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# no. 24 <br> COMPANION AND TEACHER 

We Study to Instruct; We Endeavor to Amuse.

## Editorial.

## Denominational Sehools.

## 

The guestion of denominational cersus undenominational selwols is wio that has bern bithuly fought in nearly evesy liusince in the Canalian Confederation. It has been, and is yet, a subject of warm contention among our neighbors across the lines. The cause of this appears to be in the fact that many liunsan Ciatholics art: at variance with the great lrotestant majurity regaraling the objects for which schouls are established. The former regarl the school, in allition to the objects given bclow, as a biauch of the Chureh, in fact, call it "the child's Church," and make the teaching of the doctrmes of the Fuman Catholic Church, :an integral part of the onlinary work of the school. The latter new the sehool as wh estab. lighment whose chief ulject is to impart secular instruction, ami to develop the intelle stual amel moral faculties.

In Ontario the Separate School agitation first engaged attention alount 1040 , and in rather mure than the ensuing decinle tal I.cgislature alopted as, many as five Acts or ameudments affecting the Separate Schools. But dissatisfaction still existed, and after a violent controversy the Roman Catholic Separate School Act of $155_{5}^{5}$ was passed. In the course of a few years, the Act was denounced, and the Bill known as "Scott's amended Scparate School Act" was introduced in 1860 , pressed with modifications each time, in 1561 and 1862, and finally passed in 1563. Agitation was again resumed in 1865, but it appears to have been chilled by the following published statement of Dr. Rycrson :-
"If, therefore, the present Scparate School law is to be maintained as a final settlement of the question, and if the Legislature finds it necessary to legislate on the Separate School question again, I pray that it will abolish the Scparate School law altogether; and to this recommendation $I$ am forced, after having long used my best efforts to maintain and give the fulleat and most liberal application to successive Separatc School Acts, and after twenty ycars' experienceand superintendence of our Common School system."

Since 186 ais the question has lain at rest in one |tario. Suppoiters of 1:. C. Separate Schools are , caempted frum tanation fur l'ublic School purpuses, and they are resied with ample powers for the eollection of their own rates.

In the Provined of (Guebec, after much discussion the l.w was frumel (ISCO) so that the minority in , religion in any muncipality may dissent, and es, tablish Lissenticnt Schools, the trustees of such schools having the same powers as the Commis,ioners howe in respuet of Common Schouls. Iteligious teaching is acknowledged as a distinctive feature of the Qualue system. In the schools that are not lioman Catholic, l'rotestant ministers are expected to give the religious teaching.

In Nuw Brunswick aud Nusa Scotia, the Separate School agitation failed $t_{1}$ accomplish as much as in Ontanio anil Quebec, but a compromise was cfluted which, if carrich out in good faith, should ; prove satisfactory: In loman Catholic Sections, lugally ecrificatul teachurs of the same faith are to be rppent. I. Relifioux instruction may lee given, but not within legral school hours.

In New. Brunswick fecling lial run too high to admit casily of giving the law a fair trial. During such xasons unwarrantably strong assertions are apt to be made, and the makers stand by them even at a sacrifice. Winners rancoronsly press their gains, and losers give unnecessary and sometimes unreasoning opposition. Quite recently Bishop Swerney permitted the scizure of his carriage to pay the Common School tax asscssed on the Catholic Schools in the town of Portland, N. B.

Prince Elward Island was the next to undergo a severe con:lict on this question. It was fought last year wioj great bitterness. The majority carricd the undenominational system, but the struggle is hardly over yet, as the School bill is now before the legislature.
In Manitoba at the present tirno, the public question of greatest monent is whether the school system is to be "denominational" or "national." At present there is a Central l3oard of Educatir which resolves itself into "two committees, sections, one consisting of the Protestant, the other of the Roman Catholic members therenf, and the matters and things which by law lelong to the Council are referrei to the said committees respectively." Each committce licerses'its own
tenchens, nut makes regrlations for its own gelools. There seems to be great dissatisfaction with the armangement.
The views of the alvoentes of non-scetatian schoolshavebeen set forthinnine resolutions, manimously atlopted ly the Wimipes Suchol Board, of . whech the following is the gist. -

1st. That the present Act of Education of Manitolat does not mect the repuirencats of the growth of the l'rovince.

2nd. Fixperience proves a mon-secturian system better adapted than any other for mived commani. ties.

3al. What tine consciente phea is fallacions, inasmuch as non-sectarian schools fail to teach relagion byelefect, and not only do not interpue obstacles to religions instruction out of sehool hours, but rather prepare the mind for its reception; and that thousamls of strict Catholies have heen educated in such seliools.

4th. The division line made by the Aet hetween Catholic and Motestant shoald be obliterated, as it is unjust to expend the revenues of the Province in teaching the doctrines oi one particular charch out of five or six.

5th. 'lhat this division line increases expenses.
6th. That the education given under the present system is inferior in character.

7th. 'linat when there are too fow Catholic familes in a neighborhood to support a school, rather than allow the children to atteme a school Protestant in mame thes are permitted to grow up in ignorance.

Sth. Where there are but few Protestant families in a Catholic neighborhood their children are growing up in pitiable ignorance, their parcats having to choose between that altermative, and their being tanght doctrines which they cannot receive.

9th. That it is a crime for the stato to allow the members of its future governing body to come into possession of their rights untit to use them; that the State is loomul to estallish such a system of elucation as will best prepare its citioens for the intelligent use of their franchise; that in a Province where the elements of the population comprise those who speak English, French, German and Ieclandic--the establishment of one system of public Euglish schools is the only means of fitting the people for conilucting lousiness efficiently, for fulfilling the duties of social life, for preserving the rights of all,-irrespective of class or creed, and for carrying on suceessfully the affairs of the State.

The present system has been defended vigore aly in press and pamphlet within tho present year, and as vigorously opposed. Those who defend the system take consolation in the belice that the
change is ullye rires tho Provineinl Legishaturo, and that only the Imprial authority can give such bower. The twenty-secome section of the Manitoln Act declares :-
"In and for the I'rovinco the snid legislature mas cadnoisely makic lawsin relation to liducation, sulject and according to the following provisions :-
(1) Nathing in auy kuch tew shall prujuticially aflect anyright or privilege with respect to denominational seluopls which any class of persons have hy jaw or practice in the Province at the Union."
'Ihissection is thosame as thatof the l3ritish North dmerica dct, which guarmentes the protection of the l'rotiostunt on liuman C'atholic minority in roIntion to ellucition, axcept that the B. N. A. Act loes not contain the elanso "or practice," and consequently is less favorable to the separate Schonol than the Manitola Act.

O1: the other hand it is chamed by the opponents of the present systom that at tho time of passing the above cited Act, neither l'rotestant nor Catholic possessed any right or priviluge in a technical sense. This may be the case, lout it seems to us at hard pnsition to maintain.

## Contributed.

## Sugestions on Teaching Arithmetic.



So highly is a linowledge of arithnctic appreciated that comment on the value of the subject is scarcely necessary: Aftording, as it does, when properly studied, facilities for disciplining the mental faculties equal to Euclid or any other sciences or classics, it should reccive attention commen. surate with the importance of the subject.

No doubt there has been great improvement in ' the treatment of the subject within the last de. cade; hat there is still great room for further improvument.

In examining the papers of candidates trained under elifferent instructors, it is surprising to see the variety of methods employed in solving the same problem. The unitary method is recciving much favor, and deservedly so, being snited to almost cvery stylc oi problem. It is a great pity we have no worli treating on the subject more fully: Allow me to remark here that 1 am of the opinion that, if the Council of Public Instruction had camined every work on Arithmetic on this continent, they could not havo selected one less snited to the wants of onr public schools than the present anthorized arithmetic. An early change here is very desirable. No doult Dr. MeLellan shares this opinion to some extent as he has recommended teachers and students to get Hamblin Smith's Arithinetic. But I am digressing.

In introducing arithmetic to a class of beginners concrete nambers should invariably be used. A child has no idea of number unless in conncetion with objects. Fully two-thirds of the time spent

in feachiny arithmetic to beginmers should be given to mental oxercises.

The old system of tirst learning the rule and then "doing the sum" is fast becoming a thing of the past. The rule is best learned by working tho question, malyzing the principles, and explainng the reasons.

To repuire a puph to learn and moderstand a rule before ho is permitted to see its principles illustrated by simple practical examples, places him somewhat in the position oi the boy who was forbidden by has a ather to go into the water till he had learned to swim.

In order to teach arithmetic, as well as other subjects, succossfully, the teacher should havo a thorough knowledge of the subject, a love for the cmployment, and an aptitude to teach. These aro indispensable to success. The subject should be tanght in classes; much time is saved by this means. Considerable time should be devoted to oral illustrations in ench class. Individual assistance should bo seldom given. If the class is en. gaged ot an excreise they shoukl work all the preblems they can, marking any they cannot solve. Thuse diflicult prohlems should be considered at the next recitation-the principle pointed out and indirect assistance given. Should any member of the class be successful in solving it, he should, after sufficient time has clapsed, go to the blackboard and show his work.

The action of mind upon mind is also a powerful stimulant, in a class, to exertion, and will usually create a =est for the study. The mode of aunlying and reasoning, too, of one scholay often suggests new ideas to others in the class.

The class should be composed of pupils of, as nearly as possible, cyual capacities and attamments. If any of tho class leam nive guickly than others, they should take up an extra study, or be given additional examples to solve, so that the whole class may advance together.

The blackboard shouhl be the teacher's slate. Scarcely a recitation shonld pass without the use of the blackboard. When it principle, is to be demonstrated, or an opmion explained, if loue upon the blackboard, all can see and will usually understand it at once. (icometrical diagrans should alss be used in illustiating syuares, cubes, solits, and mauy other points in arithmetic. No school should bo withont them.

