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# The Canada Schoui Journal. 

Vol. XI.
TORONTO, NOVEMBER 15, 1886.

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## THE CANADA SCHOO JOURNAL

1/s thiscational Journal devoted to Luterature, science, Art, and the adountement of the teaching $\mu$ rofersion in Canaia.

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CANADA SCHOOL JOURNAL PUB. CO. (Limited), Offies: Toronto, Ontario.

The attention of teachers is invited to the article on "Discipline as a Factor in Schoul Wurk," by Dr. Wickersham, commenced in our "Special" columns in this number. The subject is comprehensively treated by one who is evidently enuted to high rank as a thinker, as well as educator. This, when completed, will be fullowed by Mr. Wetherell's paper on "Conservatism and Reform in Educatuonal Methods," and other good things still on hand from the Teachers' Association.

In Ieicester, Eingland, a mon was recently sentenced to fourteen days' imprisonment, with hard labor, for fraudulently obtaining remission of school tecs by stating $t$ ' at he was out of and starving when he was actually in the receipt of 2 ofs. to. 36 s. a week The case suggests a gnud many reflections wi'h respect to the workings of the iee system to which so many in England cling so tenaciusily. Amongst uthers the question arises how the system which tempts to such dishonesty and involves punishments so demoralizing, can do so much more for preserving the independence and self-respect of the lower classes, than the above board free-school system.

We are receiving many words of approval from our patrons, which are both gratifying and encouraging to us, and which show that the Canada School Journal stands high in the appreciation of educators of all classes. The Superintendent of Schools in Springfield, Ill., himself the editor of a live educational paper, in soliciting an exchange, says: " I regard your Journal as one of the very bestit have ever read . $\therefore$ I would appreciate the far ir not alone as editor but as teacher and superintendent." :are still studying to mprove the Journal, and intend that it : 11 not only hold the high place it has ittained, but shall move steadily onward and upward. The Journal has an ambition, which we hope is not an unworthy one, to be primus inter pares.

It was in the latter days of the Second Empire that M. Victor Duruy was inspecting a school, the show boy of which was called upon by the master, in compliment to the Minister, to mention tho pincipal glorites of the Empire. The boy glibly auswered, "The Mexican Expedition and the Crédit Moblier." The Mexican Expedition had then failea, and the Crédit Mobilier had collapsed. The boy, who was suyposed to be at budding Republican indulging in impertnence agaiast the Empire, "as promptly taken aside and punished. On reference to the authorized text-book, however, it was found that he had simply repeated what was thero set duwn. Our schonl text-bouks are i. : compiled under the influance of an Empire, but they are occasionally compiled under other influences; and their availability as engines of propagandism has not been entirely overlooked.-The Week.
Having gone so far The Weele should go a litile farther and point out how and for what our school text-books are being made engi,九es of propagandism. It seems hardly fait to insinunte the charge without some preof. Moreover, The Week would be duing a journalist's duty and a service to the public in exposing any such abuse of trust by our text-book makers.

The Berlin Nezess strongly condemns the too common practice of Trustees who, in order to save fifty or a hundred dollars a year, discharge teachers of skill and experience and employ embryo doctors, lawyers and ministers in their places. This is to put a premium on novices, and discourage competent workmen. We hope the Neaus exaggerates when it says that threefourths of the number of young tcachers have not the slightest idea of remaining in the profession for more than two or three years. It makes a good point, and one too much lost sight of by both parents and trustees, in the following: "It may be regarded as an axiom that a teacher cannut become acquainted with a schoul in less than a month. Equally true is the asseltion that a schoul receives very poor attention durirg the last month a teacher remains in office. Thus we have a loss of nearly two munths pay owing to the short-sighted policy of trustees." These arc considerations that would have much weight with a business man in engaging employes for any kind of work requiring skill and knowledge.

Francis H. Huwakd, in a good article in the N. E. Journas of Education, on the question, "Can Citizenship be taught in
our Public Schools ?" say's: "The foundation principle of the moral responsibility of each for others may be inculcated from the very first. The youngest pupil may begin to feel that his good or bad behavior has its power to aid or hinder the aggregate good of all. He may be made to comprehend that even if he choose to do wrong and take the consequences, he yet owes something to his companions, and that his individual pleasure does not always constitute an individual right. Too frequently the aim of education has seemed to be the development of the individual as an integer, rather than a part, and too frequently the question of right doing has seemed to be but a blind obedience to a promulgated law. If the boy can be trained to feel that on him is placed, to a certain degree, the responsibility for the good behavior of his comrades, he has taken a long step in the path that leads to good citizenship and intelligent voting." The point is well taken. The child cannot too soon be taught that he lives in a world in which, whether he will or no, all his conduct has a bearing upon the welfare of others. Not even a school-boy can "live unto himself." It is impossible for him, however earnestly he may desire ji , to divest himself of his relations to others, or to escape responsibility for the duties growing out of those relations. To impress this truth upon the mind, in its practical aspects as presented in the microcosm of the school, or the family, is one of the most effective modes of developing the conscience, and so giving that moral training the need of which is so much felt in these days.

We hope every teacher has read carefully and thoughtfully Mr. McHenry's able paper on the system of prize-giving. As we have said before we concur heartily with the views of the essayist in regard to the main point. So far as the giving of prizes and scholarships on the large scale at present adopted in Toronto and caher universittes, or, in fact, on any scale whatever, is concerned, Mr. McHenry's logic is unassailable. No one of the ends aiined at, or at least of the ends that should be aimed at, is, as .Mr. McFenry shows, surely reached by these methods.

Tue subject of motives upon which Mr. McHenry touches briefly but effectively, is one worthy of the deepest consideratuon. In it is involved, to a very great degree, the iexed yuestion of moral trainng in the schools. "As a man thinketh in his heart, so is he." The mutives determme the character. Place a boy or girl, young men or women, during the most susceptible and plastic years of life systematically under the influence of selfish or sordid motives in the discharge of their dally duties, and it is utterly unreasonable to look for noble character as the outcome. It should, of course, be borne in mind that one mutave may be lower than another without being necessarily wrong or vicious. Emulation is, as the essayst intumates, in its proper place and usc; perfectly legitimate. As the result of a good deal of thought and experience during a score of years of teaching and school management, the writer evolved for his own guidance a set of rules something like the following :

Never, under any circumstances, appeal to a motive believed to be in itself wrong or bad.

Amongst legitimate motives, ahways appeal to the highest which can be nade effective in the given case.
Strive constantly to bring to bear, in the case of individual: pupils, notives in an asceinding scale, passing from a lower to a higher as soon as the higher can be made available.
Every thoughtful parent and teacher knows that there are stages of intellectual and moral development at which the higher class of motives, such as a sense of duty, love of study, desire for usefulness, etc., are wholly inoperative. , Fear, a very low motive, may be the only one effective in certain cases. In such cases it may be right to begin with, but degrading to continue. It will be superseded or discarded by the skilful parent or teacher at the earliest possible moment, and, as a rule, we believe that moment, under right influences, will come very soon. The hope of reward is a better one, and may be the best, in many cases, during the earlier stages of school life. So the desire to excel, the desire to please, the sense of duty, the pleasure attending the exercise of mental power, love of knowledge, love of others, etc, should foliow. It is unnecessary to add that the operation of this principle would utterly discredit prize-giving in high schools and colleges.

> A "Professional Man," writing in the Truro (N.'S.) Sun, says :
"In consequence of the excceding low salaries given to teachers In these Maritime Provinces, it is a fact.that when young men find themselves school-teachers, they aro compelled to step on to some other profession in order to make a living."
We fear it is a fact in other than the Maritime Provinces. When will parents and trustees learn that to pay salaries too low to keep good men in the profession-and they are often good men, though not the best teachers, who step out and upis the worst economy? No one who is making his teaching a stepping-stone to some other profession can do his best work. One year with a wide-awake, enthusiastic, stimulating teacher, whose whole heart is in his work, is worth more to a child than three under cue who is a mere hireling, a "routine". man, whose best thoughts, if he has any, are given to something else than his pupils and his work.

A GOOD deal is being said and written just now about the. evil involved in the turning away of so many young men in the country from farming and other industrial pursuits to city and professional life. The mistake is certainly a great and disastrous one. But those who are throwing the blame upon the schools, and crying out against the "overeducation" of the days are, we are persuaded, on the wrong scent. The source: of the evil lies farther back. It is in the false notionsand restless ambitions of the age. It may be true that there is something in the education gained in our high schools-and colleges which begets a disrelish for farming, as too generally carried. on, and with the assjciations which now surround it. But the true remedy is not in less education, oput in improved farming and country life. Agriculture, hanticalture, stockraising, etc., are really scientific pursuits. Why should they
not be raised to their proper ran'., and boys educated for them and led to look forward to them as their. life-work?

Divested of their associations with lives of unremiting, grinding toil, these may and should take place amongst the most delightful occupations. Toilsome they must always be. But hard work is the condition of success in any modern sphere of activity. There are, of course, some cases in which boys seem to be constitutionally lazy. They were "born so," and their natures are not easily changed. But we do not believe this is the case with the average healthy young man. It is not the hard, but the incessant toil he dreads; not the pursuit itself, but its concomitants of rough fare and uncongenial surroundings, from which the boy who has got some roused ambition and literary tastes recoils. With the laborsaving machincry of these days, by which one man can do the work of several, there should be no need, except, possibly, at special seasons, for the long hours which were a necessity to our fathers.

Thrre is, it must be admitted, something in the tone and atmosphere of our upper schools and colleges which is unfriendly to rural life and pursuits. It is too generally assumed that those who are enjoying these advantages are fitting them selves for some less fatiguing, more remunerative, and, above all, more genteel occupation. This is wrong. The moral influence of the schoois should be on the other side They should aim to impart truer conceptions of the dignity of labor, and, above all, of tilling the soil. The land is the source of all our wealth. To develop its rich resources to their utmost, to contend with the many unfavorable conditions and the numerous enemies which attend the growing crops, is a work demanding high intelligence as well as muscular strength and unfaling vigilance. Poets and men of refined and elevated natures have always delighted in the sights and sounds, and often in the occupations, of rural life. It would seem as it but a higher scandard of taste were required to make farming one of the most popular and fashionable, as it is one of the most independent and healthful, of pursuits. Teachers and professors shoulu do much to cultivate this taste. Above all, they should constantly uiseountenance the narrow notion that education is valuable only or cniefly as a preparation for some "soft" situation, or professiun, or as a means to any end outside of the man himself. Culture is its own end. It should be sought primarily, and, as far as possible, by every incipient man and woman, because it is a condition of the highest manhood and womanhood.

