. If any one should write what $t$ am
saying at this momen, the litlle boys on the other sid. of the world might profit by it, provided it should please their mothers. What are our greatest writers compared to the creators of the alphabet? The former are the tiles of the roof; the latier, the stones upon which the house is founded. The fist shine in the sun and live in the air, while the others lic burind in obs. curity: yel it is the latter that carre all.
- Gince in possersion or speceh and writing, man can charly explain his ideas. he makes for himself rules. groups into distinct families the words scattered in hio menore studies the ant of speahing and writing. and the reign of grammar commences- not to make littlchildren despaitr as yon liave imagined, but to emobh. and fortify them. by teaching then to make themselve master of Cheir ideas in order to express them. Well.
" You ought to understand now, my litlle fuiend. that grammar is an important science, one which has cost much trouble to create; and the children of to-day ought to think themselves very fortunate to find it ready made for them when they come into the world. Instrad of becoming impatient over the difficulties which thes encounter, they ought to think of the nuiuch greater ones which those who made zrammar met and conquered, and they ourlit to thank them with all their heart, and try to profit hy their works.

Spech is one of the principal things that distinguish men from brutes, and it is also be language, much inore than be birth and fortune that inen are distinguished from earh other. Whether yon are poor or rich will make little differeute with a well-educated man. It is by hearing you speak that he determines whether you are in bis circle or not. If you wish to count for somebody in this world. it is necessary 10 prepare yourself now by forming sood habits of language; and the best way to form them is to go bravely to the rules which teach them. howerer dry and uninteresting they may appearto be.

TThat is mot all. In lahing advantage, for your instruction, of the work and painful labors of the first men. you ought to thinh that there are many children Who have nut the good fortune, like von, of tirine themselves over granmar, and who will ne:er know what you are learning. Graminar is as important to th $\cap \mathrm{m}$ as it is to yon. This great benefit of a regulated language is a common heritage left by our ancestors tu their descendants, and it is not right that any one should be deprived of it. Think of this when you are grown. and tre to remedy the injustice of lot or condi fion in life. Think of this cyen now, when you are inclined to feel jealous of the lithe boys who runin the street, while you are kept in the house studying your grammar. Thery ourht to be jealous of you, Ior you hare your pat of the great inheritaner, and they are losing theirs. Stuny vour grammar with ditigence, and fy to inces: it with a lively interest. It teaches the wifh use bi languages. If leaches nito sperth and write correctly to think and reason correctly. Ali suceres in the higher and nobler waths of life is largely dapendent upon that knowledge which the study of grammar gises us. is it teaches purit? of speedh, it leads to purity of thought, af heart, of :exim. of life. Hemember hat
Coars: spmoth, bad grommar, diriaking. fambling, s: ir:
"Hhe who is refined insperch is more spt to be refined
in heart and in life than the man of coarse language. The study of grammar is, then, an important element in sircuring ellightmment. refinement. and pmily of



## Hchool Teacherw' Ashociation.

The socond quartorly meoting of the members of the Prolos. tant School 'reachers' Absociation was held last evening, Prof. 3 IcGregor in the chair. M. Weir oponed the procoedings rith prayer.
Tho Secrotary read the minutes of tho provious meeting, and also the minutes of tho Council held the same evening.
On motion of Mr. Micks, M. A., عeconded by Niss Clarke, Mr. IR. Weir was appointed Treasurer pro ter-
Principal IIicks mado a fow remarks on wo art of teaching composition, a subject treated in a paper rand at the provious meeting by Mr. F. W. Hicks; he dwelt urun its importanco in cultirating correct habits of thought, and mentioned that teachors generally neglected teaching composition as an unpleasant, task, one reason for display in public; sgain, clildren disliked it, as they could not perceivo their progress; further, and a very great reason,-it gave a large amount of trouble to the teacher; and in fact, it mas quito cortain that it would bo. an instrument of great benefit, which would lead in their schools: to tho acquirement of sound education.
Prof. Mills, of the Normal School, remarked that Englishspeaking people trere not generally gifted with facile oxpres. sion of their thoughts, and held that groat writers were at present somernhat ravenous readerà. Le ascribéd neglect of composition to lack of thoughts, and was of opinion that whep a pupil had no real thoughts to write, it ras useless to boro Jim with the troub e of preparing a composition. The porrer of observation should bo cultivated : and the study of the meaning of nev roods was profitable by widening the mange of vocabulary.