I'wo objects, at least, should be aimed at iu giving a lesson in arithmetic, viz., that of discipliniug the mind, and making a practical application of the principles iuvolved. Many teachers overlook, these two objeet and therefore are not successful in teaching the sub, ${ }^{\text {cet. Their pupils may be able } ' ~}$ to clo all the question: under the rule in the book. but fail in applying the primeiple when a practical problem as given.

The attention of the class can easily be secured by throwing life and variety into the excrcise. Animation aud variety slways delight children, while they loathe dullness. Every cxample shouhi, be aualized, the "why ani wherefors" of every step in the solution should be required, till the leaner becomes perfectly iamiliar with the process ${ }^{\prime}$ of reasouing.
The motto of every teacher sinould be thorough. ness. Without it the great ends of the study are defeated. In securing this oljeet, much alvantage is derived from frequent reviews. Not a recitation should pass without practical exercises being given besides those assigned for the lesson., $\qquad$

Mental oxercises, ns I said before, are very usoful. Thoy make realy and aceurato arithmeticians and aflurd excellent means to arrest and prevent habits of mechanical cyphering and copying.

The habit of celf-reliance is invaluable in study. To acyuire this habit the pupil, like a child learaing to walk, must lec taught to depend upon himself. Therefure, when assistance is reyuired, it should be given indirectly; not by taking the slate and solving the problem for hin, but hy explaining the meaning of it, or illustrating the principle wh which the operation depends, by supposing a familiar case. In this way the pupil will be ablo to solve the questions himsolf, and his cyo will sparkle with the consciousuess of vistory.

The pupil should also be expected to sol-o examples independently of the answers. Without this attimuent the pupil receives but little or no discipline from the study, and is unfit to be trusted with business calculations. What though heshould come to the class with an occasional wrong answer? It is better to solve one question understandingly and alone, than to copy an hundred answers from the book.

Then, to recapitulate : be lively, be thorough, be practieal, be vigilant, and success is sure to fol. low your efforts.

## Pemmanship in Public Schools.

 coldet:b, belosvibis.
The importance of Penmanship as a branch of study in our public schools is of late years begimume to be properly appreciated. The guestion, "Can all chidfren of average ablility and a proper use of tho museles of arms and hands, be taught to write a good hand ? - so often asked, is now answered in the aftimative hy every qualified, experienced teacher of the subject; bin the nert question in matural oriler-" "How can this graral result be best and somest brought about? ', has scarcely yet been thought of, except by such teachcrs as make a specialty of the subject.

A moment's reflection will suffice to convince any one of the importance of this art. Its dilfusion is so genemal among all classes that it may with propricty be styled the universal art. Turn our thoughts which way we will, we lind the art of writing intimately connected with all commercial and social relations of life. There is no trade, calling, vocation or profession of which it is not the mouth-piece. It cmbodies thoughts in a visible language. Ënder its magic power ideas assume tangible form, and the cyo may trace the operations of the mind. As a qualitication for business it is of the first importance, and often goes far in the mind of an cmpl.yer towards making up for other deficiencies. lihen a young mangoes in pursuit of employment, the tirst thing he is asked to do is to give a sample of his hand-writing. liead the advertisenents of business men, for clerks, bookkeppers, ete, a:d it will be observed that they usually require the applicant to apply in his own hand-writing. Let a man in busimess circles step up to a desk and write some docun:ent in a clear, free, bold hand, and he will at once create an impression in his favor. The truth is, there is scarcely any position in which a man may be placed where a good hand-writing will not be of great valuc. It inalways admired and appreciated.

Whev we refiect, and talic into consideration it
importance in all the rehations of life, is it mot strange that it occupics a place in the harlypomme in the great majority of our schools? It is sul). mitted in all candor, in view of its impertance, if the art of writing should not be placed in the forearoume of our educational plans. is nut its natural order next to that of reading! Is not its import. ance pucond to nono but that? but whatare the facts in the case: Until very recently it has almost been ignomed as a branch of study in our pulb. lie schools. II hile wo nre in alvance of the l'mited States m many brancles of seience, wo are far bohind them in penmanshij.

A roform 30 s:aily needed $m$ thas country is now being hrought abont.
In most of our cities aml important thwns this subject is of late recoiving special attention. In many instunce, writiug-masters who teich this subject scientitically ami mpon principles as clear and satisfactory ay that of other linanches, have recently been employen, and the results of such teaching convincons that it is only throurh mans of proper and systematic instruction that the ilv. sidcerfum of a gooll hanl-writing can be procurad lye every pupil that comes fairly under the inthence of our public school system.
While satisfastory evilences of prorress and improvenent are now manifesting themselves in our large schools, located in towns and cities and possessing specinal alyantages, comntry schools, representing by far the largost part of our school population, we find in may instances atill encmanbered hy the ancient methuls of instruction followed by our forefathers, viz., Imitation and P'rut-: ticc. These terms, in their vaguest sense, seem to have complete possession, not only of the public mind, but also of the minds of the mijority of terchers.
The writing exercise is, consecfuently, in many schools an unmeaning, and uninviting ceremony; willingly omitted or laid asine for those nf a more miteresting, lut not more important nature.

While it is indeed true that Imitatiou and Prarrice are tho chicf means by which pemmanship is acyuired, it is all important to the pupil to know how to imitate and how to proctice, that tho best attainable results may he arrived at in the shortest possible time.

In order to effect this, the challs and hach hoard must be freely used by the teacher in comnection with every writing lesson, and the proper monle of practicing the cony fully explainel aml illustrated.

In carly boyhooil I attended a mumber of difter. ent public schools, and was instricted thercin by no less than ten different teachers. While many of these were ws.ll epalified, able, and practical teachers of other subjects, nat one of them knew how to teach penmanship properly; or ever attempted the use of the blackiboard to illustrate and explain writing lessons.

The course usually pursuch by these teachers was to sit at their desk during the time allotted to this subject and write heal-lines for imitation, or, in case engraved copies were used, their time was devoted to some of the junior classes, and those engaged at penmanship were alowed to practice in accordance with the dictates of their own fancy. The consequence wis that some pupils would bo writing one copy and some another; and instcad of practicing carcfully and critically; the olject in most instances would be to see who could get over the greatest space in a given time.
This style of teaching peumanship is still in vogus in many of our pulhie schools. There are still
many tenchurs engaged in the watk who nevor use thu binckboard in connection with their writing lexsons, and ns a natural roanlt their pupils aliow far less improvesuent than those who have heon sullicicntly fortunate to be umder more partical amb enthusinatic teachers.
succexs in the management of writing classes, whother mpuhhe schails or colluges, liopenits almost cutwely upon a proper use of tho blackhoand.
'Ihe live prnetical teacher will tirst explain the copr on the luand, then call the attention of his class to the urrom in furmation, shant, shade, spaceing, turns, ise.. that they nre linhlo to rminto; pmit ont the way to awid them, and lis a fow pointed and well-timesi rumarks inspure on insterest , innl enthusnam m his pupils which will neemsion them to practicu with that \%eal anh critical enrnestuess which ensures success. I venture tho as. sertion that any teacher whe molorstands how to critiesse and exjlain pemmanship, even though he be not a good penman hinseli, bund fecpos up an in. terest in his mpils by a freu and proper use of backlimard allustratovis, will le ahle to show morinpmovement in three wechs time than thase adoptmy the old plan of allowing a class to imitate and practue aceoreling to iminitual fancy em in ax many montlis.
It is often askel. "Which is proferaljle: engraved on written copics?", Hy answer is, that e. jracel copies are aceidedly the hest in any whoul or college in which there is not a professional pensman, or a tesciner who can write sufficiently well that las eomes may ho uscal as prrpor models for inutation. Fior the fullowing rasons - ('npies are the lutans relied on as the suljects for imitation be learners, butil stuch timu as the mind hecomes sulficiently mpressed $n$ ith the forms and essentials of good writing to dispense with them. Copies shonded thereforo comtain that. and that only, which it is clesigned shall he jmitated, amel shomin be so execated and presented as to levelope in the mind of a learner the clearest ami most definite uleal on form, slant, shade, spacing, arid all the other characteristics of fool uriting. It is not for me to speat dasparagingly of the writiug of our teachers. I know that there at amung then some excellent poemmen and many very bad writers. The fues|tion 1s, cien the handuriting of all our teachers, repmeed to teach this subject, be preseated as proper mondels for tixe imitation of pupils:

The diflerence between success and failure in teachang penamaship lies in a clear conception of the dufferent steps in its acpuisition, and a rigid adherence to the Fundamental principles of the Art; and, above all, the ibility to stimulate endeavor an the pupil, whether by the teacher's own skill as a pemman. or his poner to control and direct to suceessinl results by black-board illustrations and criticisms as formerly explained.

It must be recognized that the jesson in Writins is an cetive exercase. in which both teacher and pupil are to participate ior the purpose of promoting dexterity in the use of the pon by the pupil, and that the pupil naturally looks to the teacher for his model and guide in his monlus aprrandi, as : $\because$ docs to his copy for the matter to be written.
Hence it follows that the teacher must be on the alert, active, wide awake, and attentive to the work in hand, and thus furnish a proper person:al example for the pupil's imitation, as well as the precepts which are to guide his performance.
No exercise of the schoolroom calls for more physical pacetion on the part of the teacher than in-
struotion in penmanaling. Aftor the explanation aut the mistakey they are likely to ran intu ann is given on tho board each jupil should lio visited at hess geat, and directol in pusition and movement. and he given free opportanity to watch tho teacher's mitions in writaly an occasiomal worl or eopy: llas attention moulil, moreover, be directed to the manmer of taking and hokling the pen, managune ink ant papper, placo of starting each letter and manaer of forming and combining them in worde, as well an arranging them in limes and columus.