Stili, and in spite of all teachers or parents can do, tiuere will always be a tendency on the part of the ambitious youth of the country to seek fame and fortune in the great cities. Well, why not? We want no caste notions in this hemisphere. The old customs that bind down the children to follow in the footsteps of their parents, so far as their life-occupations are concerned, are happily obsolete herc. It is better so. We have no wish to revive them. Circulation is good. It prevents stagnation, restores equilibrium, and carrics with it reviving and
stimulating influences. It the farmers sons all remained on the farms, if tradesmen's children adhered to their fathers' trades, and business and professional pursuits were kept as preserves for the families of those engaged in them, the wheels of progress would soon begin to drag heavily. Deterioration is rapid in the cities. The infusion of fresh blood is as necessary to maintain vigorou; life in scientific, professional, and business circles, as the atmospheric movements which save the congregated thousands from being poisoned by the foul gases they generate. The true philosophy is to keep the circulation complete, the movenent reciprocal. For every stalwart youth the country sends to the city, the city should send back, at least, tiwo of its punier products to find life and health in the country. Let doctors and lawyers, men of science and men of business in the ctities educate their sons and daughters for rural pursuits. In numerous cases they are best fitted for this. Let the waifs of the streets be trained in industrial schools and fitted for iives of honest industry on country farms and in country workshops. Thus will the balance be preserved, the fitness of things be consulted, and the best results accomplished.

## THE COMING CANADIAN RACE.

In an address to the Young Liberals of Seaforth a week or two since, Sir Richard Cartwright quoted the following panegyric pronounced upun Canada by Mr. David Wells, the distinguished American economist :
"North of Lakes Erie and Ontario, and of the River St. Lawrence, and east of Lake Huron, south of the 40 th parallel of la citude, and meluded mainly in the present Dominiun of Canada, th res is as fair a country as exista on the American continent-uearly as large in area as New York, Pennsylvania and Ohio combined, and equal, if not guporior, as a whole, to those States in agricultural capability. It is the natural habitat on this continent of the combing wool sheep. It is the land where grows the finest barloy, which the brewing interest of the United States must have if it ever expects to rival Great Liritain in its annual export of eleven millions sterling of malt producth It raises and grazes the finest of cattle, with qualities specially desirable to make good the deterioration of stock in other sections, and its climatic conditions, created hy an almost encirclement of the great lakes, especially fit it to grovo men. Such a country is one of the greatest gifts of Providence to the human race; better than bonanzas of silver, or rivers whose sands run gold."
Commenting upon this fine tribute to our national resources, Sir Richard goes on to describe the kind of men and women he thinks such a country ought to produce, as follows:
"I want to $e=\mathrm{m}$ m countrymen use their great advantages to develup thems 3 lves into the finest men, and my countrywomen into the fairest won'en, not only in North America, but in the whole. world. If we annot have quantity, let us make up fur it in quality, and so I would like to see overy young Canadian not only able to do a good day's work, but also able to think and speak and act for himself. Able to shoot and to swim and to ride, and to enjoy camp life in the open air. At lome equally on the farm or in the workshop; in the library and the debating-room ; in the gymnasium and in the glee club-aud in my lady's parlor. Briefy, I would have ing young. Canadan countrynien so train and educate themselves as to gruw into men worthy of inhabiting the land Mr. Wells so eloquently describes; and my young Canadian countrywomen so train and cducate themselves as to fit chomselves to be helpmates and guarda. as and household angels for such men, and yet, withal, continue to be true women still.

> "Creatures not too bright or sood,
> For human nature's dally food,
> But pericct woman, nobly planned, "

Had the address been spoken to a convention of teachers,
instead of to a political club, the quetation and the comment would have been no less apposite. It is no too much to say that vith the members of the teaching proiession, to a greater degree than with any other single class of workers, it rests to determine in what measure the typical Canadian of the future shall attain this and even a higher ideal. It is $\cdot$ yet too soon for the Canadian type to be fully developed. But it is coming, and coming soon. Very few generations can pass before the word "Canadian" will mark a species of men and women dic.,nguished by marked differences of form, feature, and mental characteristics alike from English, Scotch, Irish, and American ancestors. Mr. Wells's truthtul description of the physical condition-the habitat of the new race shows that it should be inferior in physical development to none under the sun. It behooves all true patriots, and, above all, the teachers, who have so much to do with forming the minds and morals of the next generation, to see to it, so far as in them lizs, that the Canadian type shall be one of the noblest. The stock is of the very best. The Anglo-Saxon blood flows in the veins of the great majority, and in the stimulating atmosphere of the New World it flows faster than in that of the Old.

We should like to add a touch to the portrait of physical and intellectual vigor which the orator has so well drawn. The highest part of the character has been omitted or too lightly sketched. Something nobler and rarer, too, than any of the qualities named is indispensable to make men and women of the highest type. The foundation of all manly and womanly excellence must be laid in the moral nature. Where this is dwarfed and stunted, where it falls short of the highest development, there can be no true symmetry, no genuine nobility. Is the consctence clear? Does the sense of right sway all the other faculties? Is the whole inner nature sensitive to the lightest touch of moral obligation? Will the coruing Canadian fear God and love righteousness, and hate iniquity in every form? Will he be pure-minded, and unselfish, and largehearted? In this direction is to be found the true touchstone of noble character.

## Spccial.

## discrpline as a factor in the work of the SCHOOLROOM.

## BY DR. J. P. WICXERSHAM.

(Read before the Pennyslrania Teachers' Association).
The work of a school may be roughly divided into two parts; first, instruction, and second, discipline. Instruction as we are thinking of it, consists in imparting knowledge and in conducting those educational processes which produce intellectual strength and culture. Discipline in the sense now intended includes both those influences which secure order in a school-room and thuse forces which tend to awaken and develop the moral naturo of the young. In the first, the teacher appears as the builder-up of the mind, an instructor; in the second, as an executive officer administering a system of government.

An end of school discipline is order ; but this is the least important of its ends, which comprechend in their fullness the high purposes of forming character and ghaping life. The custom has been even among the teachers of wide reputation to look upon the discipline of the school rather as a means than as an end. Children in school, they hold, must be orderly or'their studies will be interrupted and their progrem in learning alow. This view in
partially corres, but in our conception it stopa at the very beginning. A chi'd attends school cortainly not move to learn reading, writing, arichmotic, and other branches of knotiledge, than he doei to recelve proper nuoral trainng. Habite ake those of order, obedience, industry, politenoss, if thoy can oe acquired at school, and great principles such as honior, hones'.s, truthfulness, justice, charity, if they can bo mplanted in the youthful mind, surely outweigh in oducational value any nmount oi what is called loarning. And as discipline in schols well directed can do much to form moral thabits and instil moral principles; it 18 not only the handmaid and helper of instruction, but has an end of its own quite radependent of all others. Instruction seekr. ford for the intellect, discipline looks to the forces that control the feolings and the will ; instruction busies itself in storing the memory with facts, in furnishung the understanding with principles, and in conducting the imagination through fields of beauty; discipline searches out motives, looks down into the human heart to find and mastor its springs of action. good or bad; instruction is pleased with fine rectrations, jood examinations, and graduates that staid at the head of therr class; diucipline demmadis conduct unioxceptionable, character well formed, and a sold foundation of true manhood with whici to go forth to meet the future ; instruction makes scholars, discipline develops men. In this broad sense I propose to speal: oi discipline as a factor in the work of the school, supposing that the subject is of peculiar mportance in this country at the present tine.
As applied in the school-room, distipline issumes several different forms which admit of classification. There in a furm which miay be callod the discip'ne of force ; anot $\dagger$ cer, the discipline of tact ; third, the discipline of consequences; quid a fou:th, the discipline of conscience. Theiy differ somewhat in aim, Lut materially in method. As a whole they cover the subject historically, if not philosophically, and light must be thrown upon the ncst delicate and difficult work of the school room by their discusion.

1. The discipline of force. If is a school, order alone be aiment at, by far the easiest and most summary way of securing it is by means of force. With the authority he vossosses and his superior physical strength, a teacher can readily nnopel his pupils to sit motionless at their seats. They may not study, but they can be forced to remain still: Under such rule quiet will resgn supreme. all disorderly conduct, all mischtevous trieki, as well as all childish mirth and thouchtless noise, may be banished from the solioolroom. The deadening influence can be made to reach the playground, and all the exuberance of youthful spirit can be crushed out.
The school committees and school boards of the past, and a few who are not yet buried, have been accustomed to consider ability to keep order in : a school as the highest qualfication of a teacher. Such as these wanta man who can govern a school, master its rough elements, whether he can teach it or not. Their ideal schoulinaster is one who possesses strength and courage, a kind of Heroules. Of that moral power which masters with a look, a shake of the head, or a word of admonitioin, whose very presence conimands obedience, they have no conception. But'in fart, to ketp a school in order is the lightest of the teacher's tasks. A government of force is easily. administered. A policeman with his club ought to be able to keep ten thousañ children not only quiet but trembling ; a teacher with a rod and ruler certainly should have no difficulty with bifty.
Still, it must be acknowledged that a discipline of Sorce is the time-sanctioned method of governing a school. The sichool in allages, whenever and wherever described, reveals to us the rod, the ferule, the ruler, the strap, and othor libe implements for punishing refractory children. No historic records reach back beyond the time when some form of bodily torture was not resorted to in school to preserve order. The use of the rod was common in the schools of Greece and Rome, and the wise Solomon thought it essential to the right bringing up of childreitin Judea. An old schoolmaster in Swabia, in a service of fifty-three years, according to his own faithfil statement, administered 911,500 caninga, 121,000 floggings, $: 209,000$ custodies, 10,200 ear-boxes, 22,700 tasks, 136 tups with thn rule, 700 boys to stand on peas, 6,000 to kneel on oharp edged wood, 5,000 to wear the fool's cap, 1,500 to hold the rod-in all, 1,282,036 cases of punishiment. "Many a white and tender hand," saja a writer in the 'pectator, speiking of the Etoin School, England, "which a fond mother had passionately kissed a thousand and a thousand times, hàve I seen whipped until it was coviered with blood ; perhaps for smiling or for going a yard and a half out of the gate, or for writing an ofor an a or an a for an o." In this country, whippings and other forms of corporal puniahment have been in use almost univernally as a means of achool
governmont; and oven now we hear of cases in which n teacher finds it necessary to use the rod or ruler ten or twonty times a day.