Prof. McGregor observed that the choice of a proper item was a highly important matter; at tho time of that event he had solected means of meeting' the Fenian iurasion, aud the results had been so satisfactory as to surprise and ploase him, tho topic being ono in which the pupils wero tioroughly interebted.

Priacipal Hicks-With regard to the subject, mistakes in teaching, stated as great ibjury was froquently done through rant of expericnce on the part of the teachor, the importance of caroful proparation of tile work was evident. Ono of tho most serious mistakes for any person in life was to place oneself in a position for which one was not fittod by nature this mistake kas not rarely committed by peoplo who adopted the tenchers' profession. Tho teacher should possess-first a lore of children, 3 ind secondly, a decided liking for a teacher's occupation, and thus fortiicd, he had some chance of battling succossfully with the trials well known to all prosent. Nio one should become a toacher until ho had carefully countod tho cost, and one of the most common m stakes made was to look for immediate rosults in tho worlf, of education. He (Mr. HI.) had committed the error whon he took charge of his first achool, which tras in a rory disorgsnized condition. The taseler, further, should not be of the kind who considerod teachi $g$ as an unpleasant task. Another, and a yery serious mistake, consisted in the giren of apecial lattention to a few scholars, because they oxhibited that poculiar aptitudo which a teacher ras alrays pleased to find amongst the sckolars placed under his caro or such attention to tho most adranced, and thercfore tho likoliest to attract at'ention. Anot'ier, and a frcquent mistake lay in tha giring of tow muchattontion to tho teacling of a subject for which the teacher might haro a liking. and to which he might haro deroted a large amount of his orrn time, becauso ho felt plessuro in so doing. Many young instituctors undorvalued the subjects of primary importanco because thos were olemontary, and thoy imagined that they wore promoting the benefit of their pupils when they taught somothing of which they had heard as an adranced branch of knowlodge. rithout considering its fitness for the young. One rould choose mathematics; another, a sciontific onquiry of arother nature, \&ic, minile others hit upon grammatical construc tion, a hobby which thoy rode to dearth. Teachors often neglected tho groat truth, that all children wero not aliko in natural capscity, though overy person, ordinarily speaking, must bo akaro of this fact. In this connoction also camo tho haioit, bocause a teacher mas mell scquainted with his subjoct, of going into tho class room rithout preparation; this $\pi 2 s^{3}$ rery fatal au well ins a common error ; preparation or orery losson mas ossentially nocessarg. Iastruction mes again, at times, givon in such a may as to lesro no chanco for individual exertion, as fur as pupils rero concorned; ho
was roll arrare of tho adrantoges of oducation as recoired from the prosont mode of toacking as compared with the dead system which prevailed in all schools years ago; [the ovils rero sufficiontly obrious and first, tho reakening of tho syatem, removing from the young tho opportunities of ascertaining to what extont they might bo ablo to rely upon thoir orn exertions in pursuing their oducation in futuro lifo ; and another, the increaso of a teacher's labor, as he would become so accustomed to songtant ropetition and oxplanation that ho imagined that nothing could bo done without his assistance. (Applause.)
anr. Humphrey, tho Secrotary, in the course of tho desultory dobato which followod, favored whipping in schools.
Miss Cunningham eang, " I sent a letter to my love." loudly. applanded.
arr. Weir read a paper on the tendencios of the plofession : and Miss Rexford gave nas amusing soloction anent donntion parties, and the proceedings closed at 10.30 n'clock.

## MaGill Enivernity.

Thu corporation of ScGill University haso pleasure in acknorledging tho following donatiens to the Faculty of Arts, during the quarter ending January 3ith, 1876:-

## TO TIE LIBEART:

From the Gorernment of the Dominion of Canndi-Statutes of Canada, 1875, Engli-h and Fronch, 2 rols., 8ro.; Sessiomal papers, ̇o. 2 to vol. VIII, Svo.

From the Government of the Prorince of Quobec--Journal. of the Legislative Assembly, sessions of 187475 , Svo
From W. C. Harris, Esq.-Sketch of tho Goology of Moras, Svo.