Whale I ama decdedly on favor of teaching the more alvanced pupils ly elementw, principhere, de., I do mot believe in introducing them at the witsot. The lirst lesson in writin: shoulh be made as smple as pussible; shuula fie mere exercises to untiate whine learning, penholilne, position and movoment. I do not beliere in parahling principhes, nymbols, \&e., before begi:ners, 33 is done m the clementary copy hookia of most sy-xtems of penmanshlp: m givan themesact schacer represented by the Quadrant, with its \%o degre o, enveloping and obscurng the copies with a dond of sentenions instructumb, muposable tor a chall to umicrstimal.
Appeals to mature juigment, herical reasom, cul-
 mulated skill aml experience, ave all right in their place, lut should nut be paraderl before tha timid youth juat begintiug vemmanshij.
The tirst lessuns siould be copres oi simphe let. ters to be practiserl on slates; and the plan I have seon successfully arlopted is to have the slates all ruled on ono sude wath light permament lines, properly spacel. The time devoted to each exercise should be about half-am-bour, or not suticiontly long to weary the papils. The pencils should be: of suthenent length to behole like pens, and the mamer of holding them shomble very carefully taught.

On account of the liability of the pencils in common to break, it is a matter of economy and conventence to use those covered with womb. as they are both cheap and charalile, or of the now patent pencil holder lately introduced an our schouls.
The copy, as before metimated, should he ats nearly peifect as possibie in order that proper itleas of torm may he impressed on the learner's mind from the heginning. The first lessons must proced on the sane plan as (lrawing, and indeed, can be termed nothine: but pencil drawing of the lotters and words used in the cops:
On account of the tendency of joung pupils to break slates and lose penenls, it is much better for the teacher to take charge of them. Monitors should be appointed to pass the slates and pencils. Their chuties shoulil be arranged in accomance with the seating of the school room, and should be thoronghly understood by them. They may be appointed as a marli of favor for proficiency or good eonduct, and tanght to look upon ive position as a very honorable o..c.
The plan of conlucting the exercise may iec something after the following order :-
1.-Prepare for vriting: when all other work should be laid aside and desks eleare!. A given signal should then bring up the monitors to pass slates and pencils.
2.- Write the copy plainly on the board so that the entire cass may see it. Let it bo a letter, a succession $r$ - letters, or a wonl, according to the pmficie:cy of tho class.
3.-Exphaiu how you require it copied, and point
uxplain how they may to avoilden.
f. Giie e tho signal to commence writing. Tlow toschor ahould then pass armund numeng thic pmits correcting position at desli, peacil holdi or mins takes in Cormation, sec., until the onorciso is alomt lanf oser, when he shoulid illustinte on the huarid the principal orrors he has observed while passijgs aroumt, and call on the pupils to mame the ditier unt mistakes in formation, \&e., and tell how they shonld be corrected. Tho last tive minutes shonlit ho devoted to critioism of the writing by tho pupils themsels as, pormitting them to oraso and correct any letter with which they are not satisficel.
5. - The monitora shomid at the close bring ul the slntes and pencils and ileposit then: in their proper places, and when an opportunity isathorded thoy should bo carefnlly exanimed ami marked lig the teacher:

A certain mumber of revgniad errors in the exareise may be counted a failurs: a less mumber, iunperfect ; int no failures in lealing featurey, may constitute a perfect lesson.

A small recorl look shombl be kept, into which these marhy shanld be entered ; and in order that this may le readily done, the papils shomate be numbered, and required to phace their numbers conspicionsly at tho heal of tho slate. that they mny be consenientls arranged with the highest numiner at the loottom of the pile, and so mon in regolar uricer, fur marling the standing, as the slates are exanined.
'fhese evercises, if pruperly earriet on, will becomo vory interesting to prinury pupils, and they will looh forward to the writing hour with plea sure.
The promeipal liticults, at first, is drilling them in position, pencil-holding. preparing for the eaercise, and closing. Nbont one-half the tine during the first week should be spent in drilling on thess particulars.
breat careshouhd la taken to explain all the errors for which they are to be beld accomatable beforclinned, with ample illustrations upen the biackboard of correct and incorrest formation.
On the last schoul day of each weck the pupils shombly be called upobe in pepare a line of each copy, word, anil bigure practiced on the provions day, and from these enpies and the merit marks of the weeh the meniturs ui the next weck may be appointed.

This methol may after a time be combined with the spelling exerrise, and crrors in both writing and orthography aoted in the same exercise, using a distinct mark to indicate each.

As som as they have lecen taught to form all the letters and combine them intu wonls, short senten ces should follon, and the child may thas be taught to wrate before the pu, ani :ah $1 \varepsilon$ introduced at all.
The pupils should early learn to set value upon the neatness and suacelul appearance of all the forms they write. Figures, being of equal importance with letters. should also lee gived special attention.

The objections mate to tine use of the pen and mb: by small children is, that they are apt to bint and deface their books and injure clothing and furniture. I would, however, alvise the introduc tion of the pen and paper as soon as the pupil has made sufficient progress to use thrm with any de. gree of proficiency.

To be continues.

## Letter from Belgium.

## A TEM.HRILS CONVENTION.

We have obtained the kind pormixsion of Theo. (Firardot, Esqq., I. ['. ©, to publish the followang lotter literally trans : by him from tho Erench for the Essex lierorle. 'I'soletter was written by a gentlomant who has tanght sehoci in Camala, and is now following that profession in iselgiun :-

Schacrbeek, Signt. 1:, 1876 .
Deall Fismsin, - I would havo written somer, lut I was waiting for the convention of the Bel. gian teachers, wheh twok plave at fihent vester. day nuil tuday. We numbered nbout $\mathbf{2 , 0 1 0}$. خothing conhl hu more impnging ; and you may to suro that I followel, with the deopest interest, the discussiens on the differentsubjects. Yon have perhaps read an acemunt of it in tho Prompext, therefore, I shall be briaf. Ihe question of the maternal tongue was the first on the progratime, and the tecchers in their deliates upon said ques. tion, were unanimons in preseribing the $t$ - hung of graminar in th, elumentary classes as :
time. 'Iherefo.e no more delinitions,
rules. Nothing but practice. This ir opinion, and it is tho :anson why you so mult to do your exerciless attention to your grammar in yoa, regard to the senior classes, the iasembi, divided. The completusuppression of the "book" was jroposent. A professor in the Chent University opposed the idea strongly, and obtained two. thirds of the votes: but I am satistied that the othor thixd. of whice 1 was one, composed the most intelligent portion of the assembly. The teachors of hoth soxes in the country are not sufficiently prepared ior this radical change; atill it will come, for I consider the grammar as a pest in our schools. The look is $r$. $w$ to be used only by the senior classes as but a collection of rules, which ean le referred to in any doulitful case. Nlecham. cal analysis is condemnerl. These sensible ideas which you have on logical analysis developed, and I think it shomle be the baso of the grammatical instruction. Once the sentence is livided into propositions, it is easy to dissect wach one of them into sonls and indicate the functions of eaci : one of these words; but let us uot oblige pupuls to parse sentences oi the style of those old practition. ers, whom you know. I shall say no more on that sulject, for I an certain that you understsud me. Speling is condenined; we mo longer want it. Dictation must be carefully studied before givon out. The pupils must be sufticiently prepared, so as to writon dictation without a fanlt. This study is effected by reading, observation, ic. " " * * We pretend, and with reason, tlant a child nuat see a worl beforo writing it, and it is perfectly nseless, if not prejudicial, to make him write words which he does unt know. Are yoa of that opinion? If you are, you have to reform that principle also. Lessons by intuition mustibe com. plefely transformed: you mast no longer mako the pupil say that the table has four legs, that it serves to * * ©c. * hut you must teach him something new ; for example, the board is mile of the oak, and the latter springs from an acorn, se. The child must be initiaterl to the natural sciences from his carliest ago. Holoves new things, and not those cominon so everyonc. 'lhis is also my orinion. You sce, my dear friend, that we are rapidly progressing in Belgium. It is with great joy that I see the old routine put aside, and

I will certainly do my utmost to hasten its lef cat. Books having the selence as a base, are recom. inended, nut not thoso containing vilgar expressions and foolery, de Wo shomld also havo for the use of the chiidren, school libraries. As a conclusion we shoulal havo a museum in tho nehool w oriler to teach oljenet lessons with moro success. Thes ahoull be days appointed sor walles in tho midst of sature and in muscums, and viaits to monuments for the instruction of hiatory; \&c. * * Al' by intuition. Tho olijeots which have been sec:s hy the pupils shonld be tikon noto of on tho spot, and there ghould be an moro intpussible sulijects tanght, which entirely dustroy the fripinality of the pupil. This is the substance will that has beon sail at (ihent on the matemal tungae. Thy convention also took notico of the meins that shoulil boomployed in order to develop anartistic taste in the puipils. Walks for all the chaliren wore amin proposed, as also the olseervation of nature, that of leaves, of flowora, whicha aro tho base of architerture and drawing; so you seo , we are leterminel to have it thas. I am quite sure that much walks as I have abovo mentioned , slall become a part in out educational system. Movotine for the tenching of drawing has also been asked; the pupils should be required to draw every day: Music must also form a part of the , elenentary instruction. (iymmastics were mentioned as useful in promoting a tasto for the beautiful. I did not very well see tho reciprocity.