Upon an invostigation made recently by a school board in une of our must enlightened States, it was fuad that a teacher in their omploy was accustomed to whip his pupils for the folluwing offences, as well as for those of a graver character : whispering, looking off the buik, mas-spoling wurds, nut standing in hae, nut fuldag ams, making faces, shuffling feet, and throwing paper balis.

It may as well be plainly said that this whole system of corporal punishment and bodily turture as it has been applied in the schuulrum is fur the must part unuecessary, abitrary, and demuraliang. Order can be secured by its means, but too often at the sacritico of all that is beat and noblest in the nature of a chald. It marks a stage of darkuess and barbarisan an the art of bringing up children out of which we shuuld have lung since emerged. And yet the young must be taught to obey-thear welfare, ther success in life, the well-being of society, depend upol. it. A schuol can not be suffured to run riut. Order, wbedience, respect fur authurily, are lessons much needed by the American people, and must be taught at all hazards in the family and in the school. If to "spare the rud" is to "spull the child," the rud should nut be spared. Better a government of barbarism than no government at all. But to the true tercher no such sad alternative is presented. He may hold in reserve a certain degree of furce, but be seldom finds occasion to use it. His schoul is urderly, his pupils wey hum, but it is through love, not fear. He inds the worst that is in the buyg yields more readily to the softemng influences of kindness than to the hardening influences of punishment. The discipline of furce nimy be necessary to teachers who are less skilful or who move on a luwer plane, but to him it seems ill-adapted to its purpose, and often brutalizing in its effect.
2. The descrpline of tact. That is a discupline of tact which preserves order in a schoul-room and promotes a healthy moral growth among the pupils by nice maragement. In contrast with the kind of discipline just spuken of, it substitutes strategy for force. A tidy schuol-r..in is a constant munitur. Order in arrangement of the furniture teaches in a most impressive way the lesson of order to the pupils. A world of school-room trouble may be avuded by nice management in seating the children, in callong out and dismissing classes, in opeming and clusing schowl, in hearing recitations, in giving help, and assigning lessons. Plenty of work, right in quality and quantity, is a panacea for a multitude of school-roum ills. The pent-up mischief of a schuol may be easily converted into the monocent sports of the play-ground. Strict impartiality in his administration, on the part of the teacher, a well balanced sense of justice, skill in his wurk, wallingness to do his duty, and love for children, will in themselves render sculdings and whippings almost unnecessary. If in addition the teacher have that keen insight into human nature which enables him to see the cuming evil in embryu before it breaks furth and to guard aganst it; if he have that rare skill which can discover and direct, when likely to go wrong, the currents of feeling that ebb and flow in the schoul-room and constitute its life, he will want hittle else to make him a happy monarch on a peaceful throne.

But a few examples of the tact which avoids the causes that render so many school-rooms scenes of disorder and hard feeling will serve to illustrate and impress the subject. Two garls sit tugether in a school and are great friends. But their tongues are set luose, and they cannot resist the temptation to taik, and sometimes they talk loud. The teacher cautions them without effect. Shall he punish them 3 Thousands of children have been punished for a less offence. Better far to separate them until they amend them ways. A reading class is accustomed to read by turns frum head to foot. Shrewdly counting the paragraphs ahead, and marking the place Where they must begin reading, the boys at one end of the class talk and play tricks, while thuse at the other end are engayed in reading. I have seen a whole class pumshed for this kind of mischief. But how easily the evil is currected by changing the methud and calling upun each une prumiscuuasly. The remedy will prove magical in its effects if the teacher is sure to call 'upon the first boy whuse eyes leave the bouk. A stabburn girl une day, when told to go to the blackboard and solve a problem, refused outright to do so. She had been accustomed to work her arithmetic on her slate at her seat, and was de cermined not to conform to this new method of recitation. A teacler withuut tact would have used force, committed a blunder, mad, an enemy. But her teacher, knowing her disposition, simply piuceeded with the recitation as if nothing had happened and allowed her to keep her seat unnoticed. As the teacher well kaew, she culli not bear to be left alune-to be
ignored, and by the time the next lesson ras to be recited she was ready nut only to go to the blackboard with the other members of the class, but to apolugize to the teacher fur her improper conduct.

At a certain heademy in Pennsylvania, on Hallowe'en, a wagon belonging to the school was laboriously taken to pieces by some mischievous students, carried to the roof of the building, and after beang recunstructed was left astride the apex. Noxt morning, as may well he supposed, the wagon was the talk of the school and the neighborhood. Hundreds gazed up at the unusual object, and wondered how it could have been got up and how it cuuld be brought duwh. A cunvulsion was expected at the murning upening exercises, but the principal looked oven mure good-natured than usual and sadd nothing. But with that insight into character for which ho was famus ho quetly watehed the actions of the students during the day, and by evening when the school again assembled he was confident he could name the parties who had taken the most promment part in the trick that had created so much astonishment. So he sad in a pleasant way that sume mgenivus persons had placed his wagon un top of the house, and as he wanted to use it he would hike to have help in getting it down. He was sure any of those present would lend a hand. But as a special cummittee, he woald appoint A. B., C. D., E. F., G. H., I. J., naming those who he knew had been most active in the work of the night befure. A laugh rippled over the hall, followed by a cheer that nearly shook the buldiny. The principal had a knowing look, but said nothing further. The boys named took of their coats and mounted the roof, and the wagon was soon in its old place under the shed withvat a break, and all was peace. Huw admirable the management ! How effective the cure!
The principal of a boarding school in the State of Maryland was an adept in raising and fattening pigs, as well as trainng boys. One seasun he happened to have an exceedingly large and fine pig which he fed himself, and in looking at and admiring which he spent considerable time. On one of rhose occasions when the very air seems to breed maschief, the idea came into the heads of certain fun-loving buys amung the students to dig a hole in the neighboring field and place the pig in it. How the thing was managed no one has told, but when morning came tho pen was empty, and some hundred yards away there was a hule in the ground five ur six feet deep, with the prufessor's favocite pig, dazed as much as a pig can be, at the thattom of it. The whole school visited and revisited the spot during the day, and the wonder continued to grow as to what would be dune in the case. When all wero assembled in the evening, the professor remarkea without the least show of anger that one of his pigs in whose physical growth and intellectual improvement he had taken considerable interest, hau been placed by sore enviuus or less-gifted persons at the bottom of a hole in a field near by, as most of them were aware, and he supposed the best thing to do, although he was sorry to do it, was to bury him there He had therefure provided sume shuvels and wuuld ask some of the strongest boys to assist him in the work. The shovels were soon in the hands that had handled thism before, and the whole school with some outside spectators was quickly drawn to the spot to witness the curious ceremony. The dirt was thrown in rapidly, and still more rapidly ; but to the astonishment of most of the lookerson, the pig readily shook it off and trampled it under his feet. The hule was soun half filled, bat the pig was still erect and seemingly withuut any notion of being buried. In went the dirt faster and faster, but up went the pig with it until his white, fat back began to appear above the surface of the ground, when the whole crowd, beginning to sce the joke, broke into laughter and cheers, until the happy porker with a satisfied grunt stepped out on solid ground and marched triumphantly towards his customary sty, where the professor with face wreathed in smiles was already awaiting him with his evening meal.

Between the ordinary treatment of such cases and fine strategy like this, there is as great a contrast as there is between the rude pictures of a comic almanac and the divine creations of a Raphael ur an Angolu. Eren if the incidents mentioned did not happen just as related, they serve to illustrate the kind of school menage ment which flanks dufficulties that are too iormidable to be attacked in front, which turns evil to good, which makes one principle of human ature serve as a checkmate to another, which governs by a finor, higher, more effective power than force-tact.
3. The discipline of conscquences. As in the moral government of the universe, punishment follows wrong-doing as a consequence, so the same principle may be applied in the government of the school This is what is meant by the discipline of consequences. Without attempting to exhaust the subject or to define its exact limitations,
it may be said that God's system of discipine as administered through the laws of nature provides, on one side, that punishment invariably follows wrong-doing, that different degrees of wrongduing are punished in proportion to their magnitude, that different kinds ot wrong-doing have different kinds of punishment, and that all unishment is connectod with wrong doing as effect to cause; and, on the other side, that reward invariably fullows right-doing, that lifferent degrees of right-dning aro rowarded in proportion to their merit, that different kindt of right-doing have different kinds of revard, and that zeward is connected with rightdoing as effect to cause.
It certainly cannot be necessary to onter into a lengthy argument to prove the general truth of these projositions. Here at least only brief mention can be made of the ground on which they rest.
We all know that we cannot do wrong without suftering punishment, and if we do right we will recoive our rainrd. Some circumstances in our experience might lead us to vestion this conclusion, were it not that our reason tells us that a broader experience must verify it. Otherwise, the mural ur. verse would be a chaos and God himself would be unthroned.
If wrong-doing and right-doing are a matter of degrees, the principles of eternal justice require that purishments and rewards should be graded accordingly. Even human laws and human justice recognize and apply this principle.

A man morally bad may be physically strong, heal.hy, rich or prosperous. A pious missionary on his way to introduce Christianity into heathen lands may embark in a leaky ship and be buried in the sea, while pirates in a staunch one incur no danger. The young, the beautiful, the promising somethes suffer and die, while many who become a curse to society aro allowed to livo on prospering in their evil ways. The plague dues no stop to spare the good man's house that lies in its dreadful path. And yet God is just, much that seems unjust boing accounted for by the it ' e pendent operation of the different hinds of natural laws. Physi- I laws have their own rewards and punishments; so have moral laws. The former can be obeyed, and tho latter can be violated, or the reverse.