From W. G. Beers, Esy.-Examination lippers of the Cioyal Collego of Surgeons of llogland, 19 pam., Svo.

From Principal Darson, L.L.D.-The Darrn of Lito. Sro.
From S.S Laws, Esq, M.D- $\Lambda$ Thesis on the Dual Constitu tion of Man, or Neuro Psychology. Pam., 8ro.
From Dr. Wells Williamy-King Pao, or Peking Gazotle, Sept 18, $18 i j$. Ono copy.
From the Boston Socioty of Nutural Mistory:-Proceedinga, rol lith Sro. Do. Uocasional Papers, No. 118 o. papor.
From tho -ecretary of War, Govornmont of Washington.Annual report for tho Fiscal year ending Juno 30, $18 i \overline{5}$.
From the Smithsonian Institution--Annual leport of the Regents for 1Sit, svo

From tho Institution of Civil Enginecry, Loudon, Eng.Minutes of proceedings, vols. 11 and $43,8 v o$.
From the Caiversity of iberdeen, Scotland-Catalogue of the library of the Vniversity of Aberdeen, 3 rols., roy., Sre ; Aberdeen Cuiversity calendar for tho yoar 1Sis.i6, i Ud., Syo. From the Meginl Collego Book Club-97 vols, comprising recent publications on various subjects.
From the Geological Survey of Pennsylvana-heport of pro. gress for 15it-i5. 3 pam., Sro.

то тuc acsicy :
From W. C. Marris, Esq. Wpecimens Ortheceras and Colyncte, Utica Shales.
From i M. C. Seliryn, F.RS.-Specimens of Gamel. from Stickeen R., British Columbia, and Indin Potury fram Britisha Columbia
From William MacCulloch, Esq., Kontreal.-Collection of shells and Crustaceans from the South Pacific.
From y W. Spencer, Esq., Ba. App Sci.-Specimen of Dicty oncma, from IIamilton, Oni.
From W. J. SIorris, Esq., Terth.-Specimeus of Eozson, from Rurgess, Ont.

POETズ.

## The cilory of fird i:z Crention.

Thou art, $O$ God, the life and light
Of all this rondrous world wo seo:
Its glor by day; its smilo bs night,
Are but refloctions caught from theo:
Whoro'r mo turn thy glorjes shine, And all thingg fiair and bright are thine.

When ciay with farewell beam dolayo, Among the oponing clouds of oven, And-we can almast think we gaze Through golden vistas into liasven; 'Those hues thent mark the sun's decline, So soft, so radiant, Iord, are thine.
When night, with wings of storny gloom, O'orshadows all the earth and skics,
Like some dark beauteous bird, whoso plume Is sparkling with a thousand dyes; Thast sacrea gloom, those fires divine, So grand, $s 0$ couutless, Lord, arathinc.

When youthful Spring around us breathes, Thy spirit warms her fragrant sigh: And every flower the Summer wreathes, Is born beneath that kindling eyo;
Whers'ar wo turn, thy glories shine,
And all things fair and bright aro thine.

## Aspiration.

llave we not all, amid life's pette strife. Some pure ideal of a nobler life
That once seemed possible? Did ne not heur The quitering of its wing, and feel jit near, And just within our reach? It was? And jet We lost it in this daily jar and fret,
And nonl live idle in a vague regret:
But still our place is kept, and it wili wnil lieady for us to all it, soon or late.
No star is ever lost we once have sem;
We always may je what we might have been.
The good, though only thought, is life and lireath :
God's life can alvays bo redeemed from death,
And cevil in its ralure is decay.
And any hour may bol it all away:
The hopes that, lost, in the far distance srem
May be the truer life, and this the dream.

## Endirance.

How nuch the heart may bear, and set not break: How much the flesh may suffer and not die: 1 question much if any pain or ache
Or soul or body brings our crad more nigh: Death chooses his own time ; till that is worn All evils can bu• barar.

Wr shrink and shulder at the surfeon's binife. Fach nerie recoilling from the cruel sleal. Whose cdge secms searchin" for the quivering hite: Yel 10 our sense the hitier jrangs reveal That ctill although the trembling firsh he imru. This allsn can be borar.