A yo ng teacher, in a wise amd well written lesture, showed the necessity of having a teacher in each cantom (township) whowould take the place oi those absent or sick.
such, my dear friend, were the procecdings at our Lonvention in Ghent, apart from all inciderts which gencrally happen in numerous assemblies. Those conventions ilo a great deal of good, for when united, the teachery are strong. You need union in Canada, amd I am surprised that you do not ma, e a pressing appeal to your "confreres" that thuy might initate the lielgran teachers. Owing to these conventions, we have done very much in Belgium. The nerspapers take interest in onr sittings; they say:-"-1fter all a teacher is somebody." The time for indifference lins passed; we lave olstained a good law for oar pensions; and our enemics dare not show themselves publicly. School corporations now fear ridiculo in advertising for tezchers at a low salary. School houses are suw bun some buildinge; each section rivals with the noighboring one, as to which will build the finest sehool housa; the furniture is now heidthy and commolious; the walls are covered with mapis and card boarrls. In some schools we already find collectinas of plants, animals, insects, birds, \&e. Since a few years the progress is inconccivalle, and we can feel sure that it is owing to vur union. I havo already told yon fthat you should never count on rapid progress, if you do not unite together. 'The Laval Normal School' Association is alrealy $y$ something, but still not enough. I do not wish to aloandon the subject beforo speaking to you of our annual test of school walks. I have undertaken the direction of a course of the kind, to be pursucd during tho racations. We have appaled to the yarents and have already 30 pupils at 12 francs apiece, ( $\$ 3$ ), that is, 450 franes, which sun we spend in visits throughont Belginm. The railways grant us a reduction of 50 per cent. I am delighted with tho results. The pupils during the visits conduct themselves like little men;
they observe, judge, question, reason; ots. If it has been though that book you montion more than was possible this should to the only moans onn. tive timen, but yuu may rely upon it that the conployed for the instruction of puphls, at least in certain branches. One day wo sailed up a litule river, fromits source to its mouth, and in half a -laj tho pupils umerstond tho menming of the terms, suurce, mouth, right bank, left biank, ub river, down wes, bed branch and conllux and suvaral ethers whech would have cortamly taken them two or three neoks to understind when onplaiced in class. I am moreover guite sure that those termy are engraved in the memory of the chiklren. Víe havo boen on tho sen ghore, and as in all the other places, thero wiss nothing but yuestions and explanations. Un our way leack, wo vinited sevoral monuments in the city of bruges. 'There we find the whole history of the milule'rahes. Wo saw the tent of Charles the Rash, son of the Duke of Burgomily. Shall not this fast alone serve to imprint in thuir mumory the histury of the kings of buygunly? We have exammed the muscum of natural history; one visit sutficed to understami the four great divisions of the ammal kinglow. We often malio botanic excursions in the country ; the chihiren are both amused and instructed by them. 'llas is our object in Belgian, antid although it maj take us a long timeto suceced still we will attain it.

I will transmit to you all the news concerning the discoveries we wil make, as you will perhaps derive some benetit from it. yours truly,

Pitanati.

## Atoms of Advice.

## 

I veniai: ately to cast three small atoms of advice into the world's great treasury of aceepted o: rejected counsel. I urged upon my young friende, the necessity of three things, vi\%, concentration, enthusiasm and thorougheness. My remarks were general, aud intendeal mdirectly. yet em. phatically for teachers and yarents as woil as for those directly addressed.

Since that timo, 1 have heard that thase two interesting and elever chidren Whlie and Mmme presented themselves at Examination and, in ex. pressive college phrase, were "plucked;" and I am miormed that the parents of these dear precions darlings have ever since lieen in a state of chronic dissalisfaction, and gramblung, because they attributo the ignominous failure of Willie and Mimic solely to the carclessness and uncompetency of their teachers and not in the least 4 anything, or anybody clse.
Now I maintain in opposition to these good people that they ase mistaken in several respects. In the lirst place those children are not so supernaturally clever as their fond parents imagine, and they require to study in the hard hum-irum fashion just like ordinary boys and girls, instead of waiting for those "happy hours that whispor $m$. spiration," when, of course, your talented ginh, or boy of genius comes into the full possession of knowledge by $n$ process swifter than winking and more miraculous than magic. Let it be taken for granted that Willic and Minnic are just as woll endowed as the average boy and girl and not in the least any better endowed with natural gifts and abilities:

In the secoud place these children do not know nearly so much as they and their affectionate parents imange they know. Of course, William
tents of said book have no! y ct hecume assmulated to the dear hoy humself. "The prosers of digestion is not yot comploted, ami you will serce that mother physical or mental digention ought to he hurmedly proformed. If the buy conhl nit answer those fen easy guestious decently, ".ant could lie du whero it must bo takion for granted that he linows all that part of the suli,ject thoromghly: Why, it nuuld lithe making him wear boots three sizes too large, or dressing him in his father's long tniled coat.
'Thrally, there are thoe parties responsilhe for the chaldrens' mperfect edlacatnon, not mertls une as has been taken for granted. I'here is tirst of all the children themseives. If thase two sweet pets are of the pampered, sef(-willed, or mbecile typ. the cleserest ange! within the pearly gates of che celestinl city wauld fal to teach themin sucha way as to onercome those obstacles. Turkeys may be fattenced lay cranmung fonil down their thivats, lout there is alisolately an amalogous procees for celnentung chainesu. It is an impossibility. The will and minellect are fred far hoyond the power of colreiten by moitals. "Cramming" aganst the will of tha chikl, or beyond its montal grasp is non-existent and impossible. Sou may drown a horse but you can't make him drink. $\AA$ bos may be turtured to eleath hos severity, but you caunot compel him to learn if he is absulately determined not to leam, or if he has not the iower to learn though he be willing.

Neat, the teacher of these interesting children come in for their shate of responsibility. lf they belong to the lontus-eaters, who dweit within a land
"In which it secmed always afternom,
All around the coast the languid air did swom, lost neary seemed the wea, weiny the oar,
Weary the "amering fields of haven foam; it thej are melancholy hearers-of-lessons, dreary hurly gardies forever plaging the same disunal old tuncs without variation, suui-less machincs, and not living, thinking, symphatic sculptors of the human marble, why, then, let then suffer the odinm, and bear the smart of censure. luat suppusing these teachers have honestly exerted themselves, have employed vigorously and ekilfully their trained teaching power, and have followed the lest isychological methorls of instruction, aud still these two gur infants have failed, whe re shall we place the responsibility: lithor these chil. dren are naturally and honestly stupid, or their parents are responsible. Just let us accompany them home, cross-eaamine their parents, and ferret out this mystery. It will be zecesssary to press some sharp questions, and insist on clear cut answers. Int us hegia boldly. How many day: have these childten leen absent? How many lessons have they lost by being late " How many cvenings have thoy spent "out" with your parmission and taking jour caclise to school next morning for now-preparation of leasons? How many times this year have you inquired what their work was for that particulir day: Now, perhaps yout are a little "shaky" on ligglish grammar oven, and not very well posted on the properities of num. bers, but how many times have you sat down between those two and with real sympathy and kindness helped them to master the outward form ; of those "terrible" words in that "dreadful" spel.
ling-book, or to get an intelligent concepkion of I Dr. Wiark Akenside, the swo wf a butcher, was the contents of that "horid" geograby eh?" lown at Nuwcastle.ont.Jyne. Nis father wiahing

## How miny times?

How ofter havo yon lind patience mongh to hear poor Will phod throughe that pice of reading for next doy's lesson! Dill yon ever in all your life spend ten minutes in helping these two litt!e' heroes to grasp the thinge that lie hehind the mete! worls in their lessons: This is not a commondity sold by weight and measare, iny dear friendy; $3^{\circ n}$ can net bay and sell education. fifteen minutes or less cach day properly spent in showing your chidiren practically that yon consider their coincation a matter of exceedingly great importance would do more towards exciting in them a latedable desire to low well educated than all your 1 blistering reproaches, or hysterial jercminals.

How many times have you in tho presence oi these puphls weakened tho ihlluenee and anthority of their texcher by hostile eriticism and makind remarks: How many times buve you fortered tha' passionate, petulant, fault finding disposition, wheh is oceasioually to le expected frim thores undergoing the monlding discipline of schoel life" Have you ever taught your children the exaet meaniny of prompt, graceful obed: nee: or has it been too anch troublo to be unde taken? How many times have you privately in conlidental conversation with your children endeatored to make them comurchend the neecssity of struggling for a liberal education at all: Do you think they will strivo for what they are not taught to value lighly: liave you convineed them of the immense iniportance of making thair mark durin: these polden unreturning schooldays? Talso the advice of Miles Standish-"If you wast a thing well done you must lo it yourself ; you must not leave it to others.

Who are the associates and companions of these pupils? Do they spend their leisure hems with thoso vulgar little arabs who attend nu schonl, and aro preparing for scencs in the groos shom, the gambling hell, and the penitentiay? low do thoy spend it? Do you know? Are there any Dime Novels interealated between their school books? How many story books did they ransack last torm, exchusive of those crisp little marratives bronght home from Sunday Schoul" What mutives do you use: Jid you practase a reign of yielding indifference". How mans hours a weck did that all important music lesson occupy? How much interest did you take in the late election of Trustecs? Did you voto at all, and for a man who will pursue the sound policy of judicious cxtravagance and culightened views on education? Or gid you vote for some Judas who will carry the bag for the salse of plunder, and hetray tho interests of our chaldren for the sake of jolss and contracts, and commissions, and other delicate "casual advantages" I respectfully reçuest candid straightforward answers, and pause for your replies before I cadorse any censure whatever on the teachers.

## Biomraphical Sketches.


Ate outhan of the licic and tritings of those atukors jroma
 und Fijilh Headers of our Public Schonls.
Ahesside, Mark, M. D. Bom, 1721 ; died, $17 \% 0$. Selection:-

Extract from his principal poem, "The Pleasures of Imagination," p. 427, Fifth IVerder.
hime to le a Diswenturf Shanster, sent han to kalinhurgh, to be celuented for that position, hut hatving in sirong laking for medicinc, he soon after Weat to lexiden, mal in 17.1 teok the degree of Dactor of Dedicinc.
In the sanne year he pulbished his peam, "tho Pleasores of lmagination," "aperfurmance," remarked Dr. Malnems, "which, prouluced as it was at the age of twenty three, mised unpectations that "ero not vory andy satisfich matter years."
Of this ?mem. Hion which Akemsilios fame as an anthor rests-the man fanlt may be said to consist in many of its maugace beineg too high fown in acmiment aind too inapsondical in diction. 'lhis f buem was followed by a collection of odes, and during his life lie pablinged a mumber of medical ways ame lectures. In the provecution of his profersion he first settled in Nurthamptom, lut ifter a time relnoved to lomilon, where, practising for years, at last lis ahishty as a medical man was reore:ased by has jecing appointed physician to St. 'Thumas' llospital, and ultimetely to the hommahlo prsition of physiciam to (gueen chatlotte, wife of licorge III., which place he hell to the time of his deat').