All natural punishments and all natural rewards are the effects of causes to which they are linked by chains of adamant. When a physical law is broken the penalty must be paid; obedience to such a jaw is sure to meet with its reward. If a man eat too much, he will get dyspepsia ; if he indulke too frcely in strong drink, he will die a drunkard; if he holds his hand to the fire, it will hurn; if he jumps from a house-top, he may break a limb or lose his life. In the case of broken moral law the consequences are different, but not less certain. The liar, the slanderer, the hypocrite, the thief, the murderer, in addition to the penalty they are apt to pay to violated human law, carry in their own bosoms the bit' er sting that avenges their wrong-doing, or, if too callous to feel it, that hardness is in itself the most terrible of punishments. The prodignil wastes his substancé, and must live on husks; the sluggard will not work, and "in harvest has nathing ;" the miser gloats over his gold until his soul shrivels up, and tho hardened sinner converts his very heart to stone, and dies, worse than a brute.

In principle, Nature's discipline of consequences may be introduced into the school-room. Bad conduct may be punished and good conduct rewarded after the manner of what occurs under the Divine order in the world about us. It would be easy.at least to substitute for the arbitrary punishments that have disgraced school government in all ages, a eystem that would go far towards meting out to each offence a natura! puniohment properly adjusted to it in kind and degree. What is to be thought of the moral effect of that kind of school discipline which whips a child or assigns him some disagreeable task for breaking a pane of glass, vpsetting an inkstand, or coming late to school? Is the ruler or roc the proper punishment for a child who loses his book, misses his lesson, talks too loud, or pushes a school-fellow off the end of a bench? Did you ever know an instanco in which by any form of bodily torture a lazy boy was made industrious, a quarrelsomo boy peaceable, a mean boy honorable, or a mischiovous boy quict and urderly? The time has coma for such a reform in school disciplineas will free it from its arbitrary, illogical character and make it better accord with a sense of justice.
(Concluded in next issue).
Frank H. Cushing, of Zuñi Indian fame, has three Indians with him at his home in Massachusetts, assisting him in preparing a grammar and dictionary of the Zuñi language. Another subject for the schools!-Joumal of Education:

## Examimation 月apers. $^{2}$

EDUCATION DEPARTMENT, ONTARIO.-MID. SUMMER IEXAMINATIONS, 1886.

## TIIIRD ChARS TEACDRRS,

## ALGEBRA.

Examiner-J. C. Glabhan.

1. Divide
$\left(x^{a^{2}}+\frac{a^{2}}{x^{2}}-2\right)^{2}$
by
$\frac{a}{x}-\frac{x}{a}$.
-(Valuc 10).
2. Simplify $\frac{1}{4(x-1)}-\frac{1}{4(x+1)}+\frac{1}{\left(x-1 \frac{1}{2}(x+1)\right.}$.
(Value 10).
3. Simplify $\left(\frac{x+y}{x-y}-\frac{x-y}{x+y}\right) \div\left(\frac{x^{2}+y^{2}}{x^{7}-y^{2}}-\frac{x^{2}-y^{2}}{x^{2}+y^{2}}\right)$.
(Value 10).
4. Prove that $\frac{a+b}{a b}\left(\frac{1}{a}-\frac{1}{b}\right)-\frac{b+c}{b c}\left(\frac{1}{c}-\frac{1}{b}\right)-\frac{c-e}{c e}\left(\frac{1}{c}+\frac{1}{e}\right)$
is the difference of two squares. ( $\mathrm{V}^{r}$ alue 10).
5. Resolve into linear factors
$\left.{ }^{( } a^{2}+b c+c a+a b\right)\left(b^{2}+c a+a b+b c\right)\left(c^{2}+a b+b c+c a\right)$.
(Vaine 10.
6. Resolve into three factors

$$
(x+y)^{7}\left(x^{x}+z^{3}\right)-(x+z)^{2}\left(x^{2}+y^{2}\right) \text {. }
$$

(Fahta 10).
7. Show that there is only one value of $x$ that will make

$$
x^{3}+6 x^{2} c+8 x c^{2}+10 c^{3}
$$

equal to the cube of $x+2 c$, and find that value. (Valne 10).
8. Solve the equation

$$
\frac{x-1}{x-2}-\frac{x-2}{x-3}=\frac{x-5}{x-6}-\frac{x-6}{x-7}
$$

9. Sclve the simultaneous equations

$$
\frac{2 x-y}{1}=\frac{2 y-z}{2}=\begin{gathered}
2 z-u \\
4
\end{gathered}=\frac{2 u-x}{8}=15 .
$$

(Value 10).
10. Find a number less than 100 the sum of whose digits is 12 , and whose digits, if reversed, form a number which is greater by 6 than half the original number.

## DICTATION

## Examiner-Cornzluus Dunovan M.A.

Note for the Presiding Examiner-This paper is not to be seen by the candidates. It is to be read to them three times-first, at the ordinary rate of reading, they simply paying attention, to catch the drift of the passage ; seconl, slowly, the candilates writing; third, for review.

Maximum, 50 marks.
Of his intellectual character, the constituent and fundamental principle was good sense; a prompt and intuitive perception of consonance and propriety. ET siw immediately, of his own conceptions, what was to be chosen, and what to be rejected. But good sense alone is a sedate and quiescent quality which manages its possessions well, but does not increase them, and never gains supremacy. He'had likewise genius; a nind active, ambitious and adventurous, always investigating, always aspiring, always endeavoring more than it can do. These benefits of nature he improved by incossant and unwearied diligence; he had recourse to evory source of intelligence, and lost no opportunity of information. He read his compositions to his friends, and was never content with mediocrity when excellence could be attained. His method, as niay be collected from his translation, was.to write his tirst thoughts in his first worde, and gradually to amplify, decorate, rectify and refine them. Dy perpetual practice, language had, in his mund, a systematic arringeatint. Ho examined lines and words with minute and punctilious observation, and retouched every.part with indefatigable
diligence. He was nover elovated to negligence, nor wearied by impatience ; ho never passed a fault unamondod by indifference, nor quitted it in despair.

## PHYSICS.

## ExaminermJ. C. Gliasmas.

1. What are the chiof diatinctive properties of a solid, a liquid, and a gas?
"There is not the slightest difference in weight betweon a given quantity of water and the ice, or the steam, into which it may be converted." How could you prove this in any particular case, i.e. huw.cnuld you woigh steam? (Value 15).
2. "When anything is woighed in water it will suffer a loss of weight exactly equal to the weight of its own bulk of water." Describe experiments putting to proof the truth of this statement.
"What will happen if the substance be lighter, bulk for bulk, than water ?"

What practical applications are made of tho fact which you have just stated? (Value 18).
3. By what experiments could you show that air in motion pussesses energy?

What practical applications are made of this fact? (Value 12).
4. "The phenomena of heat are the effects of a rapid motion of the particles of matter." Give some reasons for so believing. (Value 10̄).
5. Describe how thermometers are filled and graduated:

A long verticall lead pipo, closed at the lower end, is nearly filled with water. Builing water is placed on the outside of the pipo, almost immediately the water inside the pipe begins to sink. Why does it do so? Aiter a tine (the boiling water still pouring on) the water begins to rise in the pipe. Why does it do so ? (Valuc 20).
6. "You have now learned what the electric current can do." State briefly what it can do and mention some practical applications of each of these powers. (Value 20).

## LATIN GRAMMAR AND COMPOSITION.

## Examiner-J. E. Hodason, D!.A.

1. (a) State the rules for the grammatical gender of nouns of declensions II. and IV. (Value 2).
(b) Give the gender and the genitive, singular and plural, of : -eques, exescitus, faber, fortis, funis, impetus, jus, letus, lis, nutus. (Value 10).
2. Mention any peculiarities in the declension of :-filits, filia, locus, plus, nihil, ullus. (Valuc 6).
3. Give the other degrees of comparison of :--sacpe, repente, prope, posterits, plus, exiauts. (Value 6).
4. Give the principal parts of :-occido, occurso, nolo, negligo, meto, moror, levo, nascor. (Value 8).
5. Analyze the following words, and account for their meaning therefrom:-affigo, biduum, coerco, commeatus, coram, debeo, dimitto, dimico, incolumis, ingens. (Value 10).
6. Decline the following combinations:-fortis sermes, tota urbs, omnis injutria, bina castra. (Value 4).
7. Translate into Latin :-
(a) The bravery of our troops was worthy of praise. (Value 3).
(b) Return to Rome, my son, within eighteen days. (Value 4).
(c) Sorge were standing on shore, whilst others were rushing into the water. (Value 4).
(d) Cicero was again created consul during my absenco. (Valuc 4).
(e) The city was captured by the Gauls and burnt. (Value 4).
(f) Oin the same day the ambassadors whom the enemy had:sent to Cresar regarding peace, arrived at the camp and assured the distinguighed Roman general that their countrymen would peiferm his orders. (Value 10).
(g) In the consulship of Lucius Domitius and Appius Claudius, Cossar set out from wintor-quarters for Italy, as had been his yearly. custom, and ordered the lieutenants whom he had placed in command of the legions, to see to the building and equipping of as many new ships as possible during the winter. (Valice 15).
( $h$ ) When Cæsar had proceeded a littlo further, he perceived that his men were being hard-pressed by the enemy, who had occupied a superior position, and were hurling weapons from all directions. (Falue 10):

## Kractical.

## 'EDUCATION vs. SOHOOL ROUTINE.

If thers is anything the teacher should pray to be delivered from, it is the confounding of education with school routine. Not as bad as this is tho confounding of scholarship with mental developmentbut that too is bad. But routinism not only does not effect ducation, it actually hinders it. The teacher must wage a constant fattle with what many cunsider the end. Hawthorne describes the railroad to Heaven very charmingly; he tells about the stations, the engineers, and all that. The only trouble was that they could not get a deput in Hearen, and so it was not certain ihe passenyers ever arrived there. It was all good except this one point. Routinism makes a gathering of pupils beautiful to the eye; there are books, recitations, and all that, but it is by no means certain that the pupils are educated.

We visited a routine teachers' school once. We found her a little late that morning. She entered in haste in a few minutes, threw off her hat and called, "First class in reading, take your scats." Then secing there was a visitor, paused, and gave him a rather ungracious welcome. We begged her to go right on and she did. The impression left on our nind was the same as when a company of soldiors is drilled. It was no new thing. The teacher had made the same romarks before and probably a good many times. "You read too fast," or "You read too slow," or "You didn't read loud enough." "Spell distance, benefit, cordial, etc." And finally ended up with, "Take the next six verses, you are excused." And the other exurcises wore of the same nature.