Win sre a sorrow rising in our vay. And try to ller from the appraiching ill:
Wr seek some samill sciaprep we woplin and pray:
But when the blow inth fall. our hearts arm stilt:
Not that the gain is of its sharpaess shorn. But yet it ran be borac.
Wi. Winat our lifer ahmentanother lifo. stie holia at closer, deaner than our ouna:

- hon it faimes and Falls m deadly strifc. Leaving us sat, stumed, sich ched and atome.
lut ah: we do not die with those we mourn: This also can be herne.

\$3:1 cavement, prin ; all greefond miser.
111 wor and misery; ; life innicts its woni
Gle soul and body-hat we cannot die:
Thongh wejbe sick and timl, andi faint and worn. Jn! all hinase cal fr harne


## What is IIfe:

A little crib besids the bed, A littlo fuce above the sproad, A littlo frook bohind the door, A little shoo upon the fioor.

A little lad with dark brown hair, A littlo wlue-wyed faco and fair, A littic lano that leads to school, A littlo pencil, slato and rule.

A little blithesome, winsome maid, A little hand within is laid; A little cottage, acres four, A little old-time household-store.

A littlo famiiy gatherod round; A little turf-heaned, toar-derred.mound; A littlo added to his soil; A littlo rest from hardest toil.

A little silver: in his hair, A littlo stool, and casy chair : A little night of earth lit gloom; A little cortcge to tho tomb.

## OFFICIAL NOTICES


. IPMOINTMENTS.

## fuovisonl sechetahy's crfice.

Quebec, 1st February, 18 ic.
IIis Excollency tho Lieutonant Governor has beon pleased by order in Council dated the 2th January last, to appoint the Monorable Gédéon Ouimety Q. C, Superintendent or Iublic Instruction for the Province of Quebec.

## Minisiry of Enblic luntruction.

SCHOOLS CONLIISSIONERS AND TROSTEES.
Quoboc, 2nd Febraary; 1570.
Tho Licutonant Governor has boen plessed, by orderin coun. cil, dated the trrenty eightJanuary, and in virtue of the powers conforred on him by: the 48 th and 326 th clavses of the consolidatod statutes of Iromer Canada, nako the follarsing appointments of Schools Commissioners and. School Trustces, to wit;

## SCHOOLS COMMESSIONERS.

© County of Bellewhasse, Saint Lazare.-Mr. F. X. Lemieur, rice 3ir. Louis Goulet.
County of Berthier Saint Michel des Sainte. Mr Thiodulo Wigneron, rice 3Ir. Thadee 3Firille Dechêne:
County of Compton, Clifton East-Mr. Fredorick Willians, rice MIr. Willian reed.
Counts of Gaspé, Baic sud.-Mr. Josoph Eden, senior, rice MLr. William Reed.
County of Gaspe, Baic Sud.-Atr. Joseph Eden, senior, rice lierd. J. P. Richmond.

County of Gaspi, Anse of Valcuu.-DIr. Francois Degjardins, sice himself.

County of Hochelaga, Village Delisle.-Mr. Hubert Morin. vice Mevd. F. I. T. $\Lambda$ dam.
County of Megantic, Nielson.-Mr. Robert Smith, rice Mr. Jolin Bain.

County of Mnskinonge, saint Didace.-Mr. Alexis 'Trappior, vice Mr. Joneph Allard.
County of Ottari, Sainte Cécile de Mashan.-Mrr. Cicorge Vaillants, vice Mrr. Elia Rosette.
County of Stapstead, Barford.-MSI. aloses P. Ilaw and Eugène lloss, vice Mreasrs. Moses Drew and Williom Wright.
County of Vaudrouil, Sainte Marthe,-MIr. Antoino deloche, rice Mr. Theodule Desjardins.
County of Gaspe, Rivier re iafnrte.-Mressrs. Iouis Ioy, Isaac Giaze Joseph Gaze, William Mollowney and Joan Japtiste Mrorin

## S(HOOL TRUSTEES

Comty of Gaspi, lerci.-Mr. Thomas Kane, cice Mr. Thomas Mahon.