Av.mint the lioon. I3orn, 1810; dicd, I861.

## Selection :-

Frum a speceln upon "science," delivered at Bemiugham, in 1Sisi, p. 347, Fifth licader.
lrince Alliert was descended from the Emes. tinc, or elder brabeh of the great siaxon family, and was the secomu son of liencest 1 . Dake of Saxe-Coburg-and-(iotha, and Lonise of Saxe-(iotha-AItenharg. IIt was horn on the ?6th of Augast, 1819, at the Rosenau, a charming summer iesidence luclonging to the Duke, and situated abont four miles from Colnrg. In 1837 he, with his brother lirnest. were entered as students at tho University of $130 m$, where he remained until the end of 3s:s. During his ncademical conrse, his tutor, M. Florschutz, writes: "He maintains the early promise of his youth, by the eageraess with which he applied himself to his work, and by the rapid progress which he made, especially in the nataral sciences, political ceonomy, and philosophy. Music, also, of which he was passionately fond, was not neglected, and he had already shown considerable talent as a composer." In $1 \mathrm{St0}$ Prince Albert was married to his cousin Qucen Victoria, daughter of his father's youngest sister, and Elward, Dule of Kont. From the time of his marsinge to the day of his death, his one am was to identify himself with the British people, ever taking the liveliest interestin whatever tended to the nation's welfare, and the amelioration of the condition of the masses. Apart altogether from his position as the Consort of the liuler of a I great Empiro-his integrity-his kineness of dis-position-his love of learning-lis respect for the social relations of hasband ind father-his venei ration, as a Christian man. for things sacred-preeminently eatitled him to be reinembered by us, and those who sha!l conec after, as that-
"Svect ur ture gilded by the gracious gleam
Of letters deir to Science, dear to Art, A Prince indeed,
Beyond al titles, and a houschold name,
Hereafter, thro' all times, Albert the Good."

## Medieval Ilistory.


(Q.) 20. When did the Saxon Ifeptamely becomo blented into one kingilom? By what namo was it subsergently finown? (iive the names ann? dates of its first and of its greategt king unler the Saxon perioul.
 contempurary of Charlemagne; it wias suluserguently known ley the name of limpland, $i$. ro, tho lame of the Augles. The areatest of the Saxen monarelis was Alfred, Sil, bastly honored with the surname of (ireat.
((l.) 21. Vame the two greatent commercial states of the midille ages.
(A.) Venice athe fiemon.
((Q.) 2.2. Sketela the chici features of the Fenher System.
(A.) About the eighth century, order began to appear in the formation of a mumber of isolased confederacies, the commencement of fendality, or thant gystem of for crmment wheh divided suciety into two elassess, lords and dependents.
Charles Martel, son of Pepin, conferred bencfices, tho holders of which were bound to fidelity and military service. They were called vassals, but had unly temporary possession of their fiefs (fides ic) from their suzerain or lord paramount. Charles the Bald made these benefieces hereditary, 877, when the royal anthority became prostrated, the count usurped their govermments as sovereignties, their wives taking the appellation of countess.
Under the extension of the Feudal System the lands were divided into three classes, viz.. :
1st. The noble lands. i. e., the fiefs, which werc divisible into simple tiefs, and the tiefs of dignity or the titlo lanils, sucil $\Omega$ the duchies, carldoms, countics and baronics.
2nd. 'The lotures, or lanis enfranchised from the fiefs possessal by loturiers, hable to feudality and subject to their seigncurs.

3rd. The Allodial lands, which every man possesses in his own right, without owing any revt or service to his superior.
Fach vassal was the licgeman of his superior, the great vassals being dependent on the Crown, and the small vassals subordinate to the great for the fiefs, which they held by homage. Therr dutics were military service, the defence of his lord from the machinations of bis enemies, and from attendance in courts of justice, to pay his lonls ransom, if he were captured, and to lee detained as hostage.

Feudalism was gradually abolished.
lst. Hy the estabhishment of Corporations, which ameliorated the condition of the Commons.
2nd. By the deatruction of the judicial powers of the seigncurs.
3rd. By depriving the Barons of the power of coiuing money.
Traces of the Foudal System existed till the French Revolution of 1759 .
(Q.) 23. Give the date of the Norman invasion of England, and the name of the battle which alecided the fate of the Saxons, with the names of the opposing chicfs.
(A.) Battle of Hastings, 1066. William, Duke of Normandy, a descentant of Rollo's, and Harold II., the last Saxon king.
(Q.) 24. Describe the social condicion of England under the Normans.
(A.) The manners of the ingto Saxons wero rude and semi-barbarous. 'ihe higher rlasses sat
at a round dable, to which none uf the inferior degree here adhitted. 'Their fensts generally ended in drumken revelry, null oven tho elerges were unt free from excess. The farms were smai!, but divided into meadow, arable pasture and woodland. The fichls were nsually enelosed; zardus and orcharis wero cistivated in favoratiflo spots, while roads aud peths united the towns and villages. Whenten loread was not in genenal use; the staple articie of foud was swinc's tieali; heef athl unttou were dainties, but saa .and river fish were largely consmanci. The clothing was chictly linen and woollen; the lleece was spm in winter by the females of every family, winatever might he their rank, the term eninstor still reminding us of This custom; they also excelled in embroidery and necrllework.
If the Sommans did not introluce tho fadal system into lingland, they at least brought it to perfcetion. (comuisaioners made inventorics of every kimi of property, and a universal spolintion of the Saxuns rewarded the Fiorman adventurers. The mame of Saxon bejame a term of repruach, and during a century not ono individual of this race was clevatcal to any ecelesiastical or civil dignity.
(1.) 2 i . Give a bricf acconnt of the Crusades, wit the dates, aml state ly whom the Iatin kid lom was overthrown, and when.
(2... There were eight ('rusailes or Wars of the Cross.
'eter the ILermit, a mative of Amiens, with the sanction of Pope Urban II., travelled through Italy and France calling on all trie believers to fight for the rescue of the lluly Sepulchre from the Intidels. He succesded in setcingo fire "to that inflammable mass of enthusiasm which pervaded Europe." The first Crusale dates from the Council of Clermont, in 1005, though it did sot set out till the following year. It was headel by Godfrey of Bouillon, and in 1099 Jerusalem was taken, sud became known as tho Latin Kinglom, the crowis of which was conferred on Godifrey. Subseryuently the total defeat of the Sultan of Egypt, on the field of Ascalon, completcly catablisheci tho Kingdom till 1187, when it was overthrown by Saladm the Great. Caliph of E. ypt.

The Ind Crusade was in 1147 , when Courad III. of Germany; and Lotis VII. of France took the cross. This was a completo failure, the army being wasted away in its inarch through Asia Mlinor.

The 3rd Crusade, 1189, was undertaken to recover Jurusalem, which had been re-captured by Saladin. It was led by Frederick 13arbarossa, of Germany, Philip Augastus, of France, and Richard 1., of I:ngland. Acre was taken by lichard, and he advanced within twenty milos of Jerusalem, but was obliged to conclude a truce with Saladiu and rcturn to leurope.

The 4th Crusade, 1195, unilertaken by Henry VI., of Germany, was marked by the capture of Beirout, and the iguominious flight of the Crusaders from the siege of Thoron.

The jth Crusade, 1202, was directed not against the Infidels, but against Constantinople, which was casily conquered, the Emperor deposed aud the crown conferred on Baldwin, of Flamders, with a fourth part of the Eropire, the remainder being divided between Thibaut, of Champagne, Boniface, of Montferrat, and Simon, of Montfort. Blind old Dandolo, Doge of Fenice, assisted in the capture, even fighting in person.

The Gth Crusade, 1227 , was conducted by Fredcrick II., of Giermany; his successes in Palestinc,
however, were rather werks of peace than of was, since he secured by treaty the possesaloa of . Jorusatem and Dothany, 1223 , in exehange for his afliance with the sultan oi bigyptagamet the Sultan of Jamascus.