It seemod to us that the teacher had not prepared for meeting her class; it was an old story-it was simply hearing recitations. Now a teacher who comes to school feeling that a routine of things is to be gune through with before she is free, is all wrong. She belongs to those pupils soul and body for a curtain period of the day, and the rest of the time she must prepare for that meeting, that encounter ; she may put the exercises that she will have into a fixed form-this is not routinism. It is not the routine that educates, it is the teacher. She must generate power, train habits, and cultivate tastes. But routinism does not do this, it prevents it. -N. Y. School Joumal.

## MARKS FOR CORRECTING EXEROISES.

X (through a word or figure) to indicate bad spelling or inaccurate work.
$\Delta$
to indicate the omission of a word, a statement, or an example.

- X
" thiat a wrong word or expression is used.
" a fault in grammar.
" words wrougly arranged.
- a fault in punctuation.
(surrounding a word) to mark that as correction the declension, or principal parts and tense of the word, must be written out.
(in the margin) meane that facts are mis-stated. " means that the pupil is to ask for an explanation in class.
$\pi$
(at end of an exarcis ) that the puil to end of an exercise) means that the pupil is to look at la
corrections and cosrect again.-N. Y. School Joumal.


## PRONONOIATION OF "U."

The Brooklyn Magazine says that "nmety-nine out of every hundred Northernors will say institoot for institute, dooty, for duty-a perfect rhyme to the word beauty. They will call now and news, noo and nnos-and so on through the dozens and hundreds of similar words. Not a dictionary in the English language authorizes this. In student and stupid, the " $u$ " has the same sound as in cupid, and should not be pronounced stoodent and stoopid, as so many teachers are in the habit of sounding them. It is a vulgarism to call a door a doah-as wo all admit-isn' it as much a vulgarian to call a nowspaper a noospaper? One vulgarism is Northern and the other Southern, that's. the only difference.

Whon the Lundon l'unch wishes to burlesque the pronunciation of servants, it makes them call the duke the dook, the tutor tho tootor, and a tube a toob. You nover find the best Northern speakers, such as James Russell Lowell, George William Curtis, Robort C. Winthrop, Dr. Phillips Brooks, and men of that class saying noo for new. Toosdav fur Tuesday, avonoo for avenue, or calling a dupe a doop. It is a fault that a Southerner never falls into. He has slips enough of nuother kind, but he docsn't slip on the long " u."

## A Chapter of "don'ts."

## N. Y. Sihool Journal.

Don't expect, when you receive a now class, to correct all the faults at once. Make a list of the more glaring, and attack one at a time, patiently and porserveringly.

Dun't fail to enter the class room each morning with a pleasant face, even if home cares are ! cooding ; the aching heart must not be manifest in the school-room.

Don't noglect to enter into a pupil's enjoyment. Laugh whenover you can, even if the ordor of the school-romm be somewhat interrupted at times. A teacher who aughs more than sho scolds is apt to have a greater hold upon her pupils.
Don't raise juur voice when incited to rebuke. A reproof is just. as effective in a low tone, while a control of the voice induces a control of the temper.

Don't dismiss a pupil with the echo of $a$ just recenved scolding in his ears. Detain him, if possible, till somuthing piensant has been said.

Don't call a pupil "stupid" if he does not understand your explanations. Want of attention should always be censured, but not watt of compreheasion. Throw a diferent light upon the subject, or alluw other lessuns to intervene, and then resume the ciearing up of the obscurity.

Don't discourage a pour pentan, by obligiug him to recopy has work continually. Find out his promment fauts-whelh wiil be, probably, improper spacing, want of uniformity in small letters, a neglect to bring letters to the line, etc., etc. Request him to copy his work with reference to some one of these particulars. Often the other faults will be corrected by reason of the care given to one.

Don't keep a class "ciphering" for hours. (N. B.-Ciphering means making nothings). Some teachers think that scores of examples must cover every exigency. Ofton it is better to furogo slate exercises, substituting reading and reasoning examples from the text-book.

Don't give examples yourself, as an invariable rule. Give class the terms involved, and ask members to frame examples. It 18 surprising to note the difficulty they find in doing so.

Don't give rules in gramuar to be memorized until pupils can furmsh illustrations meviving the rule. Then don't requare rules, for it will not be needful.

Don't give examples of false syntax, continually-better not at all. A pupil should learn that "I seen it" is wrong in the same manner that he learns it is wrong to speak crossly, or profanclylong before any rules or reasons are given.

Don't give long lists of lengths of zivers, populations of citics, etc., to be committed to memury. Confine yourself to requiring an enumeration of a very fow of the more important. It is of greater consequence to know what has caused a city to be pupulous than to snow its population.

Don't layany stress upon dates of battles, oxcept the very decisive ones. Give special attention to the cause and effect of the engagement, controlling and parallel events in other countries, and biographies of leading men.

Don't allow the raidng class to take its seat until it has extracted the "thought from the written page." Mere word-calling cam be as effectively accomplished from the columns of the spelling-book.

Don't think that good spellers can be made hy conning words in columns of spelling-book. The examination papers and compositions will show how many words in ordinary use are misspelled, yet such words are nut cummunly found un the text-buok. Ayam, how many of the words in the speller are not encuuntered, even in an extensive course of reading? Still less frequently duthey ociur in orduary conversation and writug.

Don't adopt the method of any and every teacher, as an infallible rule. Even the goud methuds presented in the Juunsal need modifying and adopting to suit tho cuncutios of the class, or the individuality of the pupil.

E, G, B, , Brooklyn,

## fior diviay afternoon.

## FOR DEOLAMATION.

This the part of a coward to brood
O'er the past that is withored and dead;
What though tho heart's roses aro ashes and dust?
What though the hearl's music be fled?
Still shine tho grand heavons o'erhond,
When the voice of au angel thrills cloar on the soul,
"Gird about theo thine armor, press on to the goall"
If the faults or the crimes of thy youth Aro a burden too heavy to bear,
What hope can tebloom on tho desslate wasto. Of a jealous and cravon despair?
Down, down with the fetters of fear!
In the strongth of thy valor and manhood arise,
With tho faith that illumes and the will that defies.
"Too late!" through God's infinito world,
From His throne to life's nethermost fires-
"Too late'" is a phantom that flies at the dawn Of the soul that repents and aspires.
If pure thou hast mado thy desires,
Thero's no height the strong wings of immortals may gain
Which in striving to reach thou shalt strive for in vain.
Then up to the contest with fate,
Unbound by the past which is dead!
What though the heart's roses are ashes and dust?
What though the heart's music be fled?
Still shine the fair heavens o'erhead ;
And sublime as the angel who rules in the sun
Beams the promise of peace when the conflict is won:
—By the late Pail H. Hayne.

## TRUE HEROISM.

## A STORY FOR REPRODUCTION BX PUPILS.

There are heroes among the pupils. Here is an instance among many that might be written:
Two buys were in a school-room alone together, and expluded some fireworks contrary to 'he mater's express prohibition. Tha one boy denied it. The other, B $3 n$ Christie, would nether admit a:or deny it, and was severely fl gged for his obstinacy. Whon the boys got alone again-
"Why didn't you deny it?" asked the real nffender.
"Because there were unly we two, and one of us must have lied," said Ben.
"Then why not say I did it ?"
"Because you said you didn't, and I rould spare the liar."
The boy's heart melted. Ben's moral gallantry subdued him. When school re-assembled the young culprit marched up to the master's desk, and said :
"Please, $s^{\prime}$, I can't bear to be a liar-I let off the squibs." And he burst into tears.
The master's eyes glistened on the self-accuser, and the undeserved punishment he had inflicted on the other boy smote his conscicace. Before the whole school, hand in hand with the culprit, as if he and the other boy were joined in the confession, tho master walked up to where young Christie sat, and said, aloud:
"Ben, Ben, lad-he and I beg your pardon. We are both to blame."
The school was hushed and still, as other schools are apt to be When something true and noblo is being done-so still that they might have heard Ben's big boy tears dropping on his buok, as ho sat enjuging the moral triunph which subdued himself as well as sill the rest. And when, from want of something else to say, he gently cried, "Master forever :" the loud shout of the srholars filled the old man's eyes with somothing behind his spo cacles which maile him wipe them befure he sat down again.

## Eincational dotes and Altos.

To lie to a child is to plant a weed in a garden of flowers.
In Bengal there were in 1880, 20 colleges with about 2000 students.
Tho Seaforth High School building will be enlarged and otherwiso improved.

The groat thing to be minded in education is, what habits you sottlo.-Locke.
The Dutton High School building will shortly be comploted and the school formally opened.
The Stratford Art School Board have secured the serviceg of Miss J. Denovan, of Toronto, as Assistant teacher.

The total number of lady students attending Mc(till University, Montreal, at the present session is sixty-six.
J. D. Mrkay, hitherto a student at the Elora Bigh Schoul, has been appointed principal of the Markham Public Schools.
There were seventy-one applicants for the position of headmaster of Kendall Grainmar School, recently vacant, in Eigland.

In 1879-80, 1201 candidates passed the examinations at the University of Calcutta, $149 \overline{5}$ at MLadras, and 650 at Bombay.
The Imperial University of Japan, at Tokio, cumprises five colleges, representing the departments of law, inedicino, engineering, literature, and science.

The Seaforth High School building will be enlarged and otherwise improved, a by-law to loan the Board 80,500 having been recentiy approved by the ratepayers.

The average wages of fomale teachers in Virginia (hundreds of whom are colored) are $\$ 26.88$ per month, against only 816.28 for white women in the schcels of Maine. - Nevo York Post.

There were in India, in 1880, about 70,000 government and private schools, giving instruction to nearly 200,000 pupils. Tho expenditure on government schools was upwards of $\$ 8,000,000$.

The Elgin County Teachers' Association is to hold its etth semiannual meeting in the Collegiate Institute, at St. Thomas, on the 19th and 20 th iust. A good programm's of exorcises is publighed.

At the request of the East Kent teachers, Mr. Dearness, of London, attended their convention in Ridgetown, and addressed a public meeting in the Presbyterian Church on educational subjects.