## MUNICIPALITY LIMITS.

The Lieutenant-Governor has been pleased, by order in council, dated the twenty eight January, 1S76, and in virtue of the poriers conferred on him ly 38th clause of chapter 15 of the consolidated statutes of Lorrer Canada, to make the following changes in the limits of school municipalities, to mit:

Village of Saint Jerome, county of Terrobonne.-To assign to it for school purposes the same limits as those given to it for municipal purposes by the 34 th Victoria, chapter 34.

Les Crans, county of Yontmorency. - To detach from the municipelity of Saint Anne the three small concessions knoirn as "Les Crang," and to erect them into a distinct school municipality under the name of the "Municipalite des Crans."

Also, by another order in council dsted the first of February, in virtue of the povers oonferred on them by chapter 15 th of the consolidated statutes of Lower Cansala, the Jicutenant Governor has been pleased to mako the following alternation to wit:
To annex the St. Maurice Forges Station to the municipality of St. Etienne, in the County of St. Maurice.

## The Report of the Chaplain of Newgate on FAFMAtion gnd Grime.

(Standarl, Jan. $\overline{\text {. }}$ )

The report of the experienced Ordinary of Newgate, disparaging the velue of purely secular cencation as a check on crime, will be resarded with some surprise hy that large number of intelligent persons who are wont to take received theories, and especially current interpretations of ascertained statistics, for granted, without bringing their orvn minds to bear on the subject. It is a common-place among the adrocates of education that a knowledge of reading and writing tends to disconrage thent and make men outwardly if not in heart honest; and scarcely any of them have ever cared to consider that lhe jdeat is so monstrous in itself, there being no sort or traceable connection between the supposed cause and effect, that it should not be accepted without the closest scrutiny of the figures which profess to prove it. We grant that the -majority of criminals are illiterate. This is the case in America as well as here; hout in America there is another fact made equally apparent by: published statistics which se ves to explain tue phenomenon, and might have putiaglish olservers on their panard against rashi inferences. The illiterates of America are chielly negroes and foroigners; and thest ilso form it disproportionately large elementin the criminal class....

The instructed savage is so much more damgerous in enemy than the uticrly ignorant and bratal one that we may. well doubt whetlier the total effect of secular education upon tho anti-social class would not do sociely more harm than good. The thabitual criminals might he fower; but they would lo more clever, more powerful,
more capable of united action. It is their dull butalism, and especially their utter incapacity ol union, which has hitherto rendered them so weak. Were the scoundrelism of London to be combined under the leadership of a few clever chiels-as it probably would be if the scoundrels were educated to appreciate the value of discipline and union-it would be too strong for the existing repressive power of society; it could overpower the nolice and resist the troops, it could plunder the lown and lery blackmail on all whose lives and dwellings it spared ; it could only be crusined after street fights as desperate as Paris has ever seen, and would for years afterwards be able to render the streets unsaie by night and compel us to keep up twenty times our actual police force. Such, all men who have studied the facts admit, would be the effect of combination among the dangerous or anti-social classes of London; and if secular education reclaimed a portion of them, it would give to the rest precisely this power of combination which as yet they pre-minently lack. We cannot therefore afford to educate them unless we educate them in sound moral. And we can find no basis we can offer no motive for sound morality except a religious one. The utilitarian theory has no value except for well-disposed citizens; the greatest happiness of the greatest number has no weight wilh the hereditar: enemies of society. You can teach even the childre:a of criminals and zagabonds to do right and love justice for the sale of those who lored and sifffered for them, or in deference to the power of One who san punish crimp more surely and severely than any earthly judge; but you cannot teach them to bo good and honest, to suffer. hardship and work hard, forero pleasure and resist temp. tation, because it is for the common interest, or even for their own remote interest, that they shonld do so. They prefer present and selfish enjoyment; and why shoula they not? How many of their botters deliberately sacri. fice their own health and the happiness of their families to immediate indulgence? How expect the educated child of the degraded classes to be nobler, wiser; manlier than the educated children of cultivated parents; or to refrain frem seeking weallh and sensual gratifications where education has made him clever enough to discern ways of doing this without incorring immediate punishment?