I'he neventh (rumade wax unilertako a by limis 1X. of Franee, to reeover the Holy Cits, whech hat again fallen into the hande of the wowamenedabs. fe invaded begypl, enptured Damietia, was defeated at Mansurah, abd olduged to purchase his retreat lyy a mansom of 400,000 liveres and the restoration of lamictta.
 dertahen hy dounis IX., who was cut off by gestibence, and Prince Elward of Eughaml, after Eatwaril I., len his Crusaders to the Holy Sand, ime achicred mothing of eronserguence. He was the hast arnong Cheintian finces whodeant of reeovering the IToly Land.
(4.) ©(6. Explain the term "Invextuc."
(A.) (irogory Vll., Hildeiram, desiral to free the Church from the tenipural authority of laymen; that is, to deprive all princes of tho power of invest. ing hishups with the ramg and crosier, the syonbols by which the I'ope: and hmsolf conferred the spir itnal anshority. Ata (douncil held in the latheman Palauce, it was de lated that no laices shembe confer ecelesu:stical henefices, or clerks receive then from a layman, under pan of cexommunication. This was finally settlel at the (!oncordiant of Worm, IIte, when Henry $V$. of Germany ronouncel the right which he liad liutherto clammed, but retaisial his authonity over the tenupralities of the several dioceses.
(Q.) 27. 13y whom was the Sncicty of the Assatssiny foumled! :and by what name was ho ann hi'; sucecssurs linown:
(A.) By Hassan Seleck, a Mohammedan enthusiast, almut the year lo! o, amonne the hills sonuth of the Caspian Ser. Thuir motto was, "T'o the faithful nothing is forbididen." Hassan and his sucecssors were known by the naine of "The Old Man of the Nountain." The daggers of the assassins were ielt in the Bast and the West; :and by them perished Comrad. Margnis of Montferrat, in the streets of 'lyre, 1102. Prince Jilueard of Englami nearly lost his life also, hat throwing himself on the assassin, ho killed him with his own weapon. The sect lasted 172 years, and was finally destroyed by the Mongols. The Druses are said to have sprung from the Assaysins.
(Q) 2 . ( iiva an accomit of tha Moorish Dominat:on in Spain from its estalohshment to its final extinction in the Peninsula.
(A.) Tarik, the licutenant of Dimir Musa, eroysed the strzits of Herenles with an army, and, on the Fich of Neres, defeated Romerick, "the last of the Goths." Muse secured the conguest, and the Moylems cutablished themselves in Cordova, and from thint ceatre Spain, wheh had resisted the loman arms two hundred years, was reduced iy the Saracens in fifteen monthes. It ob. tained the name of the Moorisl ringelom, becnuse the sariceens embarked for the i'eninsula from Alauriannia (Mnocero).
Abdalrahman extended the Nosicm peower in Spain and consnlidated the thronc. The Gireat Mosencient Cordova was begin by hin. Its length was bive feet, and its width a;0 fest; 100 columns of marthle or of jasper formell the interior enclo. \&ile io the cuphla ; by means of 993 othicrn it was dieided intol! naves, all closed by gates of bronze
with eculptures in bas.relief, those of the great gatu ahome lecing in massise goll; ; , 700 limps illuminated the interiur during the night, and consuincel ammailly 120,0 (he lhs. of oil.

Alutalrahman 111., !1IS, estathisheal tho first medical school in Europe, and under hiw wise rule apriculterr, inamufactures aul commence if mrished. The ghori ms reign of this caliph was clesely folInwed lig the decay oi the Johamamel:a power. In the $\cdot$ ear ano the Chastan, Fualiname (inazales, fonndo. the $\$$ Singdom of Castile, wheh was united to Dem in 1037, under the soveruignty of Ferdinasnd i Navarre. The Mours at tinis time still pnssessed Andalusia, Ciranada, Jureia, part of New Castile, and all the sea-const from baseclona to the mouth of the lagus. Jiotrego Jia\% de Vivar, kncwn as the (ad, cousuered Valencia and ENerned it with the anthority of an independent anerecign. Alphonso il., of Castale, and Alphonso I., of Arraom, suceceded in all their umdertakings asmanst the Moors, and Arragen, Cow Castilu and Eistrentulura were possessed by tide Chmistians.

Gorlova fell in le3s , and in 1250 the Moorish dosainions had suak to the single province of Granada. On the acecssion of lerdinamand Isabella the long meditated plan of enpelling the Moors from spain was put in execntion. Ten years were spent in sangmary contests before they were endiled to leestego diranadn, which they invested with an army of $\mathbf{5 0}$, 0 or inen, aud aiter a blockade of nine mumths, the inhabitazits were compelled to surronder, $1.19{ }^{2}$. The Saraceus were not, however, linally expelled from Spain till the reign of Philip 111., 1610.
(0.) 29. By whom was the (aliphnte over thrown: Mentionsmmo of the celchrated Chicfs, and the empires founded by them, with dates.
(A.) By the Turks, a Tartar race. Asia, from the China Sea to the liuvine: was conquered by Cicnghis Khan, at the head of the Mongol Tartars, 120ti. Bagdat was taken 12.5s, by the NIongols under IIulaku. The conyuest of China was completed hy Kul) ai Khan, in 1279. Othman founded the Turkish or Uttom, Bmpire 1326. The Nogul limpire in Flindostan was established by Thmerlane, in 1398, and consoiniated ly lBaber, in 1525.
Q.) 30. Give brief partichlary of the founder of the Ilouse of Ifapshargh, and mention some celcbrated traveller who was contemporancous. Give the diater.
(A.) From 1980 to 1270 Germany was in effect withont any ruler, for though there were several, none exerciscel any real authority. In the midst of the petty wars that consued hetween the nominal fulers, the power and induence of the great commercial cities were slowly increasing, and from there alliances for mutual defence arose threc confederations, vi\%, The I!anscatic Leaguc, 1241; The Confeleration of the Cities of the lhine, ahout 120.5; and The Ganerbinatex, or Treatics of Succession aml Mutual Defence. At length ail parties bemg wearied by the long continued anarehy, it was determincd to clect an Empicror. The choice fell apoi lindolph of Hapsloury in Switzerlaud, 1273, who proved himself a, wise and just monarch, and hedevoted his attention to the intermal alfairs of Cicrmany. Such was the rise of the House of Austria. It was about this time, 1275 , that Maren Poln: is cruat Venctian travellice, crossed Asia, visiting Kublai Khan in Chinese Tartary, and having passed through China to the Pacific, sailed by Ceylon to the Persian Gulf.

## Literary Notices.

Natchal. Philosomis. By I'. Kirkland, M.A. Adam Millor \& Co., Isit.-Some time ago soveral Teachery' Associations united in requestige Mr. Kirkland, teacher of Natural Pholosophy and Natural Science in tho Horonto Normal School, to publish a book on Mechanics, or at least to allow his intes and questions to be printed. Whilo we do mot approve of the plan of recpuesting persons to write lest-lookex, or of having them made to orler, we know of good reason why the as8ocia. tions alluded to took the action stated. Attending these conventions of teachers were men who had sat under Mr. Kirkland's teaching, as by apt illustration, ani casy demonstration, the lecturer dissolved the dillicultics which his experience taught him are encountered by students in master. ing this important branch of applied mathematics. We are pleased to inform our readers that Mr. Kirkland has complied so far with requcsts made, both privately and publicly, as to prepare a treatise on Statice, which completely mects the highest expectations. A teacher of mathematics in one of our colleges, who has exumined the work, prol:ounces it " the nost valuable addition yet made loy a Canadian teacher to our acincol-book literature." Turning froas the history of the work to the contents we note that besides all the propositions found in Hamblin Smith's Statics, it contains many not usually found in elementary works. Propositions in moments and centre of gravity are much simplificd. To each scetion is added an Examination l'aper, which will thoroughly test whether the particularidea of the section has been fully grasped. A characteristic feature is the abundance of eminently practical questions and problems.

Examples :-
"Why cannot a round tub be stecred at as great an anyle to the dircection of the wind as a long boat?" P. 34.
"Why cannot a pin practically be made to stand upon its point?" 1'. 7\%. \&c. \&c.
The sections of cuch chapter are orranged according to difficulty, hence students reading for the first time can omit the more difficult sections. In reading such a book as Eamblin Smith's Statics the student finds a knowledge of trigonometry indis. pensable. Mr. Kirkland's Statics, although containing more than Smith's, is entirely comprehensible by the student who possesses it knowledge of the First Book of Fuclid and Simple Equations. The questions already given on Statics at first and sccond-class and to intermectiate examinations are apperided. Answers are give.a to all questions with hints for the solution of the more difticult.

The press work is very creclitable The relative importanee of the different definitions, principles and propositions are shown ly the type : the most important are printel in liack leller; others in Flalic. It has not yet passed the hinders' hands, but may be expected on the booksellers' shelves before May. No doult every candidate for certificate of the first and sccont-class will secure a copy of the first edition. We can heartily recommend it, avad hope soon to amnounce that it las been made an authorised text-look.
Hughes' Compositios Exhmersf Boorin Aelom Miller d. Co., Toronto.-Adam Niller \& Co., Educational publishers, have issued a sct of composition excreise books in three numbers, prepared by

Mr. James Hughes, I. P. S., Toronto, uniform with the apolling blanks which were published by the sance firm last year. Composition is a most important branch of public sehool educntion, but we regret to say, very generally neglected. In a few schools it is not taught at all; in many it is badly taught. $\Lambda$ complete composition lesson consists of at least three impostant parts : 1st-The preliminary instruction given by the teacher. and -The practice, $i$. e., the writhy of the composi. tion by tho pmpils. And 3rd-itho correction of errors. With many the second part alone passes for teteliny compositurn. 'the pupils of such making the same mistalies time after time, unchecked and uncorrected, must becomo conf ned in ${ }^{13 r}$ ticular crrors. Some teachers are satisfied with checking mistakes, and pointing them out to the pupils. This is not enongh; the walls only of the house have heer built; correction is recuired for the roof. 'liachers whose pupils use the Exeroise Books under notice, in the manner they are unmistakably intended, shall secore correction of mis. takes by the pupils.
Exercise Books Nos. 1 and 2 differ only in the latter having a larger clock-list of errors. Price, 10c. cach. No. 3 contains cight pages of instruction and explanation, including concise and comprehensive rules for punctuation, capitals, clearness, \&ic., \&c. 13riatol hoard; price, 2Uc.

They deservea ready introduction into Canadian schools. This we expect more confidently; know: ing that latterson's (Clincago) Composition Blank Books, which are similar, inet with an unusually large reception across the lines last year.

Convehsmpions on Important Practical Mattess By W. G. Moncritf. Toronto: Belfordl Brox; Lomion: Bcidld. Audorson. Price, 55 cents. These conversations are addecesed to parents and teachers, aud discuss in an intiresting and protitable mamer topics of highest interest to those upon whom devolve the teaching and training of youth, the developing of character and ingrafting of correct principles. The subject matiter first appeared in the London Adertix(r), and was tinen so well receivel thrst the author was reçuested to publish them in permanent form.