Charleaton lust its best schonl-house in the earthquake. The Craft school was built two years rgo at a cost of $\$ 20,000$, and was wrecked, it appears, solely on account of the mater tal used in its construction.

The Industrial Institut ind College of Mississippi is said to be the first institution und, r Stato auspices in the Union where girls can work their way through college and acquire joint elucation of héad, heart, and hand.

In arithmetic, one boy thought twice 5 made 11, because we carried one for every ten. Another wondered how if twice 11 aro 22, twice 10 could be 20, too. Another who was reproved for being so slow in multiplication replied that Carlyle said fools multiplied rapidly.-Teachers' Telephone.

The corner stone of the additional building to the Woodstock College, was laid October 29th, hy Mrs. MreMraster, of Toronto, wife of Senator McMaster. After the laying of the stone an excellent lecture on "Culture" tras delivered by Rev. Dr. MeArthur, of Calvary Baptist Church, New York.

The attondance at the Toronto free night schools is as iollows:Perliament, males, 147; females, 51. Bathurst, males, 138; Pemales, 35. Niagara, nales, 80; females, 20̃. Elizabeth, males, 70 ; fomales, 21. Bolton avenue, males 67 ; females, 34. Jesse Ketchum, males, 65. Mabel, males, 20. Total, males, 596 ; females, 166.

We are pleased to hear that John R. Sinclair, one of this year's graduates of our Collegiate Inastitute has won the First Year Proficiency Scholarship given by the Senate of Knox College to University atudents who purpose studying for the Presbyterian ministry after graduating at the University. The value of the scholarabip is $\$ 60$.

That is à poor recitation in which every pupil does not recite while each pupil recites. No explanation should go on by any pupil in which every fellow does not share as a co-partner. The teacher
will manage to this end. At any moment, the pupil reciting should be open to criticism, and liable to interruption by the teacher, who may take the answor out of the very mouth of that pupil, and ask it of any momber of the class. Evory momber of the class should bo just as much interested in the pupil reciting as is every nember of a base ball nine intorested in the man at the bat. True management of any recitation jwill make it just as exciting, and just as much fun as a base ball.game can possibly be. --Normal Exponent.
Teacher to littlo pupil :
I "Whore aro you going, Nellio?"
"Papa is going to taks us to Florida again."
"Can you toll what the Capital of Florida is?"
"Yos'm. It's thie money they get from boarders."
Out of about one thousand atudents who presented themselves for exnmination from the Liverpool centres in connection with the Science and Art'examination of South Kensington, upwards of two hundred were women. Two young ladies passed in maguetism and electricity, twelve in inorgenic chemistry, and two in agriculture. One lady, who passed the elementary examination last year in machino construction and drawing, was again succossful in-a moro advanced stage of the same subject.

Little Stuart has spent his first day at schoul.
"What did you learn?" was his auntie's question.
"Didn't lear mything.",
"Well, what did you do?"
"Didn't do anything. There kas a woman wanted to know how to spell 'cat' and I told her."
A member of the Stratford Collegiate Institute Board last week addressed a circular to parents, asking their views on the efficiencyof the teaching staff and soliciting suggestions as to any changes that nould in their opinion seem dejirable. a list of suggostive questions is appended for the parent to answor. This move is probably a new departure in the history of Canadian school boards, and bears on the face of it the stamp of a primitive simplicity.-Stratford Beacon.
The Board of Trustees of London, Ont., have imposed a fee of $\$ 40$ per annun upon pupils living outside the city limits. This virtually debars the inlabitants of East Midulesex from. High.School privileges. The question now is whether the inhabitants of this riding shall establish a High School for thomsolves, or accept a proposition which is under discussion to pay their share towards the maintenance of the London Institute, on condition that their children shall be adinitted at the same rates as those of the residents in the city.
From : hygienic point of view, corporal punishment is not to be oncouraged. When a teacher "thrashes" a pupil, he or she is generally in anger, and from this very reason, is not able to accurately guage the amount of force that is meted out. A sharp. blow on the ear has caused incuraile deafness, and it has more than once occurred that a boy or girl has been ruined for life by corporal punishment intlicted at school. We are pleased to see that this method of correction is deprecated in the last report of the Massachusetts School Board; wherein it is stated that "a teacher who finds it necessary to use corporal punishment to any appreciable extent, gives evidence of a want of ability to control."-Annals of Hygicne.

The Burar of University College has received from a liberal donor, who withholds his name, the handsome gift of 82,000 to found a scholarship, the interest of which is to be annually a warded for the special encouragement of the study of the Natural Sciences, and as such to be given to a student in actual attendance at the College who shall manifest the greatent ability in the diligent pursuit of that department of knowledge. The aonor furthur adds :"It is also my wish that this scholarship shall hear the name of the 'Daniel Wilson' scholarship, and so be associated with the name-of one whose example will furnish an honorable incentive to the joung men of Canads to follow his stẹps."

The American Journal of Eiducation, Sit. Louis, is making a strong fight for longer terms of sch wols and better wages for teachers It demands of the States nine months of school each year; anis that the minimup, salary paid to teachers be 800 per month. The former demand is based on the argument that a tax neceanary for the support of the schools for that length of time would. be less than that required for the support of paupers, criminals, inebriates, otc., $\dot{y}$ a to ignorance. The inorease of teachers sulary is asked in the belief thai.t wrild call to the school-room more competent and officient ingtructory elevate the standard: of the profeanion, and
enhance the results desired to be obtaned by popular educationThe zeal with which the Jourual engages in this work is commendable. -Chicago Current.
Mr. 13. N. Davis, 13.A., Queen's University, has resimed the Headmastership of Trenton High School, and is gong in stady law. Mir. D. C. Little, B.A. Toronto Comversity, formerly Classical Master, las receceived the appointment to the Headmastershup.
When the father will, he can be asplendad teacher for his chald; when the mother will, she cam make the sewang room or the kitehen! cluyuent with thuse memoras of lessons leamed, and of problems tried, which every scholar knows all about and keeps as his deatest treasure; when father and inuther buth will, they can uphold the hands of the teacher, and the three, w.irhing together, will make an irresistible power to leave the world better and purer after they have dropped out of the struggle. - l'ennsylicania scluool Jonrmal.
Mark Blanford, of the Georgi: Supreme Court, has a son who was recently engaged in a stupendous task to master Greek. Une might the young man was pormig over has lesson, perplexed and m dire distress. In the room was a negro boy, whose busumess arnund the place was to curry and feed the horses, black boots, and dosmmar work. The negro listened for quite a white to the walls of the young student and then said:
"WMarse Bub. I can read that fur you.
"You, exclaimed the ywung matu. Greek."
"Can't help it," replied the negro, "I cinn read at.
The bork was handed to hom amd the negro read rieht alons. When he had finished Judge Blaufurd sand.
"Where in the mischicf did you learn to read Greek ?"
"At the Atlanta V'niversity"" quietly responded the negro. - Atlunta Cinastitution.

## Corresponidere.

## WHATS IN A TRILLIUN:

In teaching notation and numeration to our puphls we often make use of the terms trillom, billien, etc. Do we give them a proper conception of the enormous numbers implied by these terms? Have teachers, generally, cren a fair idea of what these terms mean? Iet us look at a trillion-the English billim-in the concrete: A trillion seconds! Five times the aumber elapsing since Creation, accepting the chronology of the bible as we minderstand it i trillion ceats! One on tup of another, they matie a pale nearly a million miles hugh; as a necrlace, they would encreve the carth about Geis times; cast anto a pyramul, they would make a m-mu. ment 1.40 yards square and higher than the spure of St. James' Cathedral, Toronto; in prallel rows, they would extend over ode square miles, leaving little curvimear quadrangles aggregatug 53 square miles; to lift them would require every man, woman and child on the American colturent. A trillion bricks would buld soo such pyramads as the Sphanx. A trilhon words : Hiad io Woman Suffrage orators started at the Eughoh Reformation to utter that many, they could have exhausted every word in the humam Janguages and would not fimsh the job thll the tume we expect the world to acknowledge our ainhty-more than a century hence. I am quite satisfied that one teacher with whom 1 was speahinge had .ot in adequate annception of the term trillion, for she said the gencrosity of her crustecs was a "trillion" thenes less noticeable than the bashfulness of a bonk-agent an allasion to my one tmo occupation, no doubt. Noticing my meredulous looh, she flung at me the well-known aphorism from buileau Te rasi icat pestonjours le vrairemblubie: "Truth oft lacks versumitude.

Tuscurora, lirant Co.
J. Il. Ciakr.

## Muestion Braluer.

 Jifh 2as a rile, for corrergonitenta

## questions.

In 1881 I took a professional Sccond B. Can I obtan Second A without further professimal training?

Sitseminera.
(a) What is meant by "crord preture" as used in the first question in Literature (Coleridge) in the late Third Class Exammation?
(b) What sum of money must be divided among $A, B$ and $C$ so that A may have $\$ 1.44$; $\mathrm{C}, \$ 1.2 \overline{0}$, and that 13 may have as much per cent. more than $A$ as $C$ has more than 13 ?
(c) Paid threo sums of monoy in succession, each of which tonk $才$ of the moncy I had before paying it less 50 cents, after which I had $833^{2}$ s left. How much had I at first?

Quaker.
(a) Name the five great maritime powera in the world, giving ames in order.
(1) What metals are fuund in Curnwall, England? Huw do these metals appear in nature? A Subschaer.
Will some ono of your numerous readers send for publication in the Casaim Slhoul. Jutinsatia "Time Thable" ior a school of four classes (viz, 1, 2, 3, 4). Third and fuurth being senior departments, and first ad second junior departments. Winc Kist.
(ic) The fore wheel of a waggon ss $10 \frac{\mathrm{ft}}{\mathrm{ft}}$. In circumference, and turns 440 tumes more than the hind wheel, which is $11 \frac{1}{5} \mathrm{ft}$. in ciecumference; find the distance travelled over in feet.
( 6 ) What is the population of the following places. Turonto, Muitreal, Quebec, Hamilton, Kingston, London (Eng.) and India? S. Pond.