This is not the aspect of the question on which the Ordinary chietly dwells, but his argument forcibly confirms it- There is alarge class of educated men tho are practically what secular education profess to make the children of the lower orders-instructed but infidel, familiar with all the principles and rules of morality, but madiferent to the motives supplied by religion. In larger and larger numbers the less tucky or less clever of this class are finding their way to our prisons 'They are not criminals by profession-in the present state of things they sce that this would not answer; but they are not scrupulous in their daily dealings. The generally aroid actual theft and fratd punishable by law, but they are so accustomed to dishonest tricks not so punishable that a stroug temptation, or a chance of great gain with small risk of detection, induces them to overstep the frontier. There are organised frauds carried on a scale which -argues the existence of ridespread depravily among clerks, shopmen; and servints; there are traders who live bi inducing these people to cheat their employers; to sell goods at a low price rlich niay uol lie missed; to give linem a dishonest preference in dealings; to run un accounts in their employers names on which they are allowed a commission; all liese villanies go on on a large scale; and men connected with then are allowed to retain the rommerciat and social position of honest
f traders. In far higher ranks framds not less infamous in
themselves, and infinitely more atrocious in their magnitude and the ruin they inllict, are committed by wealthy tinanciers in league with the Ninisters of bankrupt States or the promoters of swindling companies; and even when the frauds are detected those concerned with them are not refused credit or business by the jonest merchants of the city, are not excluded from the society of mon who clain to be honourable gentlemen and even devout Claristians. This has been the result of the education and enlightenment of the nineteenth century-an cducation and enlightenment eminently secular. And if such widespread demoralisation has been the result of the highest secular instruction-if such is the fruit of the deepest secular culturo-what moral infuence can we expect the rudest and simplest apparatus of the same cultivation to effect in the most stubborn and unfavour able soil ? The Goliath and the Warspite have shown what rehgious education can do for the worst materiat; Mr. Jones's report tells us what secular culture can do for the most promising.

## Time and Time-tellers.

THS "o:D" AMD "SEW atyles" of DItES.

In a litile volume with the titte, "Timo and Time-tollers," Just published by Robert IIardwicke, of Picadilly, London, Mŕ. James W. Benson gives us a storo of information, not only as to the constitution and manufacture of a modern wasch, but as to the history of watches and clocks in general, and of those "time-tellers," more or loss artifical, which havo been used from the damn of civilization, and, indeed, tha various modes and plans which bare boen adopted by the Babylonians and other primitive nations for the reckoning of time. In fact, it is an encyclopedia of knowledge on the subject of Time, and of the contrivances by wh ch titit human race hase "kept their cye " upon his movemonts. If it is not in the strictest sonse a scientifictrentiso at all cvents it may claim the merit of bei $g$ a rell $w$. itten popular account of a subjoct which is, or ought
to be, of int rest to all.
The work very naturally divides itself into tro parts, the former, histor cal and strictly rotrospect ve; the latter, expla. uatory of the mochanism of modern watches and clocks. We will not accompany 3rr. Benson into any of his remarks about the flight of time, its beginning and its ond, since theso touch on questions about which it is usoless to speulato, bat $w$,
cannot omit to direct atten ion to his account of the riso of horology, and the earliest conventional divisions and modes of computation of time. To his account of these. however, he might have a ded the primitive plan montionod by Herodotus, of cutting notches in sticks day liy day during distant royages, and the habit of counting by fives to which both Homer and Eschylus allude. But thore is to be found in 3 rr. Benson's pages much that will be new even to the well.informed reader. Thus, with regard to the $d$ fferonce of the English and Ame. rican day from that of other nations, he reminds us that whilo rith us ihe netv day commences at or from twelvo at night, tho Jerrs, the Greeks, and the italians reckon from sunset to sunset, and the Persians from sunrise to surrise. But still eren among us there is another computation for the astronomical and nau. tical day, which counts from noon to noon, and is rockoned ns co sisting of 24 ho rs, nnd not of twice trolve. In respoct of tha dasy of the week, of the lunar and solar month, of tho old Iegal year (commencing from 3rarch 25), of Leap year, of the "Old Style" still kept up in Rusis, and of tho new, or "Gregorian Stylu" introduced into England and America little more ehan a century aso.- some of Mr. Benson's historical allugions are worth noting;-for instance, where he mentions the dislite with which tho English. in Georgo II.'s roign, viened the introduction of the Gregorian style:-
The earth's rerolution round the sun being made in 11 mi. nutes and 11 seconds loss than 3651 days, whinh minutes in tho
courso of 15 centuries renuired to be take into consideration courso oflls centuries required to be take into consideration, Yopo Gregory XIII., in A. D. 158 SN, to Lo of ten drys by making not introduced into England till Mregorian timen how tho orror amounted to about Il days; so 11 daya Fere aubtracted from the curreat
yoar, which was thus made to contain only 354 days, much to the indignation of the illiterate poor ' of that time, who clamored loudly, and assembled of great mobs to testify to thoir senso of tho great injury inficted upon them, crying, 'Give us back qur 11 daye.' One of Hogarth's prints of 'Tho Election' oxhibits a paper containing this very insoription. Tho fury of tho populaco at bing robbed of its procious time availed not; thn day after the and September, 1752 , was mado (by nct of Partiament) tho 14 th of September, and from that time datod tho "New Style," sinco which tho year has been almost exactly correct.