Belford's Afonthly for April is cqually as good as the former numbers of this popular Canadian monthly. "Canada a hundred years agg" is an interesting article, as also are "Forest langers and Voyaycurs," "Artificial lish-brceding in Canada," "rivenings in the Iibrary," "A I ondon Modern Green-rom," and "Cruise of H. M. S. Challenger," illustrated. The serials and other Departmerts are well sustaincd.
"The Ailventures of 1 Ifr. Verilant Grem," by Cuthbert Betle, N. A., has been placed upon our table. It is an irresistably funny book. "Ver. daut' has the happy faculty of mecting with more adventures, and more amusing noes, than ever before fell to the lot of mortal man. The story is made additionally attractwe los 1:0 humorous engravings.
"3"urough Firc and Watcr," a tale of 17jG, is a serial of considerable interest that has just been published in the landon Herctld, Mr. I.. F. Dixon, teacher, Ballymote, being the writer. Tue secue of the story is in the north of Eugland, near Solway Frith, and the writer shows considerable ability and five discriptive prowers in its narration.

## Educational Intelligence.


 on punt-enral ur us "printera' cigy." ucheh can be euclused in an enerlayc stumyed at the rete if ome eent ger hitlf oz.
-Cultivated tinber-A school Hemard.
-Prof. (ioldwin Sinith will return to Canada in July next.

- She bighest schools of medicine in linssia now receive females.
-I. M. Juchan, M.A., inspected (ionderich High School last month.
-St. Ilhomass is preparing to crect a Iligh Schesol luaiding to cost $\$ 10,000$.
- Lastowell is preparing to huild a school housc which will cost \$11,06K).
--Taurge liliot has received for her publisincal writings at total of $\$ 162,000$.
- Who Uho Conapulsory Eilucation Bill has leen passed by the State Leegislature.
-Incatrerage attendance in February of the l'atrolia l'ubhe sichools uats 412 ; total on register, 533.
- The Quebee Teachers' Association will hold its next ammal conventom in Shatrorook in October.
-I'lise Elgiu 'T'eachers' Aszociation mects in St. Thounas, on Friday and Saturday, April 2jth ind 28 th.
- Wincham has a school population of are, an incicase of 102 over last year. Total population, 2.022 .
-Onc half the students of the Kansas State University are laihes. Their average age is 18 years.
-The School of Agriculture at Guclph is to lie enlarged so as to accommodate one hurdred stadents.
-Why is a man who docsn't lose his temp:like a schoolmaster: Because he keeps cool (kecps school).
- Mr. J. S. Carson, I. P. S., Stralhroy, has been ill for several weeks and unable to attend to his public duties.
- 101 female studentr in the University of Nichigan. In medicinc, 37; Jaw, 2; homephathy, 2.; literature, 60 .
- Aylmer Mechanics' Inatitnte Directors are making .arrangements to adil ミ30J worth of yew books to the library.
-'The third term of the Whitby ladice' College opened with sevent.f-two boarders, the largest number of any session.
- At the last mecting of the Windyur Board of Eilucation, hev John hay way appointed ausistant master for the IIigh School.
-The contract for the erection of a new Migh School building in Cornwall has been awarded. The building will cost nibout $\$ 7,500$.
--Some vandals have minashed a number of the winlows of the school recently vacated lay the Cliristian Jrothers in St. Joln, K. 13.
- Four second-class teachers were angagod at a recent inceting of the Stratforl Schon Boani, mak. ang cightcen teachers in all on the staff.
- At the 8 th annual commencement of the Women's Medical Cullege of New Forli Infirmary tho graduating class consisted of 12 ladies.
-Mr. D. A. Maxwell, Mathematical Waster in the Strathroy High School, is guite ill, and will be unable to resume work for a few wecks.
$\rightarrow$ A young lad, whose teather is rather free I with the rod, remarked the other diay that "they had too many hollerdays at their school."
-Ihe Brantforl Colleriate Institute has soven teachers who recuive salaries as follows:- 81, bi50; $S 1,001) ; \$ 1,000 ; \$ 1,000 ; \$ 600 ; ~ \$ 150 ; ~ \$ 300$.
-The third story of the liyerson School, Toronto, is to be fitted up to make room for the children unable at present to ointain admission.
-The annual hoat race on the Thames between the crews of the Ewo great Iniolish Vniversitices of Oxford and Cambradge hat this ycar icsulted in a dead-heat.
-An exchange mentions some "new college builling, capnabe of accommentating two thonsand stulents of the mont improned ntyle of architecture." Are they ladics:
--'lhe folluwimg now school distriets have been formed in Manitoba, viz:-Meralow I.ea, Grecinwool; IRosscau, and Belle Plain. The clection of trusteces took place on March 31 st.
- "Pira, ought the tencher to flig a fellow for what he didn't do:" "dertainly not; my boy." "Well then, I wait to tell yout that he flogged me to day because I did not do my sum."
- Miss Mathews, a young laily in the Freshman class at Colliy University, Nlainc, has just received the prize for the best college preparation. The prize will pay her term bills through the course.
- "It isn't the 'unting as 'urts the 'oxsen' 'oofs," said a cockney, "hit's the 'aminering, 'ammering on the 'ard 'ighway." The same man went West, and at the third attempt to say Ho.i-ho broke his jaw.
-Another adlition of fifty dollars' worth of buoks has just been made to the Acton Public Library, making the present number of volumes alsout 1,300 , many of which are very valuable works.
-The procecds of a literary entertainment held in the school house in Tranyuility, Brant Co., amounted to ncarly $\$ 2$ which will be expended in the purchase of anditional books for the library in comection with the school.
- Ainong those who pasbed thorecent Cambritge local Examination wath honors way a lad named Finrow, who was alisolutcly deai and dumb. He is under 10 years of asc, and has obtained a certificate for classics and methematics.
- Female music teacher to almiring young genterman pupil :-"Jry again, Mr. C-M Pupil"1)o, re, mi-.." I'encher-"'That, won't ito. You do not hold on to ini long enough." Lupil (wist-fully)-! I wish I had a chance to.".
- $\Lambda$ few days ago Mir. J. Carson, Principal of the I,ondon Central Scloosl, was presented with a number of volumes of standard works, and an addrcas from his pupils. Who had just pressed into the: ligh Scheol. Tho oldress containcd expressions of tho resret folt by the graduating members at leaving ilr. Carson's clans, and was 2 high tribute to the estecm in which that gentleman is held by those under his tution.
-In $18 i=1$ the grand total paid for celucational purpeses in Ontano wiss first appreximately ascertrined as soios, 9so. In 1861 this had risen to
 S $3,823,959$. Such facts speak for themselves.
-The proposed amalyamation of the Tumdas High school and Weyleyan Institute his been abandoned, the Institute Board not lecing willing to guaranteo the support required by ine lligh School I'rustecs who proposed to furnish the teach. ing stafl.
- Owing to the change in the time of the summer holidays the mectings of the Provincial and Eastern 'Leachers' Associations will fortunately not contlict. The latter will incet at lirockrille on the 8th of August, tile farmer at l'oronto on T'useday, the lifth of the same month.
-The combincel offices of Dinister of Eilucation anll 'reasurer of the J'rosince of gntario have becon separated. Hom. Mh. Ciouks has retinined the oflice of Minister oi Fiducation, anl Hon. Mr. Wood has tatken the Treasurership, Mr. Harcly (Brant) becoming P'rovincial secretary.

We learn from Mr. Me.Murchay, Scerctary, that there are 400 or 500 eopies of the Minutes of the Provincial dssocintion on hand yct. 'Ihe Inspectors or Scerctaries of the different local associatious should send for as many copies as they think will be disposed of at their next meeting.

- " Did I not give you a flogging the other day?" " said a schoolmaster to a trembling hoy. "Yes, sir," answered the boy. "Well, what in the Scriptures saty on tho subject?" "1 don't know, sir," said the buy, "cexcept it is in that passage which sitys, 'It is anore lolessed to give than to reccive.'"
--The Litcrary and Historical Society of Qucbec has taken a step in tho right direction. It proposes to set apart a spetial department of its library for Canadian works of all kinds. This will form an adeniralile record of our literary pro. gress, and in tame will be extremely valuable for reference.
- A sehool cahibition was given in Cookshire, Quehec, March 15 th, the entertainment comsisting of instrumental masic, songs, tableanx, dramas, dinlognes an! exsays. A clance conpleted this rather extensive programme, and if the yuctity was ats goord ay the guminty we presume overyone got his money's worth.
-At the exnmination of a certain gehool, a reverend gentleman was asking the class the meaning of worls. They answered very well till he gave "backbiter." This seemed a pureler. It went down the class till it came to a simple little urchin, who looked shecpishly knowing, and said, "It may be a ilca."
-The National Teaclicrs' Monthly says:-On. tario not only sets a goorl exnmple to the other Canadian Provinces, but to us also in maintaining the efliciency of her public schools. No backward steps are taken, aud the Government even aug. ments the annual appropriations in the ertimates for the current year.'

Six echool-mn'ams of ('entral New York have recently started for Buenos Ayres, South imerica. Thuy each get $\$ 300$ in goll for the exprenses of their passage, and a salary of $\$ 2,400$ in gold for fivo years. Then they are to get a six months leave of alsence and $\leqslant 300$ in gold for the expenses of their trip to this country and retmin.

- A little feur-year-old boy, who had heen taught his letturs at home and felt his importance, on going to school, was called up by the tracher, who askel, "Chan you read my boy "" The little fellow stond amazal for a moment at the impertinence of the uacstion, and then exclained: "Haint you got check!"

Ihla Story, a little girl, six years oll, in Cioderich, has leen made a cripple for life by jumping on and falling effa aleigh onher way home from sehool. The sleigh jassed over her, breaking her leg near the thigh. Teachers have control over the actions of chilifren on their way to and from school, but scldom excrcise it as they onght.