1 Divide the fraction 15 into two such parts that 4 times one of them added to $\overline{1}!$ times the other may mahe $1 \frac{1}{s}$.
2. A, B, C and D together do a work for which A, by humself, "would reyure 2 huars less than 13. A and IS together could do it
 the thue $B$ and D would take, and $B$ and $C$ fis of the thme $A$ aid $D$ would take. Fund the time each person, singly, would require to


## 3. Now, man 20 man, and steel to stecl, <br> A Clisethain wengeance thous shate feel.

What kind of a phrase is "man to man," and how would you parso the first "unan"?
4. Huw did Scott prepare himself for writing "The Lady of the Lake," and wherein does his selection of subjects for his literary works differ from that of other authors?

Suhscmaer.

## ASSWERS

Sunscmbsin.-Yes, by passing nun-professional examination.
A Sunscmas: - (a) The answer depends upon what is taken as the bass of maritin: z power. According to the number of armored steamers, the order is Great Britain, France, Turkey, Russia, cinted States. Reckuning shys of all classes, Great Iratain, France, Russa, Sweden and Norway, Cnited States. Reckoning by number of men, Great Britann, France, Russa, Turkey, Italy: Reckomms by anmual expenditure, Great Britan, France, Russia, Crited States, Germany shese arrangements are based upon the statisties for 1880, the last we have at hand.
(i.) Copper and tin are the must important, but lead, iron, silver, cobalt and antimony are also found. Cupper and tin are found m veins, varying in thickness from 30 feet to less than a quarter of an inch, runuing through the granite and sandstone. Tin is also found in the gravel, and veins of lead, suter, etc., in the sandstone.
S. Poor. - (l) Toronto, in round numbers, 100,000 ; Montreal, 150, 200 : Quclec. 62, 000 ; Hamilton, 36,000; Kingston, 14,000; Londnan (Eng.) This depends upon what is meant by London, i. c., how many of the surrounding villages and parnshes are meluded un th. There is modefinte bounda.y. But withn the hames adopted in the last censun, whel meludes the area under the operation of the "Metropolis Local Government Act," the population an 1881 was 3,816,453. India, in round numbers, 254,000,000.
Answer to Joln Ireland's problem in No. 20, School. Jounsat. The quantity is-

## Etitcratn ©lit-Clat.

Scicuce anneunces shat hereafter it will devote a supplement every fourth reek to education, pedagogics, and the biblingraphy of education.

Mrs. Marnctt's clarming story, "Littlo Irord Fauntlerry" which has been rumning in St, Nicholas, is published mbonk form by Messrs. Charles Scribner \& Sons.
"The Wisdom of Edmund Burke" is to be the title of a forthcoming volume, containing selections from Burke's writinge on political questions. The editor is E. A. Parkhurst.

Miss Rose Cloveland will, it is said, reture from the editorship of Literary Life. Ill health is assugned as the cause, but disugreoment with the publisher is also understood to have occurred.
Holinan Hurt, the great Euglish artist, has a beutiful home at Fulham, in which he passes culy a part of his time. The counter attraction cunsists of a house and studio which he has bult just outside of Jerusalem.
Those who have read Miss Alcott's "Little Men" will boanxious to know something of the after listory of those charming little fellows. In "Jo's Boys and How They Turned Out," the authoress gives the infurmation.

Geurge Alfred Townsend dictates, it is said, almost every line of his work to a stenographer. So docs Joseph Howard, jr. George Augustus Sala writes with a fine pen and makes manuscript so small and close that it is read with difficulty. Sala works in the morning and sometimes well along toward the middle of the afternoon.
St. Nicholas for November is the first number of a new volume. It is quite up to the usial mark, which is a good deal to say. There is Miss Alcott's churming little story, "The Blind Lark ;" sume of Hugo's Tales to his grandchuldren, the "pening chapter of a serial by Frances Courtenay Baylor, "The Bromn's in the Gymmasium," by Palmer Cox ; another "Historic Girl," by E. S. Bruoks; "Doll's Lullaby," by Helen Gray Carr, and other good fhugs too numerous to meation, with the usual complement of fue illustrations.
The Youth's Cumpanion celebrates this year its sixtieth amniversary. Its contributors are the most nuted writers of this sountry and of Europe. Among them are iw. D. Howells, J. T. Trowbridge, Prof. Huxley, the Duke of Argyle, the Marquis of Eorneand Princess Louise, Archdeacon Farrar, C. A. Stephens, Admirai David Porter, Licut. Schwatka, and many otheis. We do not wonder that the Compauion, with such contributors, has aearly 400,000 subscribers. It costs but $\$ 1.75$ a year, and a subscription sent now is credited to January, 1888.

## Teracheis' 2atssociations.

Weat Lamifon Teacneme' Association. -The regular half-gearly meeting of this Association washeld in Sarnia, on Thursday and Fridaj, 2lst and 2 and ult. There was a large attendance of teachers and citszens of the town, and considerable interest was displayed in the subjects discussed, especially in that of the Kindergarten. Alusic by a class of tcachers in training, under the leadership of IIr. W. Mcilpinc, also adiled much to the suceess of the convention. After routine husiness, Mir. J. Llobinson explained how lie would teach Greatest Common Mcasure and Least Common Alultiple by factoring. He woula begin by showing the class how to find the prime factors of numbers, and then to select from these factors the ones which give the G. C. M. and I. $\mathrm{C}_{\text {, }}$ MI. A discussion followed, in which Messrs, Grant, Howell, and Brebner took part. Dr. Logic, being called upon, rend an cseay on "Hygiene in the School-room." The nceessity for care in the selcetion of a school site, also the proper ventilation, licating, etc, of buildings was duelt upon, after which the trouble which gives rise to discases of the eye were explained, and the proper way to avoid these was pointed out.
In the afternoon, Mr. J. J. Matthews gave his views on "Arithmetic to Third Class:' The various parts of that subject which he would take up with this class were indicated, and methods of teaching then explained. In all parts of the work he would give guestions of as practical a character is possible. Mr. D. D. Moshice mext exphaince his manner of giving and correcting lessons in Dictation. The time devoted to tho lesson and also the amonnt of it was referred to, after which a number of questions were asked and explanations given. Aitcr a recess of ten minutes, Mr. Mrebner give his views on the College of Preceptors, pointing ont what he considered the sood and the bad points in the scheme. Considerable discussion followed, Messra. Grant and Mucke taking a favorable riew of the scheme, and Messrs. Evans, Howell, and Ancahicer opposing it. Finally it uiss diecided to postpone the discussion till after Mr. Boyle was heard regarding the Ontario Ealucational Socicty:
There was a large attendance in the cevening to listen to Dr. Thompson's lecture on How the Worlds were Built, or, God's Wonders in Creation." The lecture, which was specially prepared ly Dr. Thompson for the oceasion, was one of the lest with which the Associntion lins yet been favored. A short auldress was also given by Mr. Tibb, and several selections of excellent anusic by the choir.

On Friday, Mr. Brebner explained the different scales of Notation. He then indicuted varions points in the decimal scale where mistakes sometimes ockur in teaching this branch of arithmetic. Mrs. Newicomb was then called upon to eaplain the Kindergarten system of elucation. She began by explaining the methorls alopted in these schools to awaken and derelop the faculties of the children, illustrating her remarks with
reference to "giftw" which are used to anuse and instruct the child in color form, ete. All of theserexercises are accompanied with songs by the chilidrea. Aliss 1:. Cameron, of Detrolea, showed her methon of conducting a Reading Lesson, having a second class present. The Idsson selected was taken from tho Second Reader, entitled "Cotoon." After explaining the lesson by showing the class the cotton in the raw. and also in the manfactured state, slie proceeded with the reading, in which both teacher ame cliss acquitted themselves well. Mr. Uaviil Boyle, of 'Loronto, gave an alliress on the O'tario Educational Society, showing the a ms and objects of the society.
In the afternoon, Mr. Grant criticised the scheme unfavorably. Mr. lhillips followed, taking a favorable view of the priaciple of such sucictics. Mr. loyle made some explanations on points objected to by teachers present. Mr. Mrebner addressed the meeting on some of tho difficultics in comection with the working of the society, but taling a favorable view of it in other respects. The discussion was adjourned. Mrs. Nowcomb delivered an interesting lecture on the theory of the Kindergarten system. She also explained the methods adopted in conducting the classes. Mrs. Newcombstated that in the Kimilergarten at IIamilton three hours each day was the length of time chaldren were required to attend. Mr. J. J. Bell took up "English Literature," his object being to show how he would teach it to a class. He exemplified his method by asking questions regarding various points in the extract which he had selected, a number of teachers having consented to act as pupils for the occasion. After a short discussion on the Ontario Educational Socicty, it was resolved to drop the subject for the present, and the Association adjourned at 4 p. n. The next mecting of the Association is to be leld in l'etrolea.

The: Wrat Bhuce Trachers' Association.-The autumn mecting was held in the Model School here on Thursday and Friday, 3 th and 29th ult The mecting opened with the usual exercises, and the reading and confirming of the minutes of the spring mecting.
The president, N. D. McKinnon, of Unlerwood, presided at all the sessions. A reading, "Nobory's Child," by Thoniss W. Powell, was well received.
English grammar in Pullic Schools was discuss day Dr. McLellan. We have two parties taking opposite views, the one regarding grammar as useless, the other analysis as the only thing necessary. The teacher should carefully guard ngaiust these extremes. Such writers as Grant White and Colonel P'arker do much harm. The st:dy of grammar alone is not sufficient; language must also be studied. Words must bo studicd in company with their fellows in sentences. Analysis also has a place, as the sentence and thoughts in it can be fully understood ouly by the mind mentally diviciing the sentence int , its several clements.
The president reported for the delegation to the P. T. Association. The College of I'receptors, he said. was the inatter that attracted most attention, though many other interesting matters were discussed: Mayor Howland's andiress on the nececsity for industrial education, also President S. MeAllister's address on the improvenient introduced into edncational matters through the influence of the 1. T. Association, were, he said, hoth iuteresting ind instructive.
A song, "Nelson," was sung in good stylo by Professor Jones, and was orected with loud applause.
Alr. Frecr, 13.A., read a paper on English Literature Ancient and modern plans of teaching were contrasted. Defects in ancient methods and improvements in inodern were well indicated. Extracts and selections should be first understood as a whole Parts should be committed to memory and recited. The spirit of $E=$-huthor should be imbibed and the leading thoughts traced and their relation pointed out. The force of wonls, their meanings and derivations, should be learned. Portions of the sclections should be paraphrased orally and in writing. Niec distinctions should be notieed and similar constructions selected or given from memory. Thoughts well expressed should receiveattention; the language and arrangement should be closely examined. Brevity; terseness, diffuscuess, and similar qualities should be iliscovered and fully discused. The committing of selections to menory would strengthen the memory, improve the language, supply thoughts and images, and refine the sonl. The carcful study of the selections would givo freedom and choice in the use of language, ia tiste for litcrature and a means of culture and refinement zupplied only by the study of Jiterature.
Mr. Yowell indorsed fully the intcas sleveloped so clearly in Mr. Frecr's paper. We shonld be prond of the English language and master it. The paper real breathed the right spirit.
Dr. Melellan emphasized in strong language the methods adrocated in Mr. Freer's paper, and apecially the neceesity of cultivating the ancmory in yonti. The English, he said, is the strongest language spoken, may be made as musical as the French or Italian, and possesses the best literature in the world.