## M.ISCELLANX.

Good Adrice for the Young.-Avoid all boastings and exagge. rations, backbiting, abue日, and evil speaking; slang phrases and oalhs in onnversation; depreciate no man's qualities, and accept hospitalities of the humblest kind in a hearty and appreciative mannor; nvoid giving offonce, and if you do offond, haro the manliness to apologizo; infuse so much olegance as possible into your thoughts as well as your actions; and, as you avoid vulgarities you will increase the enjoyment of hife, and grow in the respect of others.

- Blunders in Betiavior Corrected.
-This samplo of the poetry of science gives us the offspring of $n$ chemical stedding :

> Messra. Water and Oil

One day had a broil,
As down in the glass they wera dropping.
And would not unite,
But continued to fight,
Without any prospect of stopping.
Mr. Pearlash o'orheard, And quick as a word, Ho jumped in the midst of the clashing; When all threo sgroed, And united with speed, And Seap came out ready for washing.
Trifles.-Tho world is made up of triles. The grand moremectets of great events, and the changes of Empiros, are founded in csuees very generally, which would be pronounced trifles by the world. Yes, "trifios light as air" havo lod to come of the nust important discooveries wo have. The fall of an apple gave Nowton tho clue to gravitation; the rlsing up of the lid of :3 toar-kettlo gnro us our railroads, steamboats, ocean steamers, and a thousand other things, not to spesk of the press-that, combined, put the world centuries aliead in the mysteries of the universe and the purposes of God. To the obserration of a flower dimly pictured on a tone, wo owe the philosoplical resoarches in chemistry and light whieh ultimately gave us the
daguorreotypo.
Truth-How beautiful is truth ! In this world, where thero is so much falsehood and deceit, whereby hearty are estrangol. and recriminations, assaults and crimes ongondored -how. beautiful are the true thought, word and deod. Like the sun smiling out amid the angry storm-like the bright stars shining through the hioavy n. ght cloud-like friond clasping the hand of friend-like right rebutting wrong-like the lance of virtuo ringing on the shield of vico-like hoaven upon earth, and God in man, is Truth! Precious and Pricaless. Dearor than smile of friend, lore of parent, or pomp or fame. Truth is all. By this Wo know tho nature and value of things-Falsehood is s eraven, a dastard. Truth is bold, noblo, and God-given, beyond every' other attribute of the soul.--Hall.
Litcrature for the Young.-Tho question of engaging the atten. tion of the young, in favor of good literature is, .every was, a most difficult one-it has, at timos, quito a hopoless look about it-at all ovente, wo cannot bring ourselyos to deal in the cus. tomary common places about it. Every body is ready rith a 'What is wanted in this'-and yot, goodness only knows what is wanted. Wo should bo yery sorry to seo English editors sdopt the tricks that are common in Amorich-such as publish. ing photographa and memoisa of hittio boye at school who win
prizes, thus puffing the schools and turning a penny in that line, as woll as doing somothing to spoil the poor boys. Wo arc not aware that they havo yet got so far as publinhing pho. tographs of school-girls; but it is likely enough, for they freoly publigh the love afiairs-most fantastically conductod-of boys and girls of fourteon, and thoso with illustrations. It must bo rememberod tou, by those who think that the 'education' of the masses will make an immense difference in this matters, that the public addressed by these transatiantic poriodicala is better read and more 'rospectable' than the public who rould take in similar periodicals over here Yet it is not to be sup. posed that publishers, who think they see their way to much better things, who have large experience, and who have counted their resources, will stay their hands for any of the dismally discursivo considerations suggested by what we have seen.
For myself, I think the food of bad literaturo oould be vory materially checked by any compotent publisher taking a com. mon sonse view of tho subject and working it out with tho help of strong faith in human nature and in the general progress of society. Somo thinga are clear, and admitted on all hands. Literature for boys and girls, as distinguished from children, must bo forrard looking, and full of spirit and onterprise, and quick with the warm blood of youth It must be full of incident and picture, its motif must bo will and feeling mothor than iders. It must not be goody goody, and it certainly must not be irudish. Perfectly pure and modest, of courso it must bo must it must be gay and fresh. And the spirit of Dirino obligation and human service must be everywhore preeent though nowhere obtruded. When these conditions are unit-d in litterature, for growing boys and girls, and when really high class talent is brought to bear upon the production of such littorature, a better state of things will hare been begun. 3fuch harm has undoubtedly been doue by the diflusion of a false light, but this cannot be undone by excluding the people from all prospect of amolioration in their current litterature Nover, nover! The people, young as well as old, will be sure to read something; they will read what is offered to them The inci. tements to an insppeasable mental restlessness are como into the world. The porsers that amaken and foster the spirit of curiosity are to bo found in erery village; magazines aro in every cottage and hovel. The infant's cries aro hushed with picture loaves, and the cottager's boy sheds his first bitter tears over pages which go to mould his character for life.
-Contemporary Reciar.

Sjnopuls of Hitin aud Snow fall for 187s.
MCGILL COLLEGE OBSEMTATOMA.


To:al raintall during year was 23.82 inches.
Total snowiall during year was 115.7 inche.
Total zain and melted snon was 39.60 jacher.
fotal number of days on which rain fel. 112 .
Toral aumber of days on which snow fell, 88.
Tolal number of days on which rain and snow fell. 12.
Total nupber of days on which zain of spow sell, $i 28$.





## ABSTRACT FOR TIME MONTTH OF JMNEARY, 1876.

Up Th-Hochi Meteorological Onseriathons Taken at McGhle Coliege Obsenvitomy. Ieight Above Sea Level, 187 Feet.


- Barometer readings reduced to sea-level and temperature of 320 Fahr. i Pressure of vapor in inches mercury. it Mumalit! relative saturation, 100 . Observed. Ten inches of snow is taken as espual to one inch of water.

Mean temperature of month, 17,73. Mean of maxima and minima temperature, 18.03. Greatest heal was 51.0 on the 1st; greate:t cold was 6.5 below dero on the $13 t h$, -giving a range of temperature for the month of 60.5 degrees. Greatest range of the themometer in one day was 38.6 , on the 10 st ; least range was 6.4 degrees on the 9 th. Mean range for the month was 16.12 degrecs. Nean herght of the barometer for was 30.0186 . Highest reading was 30.763 on the 22 nd. Mean elastic force of vapor in the atmosphere was equal to .0935 inches of mercury Sean relative humidity, 78.1. Maximum relative humidity was 100 on the 19 h . Minumum relative humidity was 48 on the t1th. Mean relocity of the wind was 14.5 miles per hour, Greatest mileage in one hour was 46 on the 20th. Greatest velocity was 50 ml . p. H. on the 9 th. Mean dirction of the winl, West. Dean of skit clouded was 68 per ceat. Rain fell on 7 days. Snow fell on 16 days. fain or snow fell on 90 days. hainfall, $1.8^{-}$inches. Snow fall 27.4 inches. Tutal precipitation in inches of water was 4.61.

[^1]
[^0]:    - "Grammar itccording to the Macean System ; or, a loumey to Grammarland." Adapted from the Firench, by Pere et Fille.

[^1]:    Printed by̆ Léger Brousseau, 9, Buade Street, Quebec.