A reading, "Maiden Martyr of Scotland," wae woll remedered by Miss E. M. Thomson.

Alexander McLeod opened the discussion on Teachers' Union. He strongly condemned the underbidding and undermining practised by some teachers.
Mr. McClung considered teachers should do something to protect themselves against unprincipled men in and out of the profession, and should ulso aim at rendering situations more permanent and information respecting them more easily obtained. Positions are, he said, often secured and kept through political, religious, or social influences. Salaries are not always in proportion to work done.
S. D. Bradley had no faith in unions. Teachers were themselves to blame for losing situations. Some teachers were now paid more than they deserved. Good teachers were usually well treated.
Mr. Cameron considered Mr. McClung rather extreme in his remarks. Teachers usually held positions as long as they wanted them. Everything will be satiffactory when the people are properly educated.
Mr . Smith would like to hear from the young teachers; they were most interested in the matter.
Mr. Powell regretted that teachers are not always true to themselves and one another, but was afraid union would fail in making teachers honorable who are not so by nature. He aloo thought union would be of little avail in securing increase of salary. He had still some faith in the law of supply and demand. Mr. H. A. Stewart could not see that much could be done by forming a union. Underbidding could not be punished, nor could salaries be forced up except by natural causes. The Association adjourned at 5 p.m.
In the evening Dr. McLellan lectured in the A. O. F. hall to a fair-sized audience on "Infuence of Elucation in National Life."
On Friday, Mr. R. Strothers read an essay on the late Dr. Ryerson. The salient points of the essay were the doctor's early education and difficulties with his father respecting religious matters ; his ma'agement of the Christian Guardian his sympathy for the teachers; his comprehensive grasp of our educational system; and the liberal treatment he reoeived from the Provincial Goverument during his declining years. The secretary read a circular showing that only $\$ 4425.00$ has yet been contributed to the Ryerson memorial fund, and that at least $\$ 3400$ more would be required. Tne Association authorized the secretary to receive all contributions toward the fund and forward them to the M. F. committee. All interested should send in their contributions as soon as poasible. The object is a worthy one and appeals to the purest and loftient instincts of our nature.
On the question of the proposed College of Preceptors, Mr. Powell said he had given the matter some attention, but did not fully comprehend it in all its bearings. The changes proposed were unquestionably radical in many respects. Prinsipal Dickson's scheme was, however, only an outline and could be modified. He gave a short account of the history of the movement and dwelt upon the leading feature of the scheme, paying special attention to the advantages teachers would derife from the formation of the proposed college.
Mr. Freer favored the movement. Teachers should have more direct control of educational matters than they at present possessed. They wanted unity of action, increase of professional spirit and independence. Education should if passible be placed outside the influence of politics. Men of experience and iudependence should direct and control the examination of teachers.
Dr. McLellan considered the proposed changes too sweeping. They asked the government to surrender some of its most important functions; A oollege of preceptors would do much to improve the teachers' position and for the cause of education. But teachers must be contented with moderate concessions on the part of the Government.
Mr. MoClung believed the move was in the right direction, and, though difficulties existed, urged upon the Association to declare in favor of the proposed college.
Mr. Powell moved, seconded by Mr. Freer, "That in the opinion of the teachers of West Bruce in convention assembled, it is desirable, for the purpose of promoting sound learning, and of advancing the cause of education, that a college of preceptors be established, based upou the principles and embracing the main features of the scheme outlined by Principal Dickson at the lant annual meeting of the 0 . T.'s Ampootation in Toronto.
The reaolution was passed almost without opposition. Only two votes were cast ugainst it.
Professor Jones sang: "Our Homes," and was tendered the thanks of the Association. He responded and sang, "Gool-bye." The professor's singing was a very pleasing feature of the whole programme.
Miss Powell's pupils gave a short exhibition in drill and calisthenics. They acquitted themselves well and performed the exercises with military precision, although the eldest could not have been more than eight years of age.
S. D. Bradley gave an essay on "Home." The influences of home and its Associations were clearly indicated by well chosen illustrations. The mother's advice, the father's counsel, the sister's sympathy and the brother's encouragement, each received due attention and was made to play a part in the formation of character, and in the future destiny of the play a part in the tormation of character, and in the futur C. Powell.

## Literarn Rebictos.

Light on the Mybterifs of Natube and teris Binle, in the form of Letters to OUr Children. By J. A. Cunningham. Vohame I. (Cizainnati: Standard Publishing Company, 1886.)

These letters, the author informs us, were written specially for the benefit of his own children in the course of twelve years during which his busivess kept him most of the time from home, but were also intended for the guidance, good, and government of all children. The letters are well conceived, excellent in spirit, and full of instruction. The language in which some of the scientific portions are couched seems to us rather beyond the range of the ordinary vocabulary of children, but this is, perhaps, nnavoidable from the nature of the subject; and there is much that is within the comprehension of all, and can scarcely fail to interest all.

Arithmetic. By Charles Pendlebury, M.A., F.R.A.S., Senior Mathematical Master of St. Paul's School, formerly Scholar of St. John's College, Cambridge; suthor of "Lenses and Systems of Lenses, Treated after the Manner of Gauss." (Cambridge : Deighton, Bell \& Co. London : G. Bell \& Sons.)

This is a work of 460 pp ., in which the author treats with such fulness as his limits allow "so much of the science of Arithmetic as is needful for school use and for the Civil Service and other examinations. The book follows mainly the English order and methods. Proportion and percentages are treated by the unitary method. Everything like an arbitrary rule is avoided. The examples of all kinds are very numerous, there being ne rly 8,000 in all.
Hand-book or Zoology: With examples from Canadian Species, Recent and Fossil. By Sir J. William Dawson, LL.D., F.R.S., etc. Third Edition, Revised and Enlarged. (Dawson Brothers, Publishers, Montreal, 1886).
The object of this manual, as explained by the distinguished author, is to furnish to students, collectors, and summer tourists in Canada, an outline of the classification of the Animal Kingdum, with examples taken, as far as possible, from species found in this country. Fossil animals are included as well as those which are recent, because many types not represented in our existing fauna, occur as fossils in our rock formations; and because one important use of the teaching of Zoology, is that it may be made subsidiary to geological research.
Directions for collecting and preparing specimens are appended. This work in the previous editions is, no doubt, too well known to make special reference to its merits necessary, even did not the high reputation of its author afford an ample guarantee of its excellence. The present edition is beautifully printed, the illustrations are numerous and first-class in character, and the fexible binding is substantial and extremely neat.

Firet Steps in Scientifio Knowlqdae. Complete in seven Parts:1, Avimals ; 2, Plants; 3, Stones and Rocks; 4, Physics; 5, Chemistry; 6, Animal Physiology; 7, Vegetable Physiology. By Paul Best, Member of the Institute and ex-Minister of Public Instruction of France. Translation by Madame Paul Best. Revised and corrected by Wm. H. Greene, M.D., Professor of Chemistry in the Philadelphia Central High School (J.B. Lippincott Company, Philadelphia.)

The above transcript of the title-page is sufficient introduction to this valuable little work. The name of the author is sufficient guarantee for its scientific authority, the arrangement of its parts for the comprehensiveness of its plan. When we add that the style is simple and clear, and ach mirably adapted to the comprehension of the child of ordinary intelligence, and that illustrations abound on almost every page, we have said about al that needs to be said to convince our readers of the excellence of the book. We could wish a copy were in the hands of every child above the age of ten in the Public Schools. One should be on the table of every family where the parents desire their children to acquire a love of knowledge and to become intelligent members of society. Half a million copies were, we are told, sold in France within three years after its first appearance, and the second edition of the translation followed the first almost immediately in England. In the edition now before us the Natural History has been slightly enlarged by the introduction of several American species, omitted in the original and in the English edition, and a few insccuracies concerning other species met with in the United States have been corrected.

Stories of Greek Heroes by Niebuhr. Arranged as a First Reading Book, with Notes and Vocabulary, by A. P.
Modern Languages, Modern School, Bedford.

Fresch Poetry for Schools. Edited by James Boielle, B.A. (Univ. Gall.) Senior French Master in Dulwich College and Examiner in French to the Intermediate Education Board, etc.

Thipertipa. (Second Series.) A course of easy Latin exercises for Preparatory Schools. Arranged to suit the threefold division of the year. By Frederick T. Holden, M.A., late of Emmanuel College, Cambridge Assistant Master at Cargilfield Preparatory School, Edinburgh.

The above little works, each of them neat and attractive in form and admirably adapted for their respective uses in preparatory classes, come to us from the prolific press of Rivington's, Waterloo Place, London.

How to Strengthen the Memory ; or, Natural and Scientific Methods of Never Forgetting. By M. L. Holbrook, M.D., Editor of "The Herald of Health," author of "Hygiene of the Brain," "Eating for Strength," "Fruit and Bread, etc. (New York: M. Holbrook \& Co.)

This seems to be really a very suggestive and useful little book. It does not contain, as one might fear, one of the complicated systems of artificial muemonics, but a series of simple and natural methods. They are all easy and adapted to every class of readers. Many of them have, no doubt, suggested themselves to most students, but even such will gain an additional advantage from having the principles stated in clear and simple language and with meth ical arrangement.