-     - Onc handred and seventy volumes were added to the state University at Ann Arbor during Fel)ruary: Gne of the principal of them is a work of twelic volumes catitleal "The Jingineers' Mamal of Roads." 'The U'inted States Centennial Commission hats pregented the library with sixteen volumes, all of them pertaining to the Exposition.
- Huring a reeent examination of a class of youngyteis in a County school, the teacher nsked. "What is a monarcly swered by a bright little cight.year-old boy: "A country governed by a king:" "Who would rule if the king should dic:" "Phe quecu." "And if the "fuecn should die, who then would le ruler:" "The jack."
- A corresponident of the Iondon Spertator proposes that it college for women shall be established at Malvern, Hingland, which shall bear the same relation to Onford that (iirton does to the liniversity of Cambridge, and which shall give women practically all the selvantages in literary and general culture which are offered to men in the Cniversity itself.
-Thancex annual meeting of the National Educatiomal Association and its associated dejurtments will be held at Lomisville, Ky., on Juesday, Aug. Ifth, and the two following daya. The programane of Exercises will be annonuced in a future issue together with the hotel and railway arrangements. II. A. Newel, Est!., Baltimore, Ml., is President of the Assuciation.
-A depmeation from a mumber of the matepayers of S. S. Xo. $\delta$, Goderich Township anked the Council to sul? !i: vide the Scetion, so that two sehoolhouses might he luilt at a moderate cost instead of one costly one. The Council could do nothing, as the law provides for the crection of an additional school-hense on the application of the 'rinsteces to the Connty Iuspector.
-The state of colucation has leen attracting thenghtful attention in Jindsay, and lart month a mecting of the teachery and trustees of that town was lield to liscuss matters of prospective inprovement in the sehools. Frepuent mectings of this kiml for an interchange of views would hinve at beneficial effect in kecpung up the interest in matters pertaining to the sehools.
-On Washington's birthelay the students of Nilcy, Michigan, High Sclionl got a suiff of tho florious air of frecelon, and full of the splirit of Piberty, petitioned the Professor for a hialf holiday. Their minyer heing ignored, they resolved not to submit to tyranny, and rebilled, all but four marching about singing songs of defiance, love, victory, war, peace and liberty. Hurtah for Wishington!
-A school.boy was asked hy his teacher to givo au example of earnestness. Ho looked bothered for a moment, but his faco brightened like the dow.drops glistening on tho loares of the rose in early mormng, as ho delivered himelf of the following happy thodght: "When you see a hoy engaged on a mince-pie till his ears droop, on tho outer crusts, you may know he has got it."
-The death is announced of Mr. Charles Cowden Clarke, the Finglish author, in his nintieth year. Mr. Clarko's hest known works are Shakesperian Characters, Molicre Characters, Thies from Chaucer, Riches of (Chatecer, amm a series of Lissays on the Comic Writers of Eingland. His name is also familiar through the magnificent and atandard Shakesperian Concordanot published hy his wife.
-The New York Sun has heard of a yonng Jing. lishman who is handsonne, a periect linguist, a grit duate of Baliol College, Oxford, an accomplished gentleman, and, in spite of it all, serves well in the capacity of hutlor in a New York family. Did any one crer know of a more leautiful instance of genius rising superior to circumstances? Few young men similarly endowed could retain in alversity the proud spirit of a butler.
-Stratforl l'ublic Schools are prospering. The Fcbruary report shows an averige attentance of 903; being 6:5 higher than in January, and 17 higher than ever nttained before. In consequence of a want of proper accommodation, pupils hare to attend schools outside of the wards in which they reside. In the High School the number on roll for February was 100, average Sï; heing 30 por cent. more than same month last year.
-Some time ago prizes were offered by the llussian (Jovermment for the best and second best essays on "Cavalry as a military arm," the prizes heing $£ 600$ for the best, and about half that sum for the second best essay. Forcigners loeing allowed to compete on condition that their essayn were accompanied by IRussian translation, It. Col. Dennison, of Toronto, has lecome a competitor, and, from the reputation he lears, we should not be at all surprised to hear of his success.
- A short time ago a son of William Tyler, Tondon, played truant, and did not return home in the evening. Diligent search was male for him all night, lut he conld nit be foumi. In the mornung lis body was found lesaide the railway track, albout a mile from the city, the neck being broken. He had been stealing a ride and when jumping of the ears had met his death. He was not filled because he was playing triant, but if he hail not played truant he would not have loeen killod.
-Donald J. McKinuon, Escı., I. P. S., Co. Pecl, will issuc in June noxt the first of a series of half. yearly Promotion Exercise Papers, which are designed" to (lst) guide the less experienced, and strengthen the hands of all teachers in their cfforts to secure a fair and thorough classification of their schools: anll ( 2 nd ) make the system of classifica. tion throughout the county as uniform as possible, and this materially mitigate one of the crils How:ing from the too freguent change of teachers in our schools."
-The Compulsory Education Bill is before the Illinois Legislature. It proviles for at least 12 weeks' schooling annually to every child of school age, sud prolibits the employment of shildren in factories, otc., unless they shall have had the resuisite period of schooling the jear before. The
school hoands are invested with authority to exccute the act aud to bring its penalties to bear on those who violate it. Parents, guardians, or employers who crade or violate the law are punish. able with a fine of $\$ 5$ tu $\$ 50$.
-Tho Elucational Department is erecting in Euglanil n ucw class of schools, to ic known as "Certificated Dillicient schools." They will not be necessarily in receipt of aid from the Yarliamentary grant, but must be open to inspection, and havo all eliss jooks aud other details in conformity with the Code. As after 1878 ehildren undur fourteen years of age will not be allowed to labor umless they have il certificate of having passed a certain school standard, these schools are boing organized to meet that requirement.
-A meek-looking hoy was intently pegting along towards a certain school house the other morning, when he wag met by a crowd of his fellow-schoolmates returning with their books under their arms. Upon perceving their school-bound comrade a chorus of cat-calls and shrieks rent the air, hats were thrown up and heels were kicked ditto. "What's up?" inpuired the lone boy, with a grin of anticipation spread all aroumd his face, anj oven back of his ears. "No school?" houled the mol; "tencher's sick !" And another piean of praise ascended from their united voices as they all turned the corner on the jump. A boy is a fums: creature.
-Normal schools in some of onv neightoring States have lately been the subject of consiterable discussion in the legislatures and elsewhere. In kansas the Iegislature has unt only refused to reestablish Normal Schools hut has withdrawn ts support from the Stato University and Agricultural Colloge. This unfortunate retrogrossive step will, uo doubt, be resretted by the people of that State. Mame and Minnesota have, notwithstanding strong opposition, secured amplo appropriations for the eflicient support of their Normal Schools. New York also, after a determined assault by the opposition, has stecured the Normal School grant.
-In 1842 the population of the Province of Ontario was 476,055 , not 80 much as the school population is now, There were then as High Sehools and 1,721 liublic ones. In all, there were of every kind 1,795 educational estallishments, with $6.5,978$ pupils, and salarics were paid to the extentof SISG,000. By IS:32thupopalation bad more than doubled; the number of High Schools had riser to 60 , tho Pullic Schools to 2,992 , and the total ciucrionn establishments to 3,202 . The mumber of scholars lind risen to 179,585 , and the moncy paid in salaries to 3428,943 . In 1562 the number of High Schools vas 91; and there were 3,905 Public School, while the number of pupils was 323, 033, and the amount paid in salaries 3959 ,776.
-According to a London correspondent, the original of (iwendolyn, the heroine of Gicorge Eliot's "Danicl Deronda," is a lady now living in london, who some ycars ago was possessed of nearly a million dollars. She went to the continent and became "au infatuated gambler," losing pearly all her money, and parting with her necklace, as the book states. During her infatuation she wis narrowly watched ly (icorge Eliot, and also by a wealthy gentlcman living to day in Manchester. So interested did he become in "Gwendolyn" that, as the book stated, lie offered to
make gool her lossey if she would cease to play, but she refused. (isemdolyn is now about -2 years old, mmarried, gramd-laughter of one ei England's greatest poets, but l'ves on an income of abont a thousand dollars a year, all that was saved from the wreck.
-I: J. Moloney writes from Penctanguishene to the bundas Stunifrol as follows:-"You might insert this in your paper. I ant engaged by the ! Jmeralid Bese Ball Club of Joston at it salary of $\$ 2,700$. I was raised around llunds. Am teach. ing sehool here, and I always call to seo you in the summer vacation. If you insert, send the paper with insertion." Now there it is azain-another proof that teachers are not sufliciently remunerated for their services. When will trastecs learn to appreciate tho labors of those whose abtounding abilities command for them such hamdsome balaries ( 89,700 per mon $/ 4$ we suppose) ss is now elatimed ly this young man who "was sansed around Jundas ?"
-If the following is a fair specimen of the articles that appear in the local column of the Brant Union we should judgo that its editor was a boy-a line buy-one who, on accomint of habitual unughtiness, was often whipped nul placed upon the clunce's stool, amd that in conseruence of this punishment ho did not love his teacher. Perhaps 'tis eren so :--
"Father, who is that I sece
A rushin' down the sticet:
Why doesshe hold her heat so high, And drag her great big fect?"
"'What? Why that's a schoolnarm, hoy, Who's just received her pay;
Sho's only a maid that's filled with joyBy Hokey! get out of her may:
-At the opening of the Iritish (Cambia I, egislature, a few weeks nojo, his Fixcelleney the lient. Govornor referred to educational matters ns fol-lows:-
"In respect to school matters, changes have been made in accordance with the expressed wishes of this homorable legislature at its last session. A Deputy-Supurintendent has been appointed for the mainland, and it afforis mo pheasure to say that the important institntion at Cache Creek, that had been allowed to fall into decay and much diminished usefulness, has sinco the appointment materially improved. A High school, to provite for free instruction in the higher branches of education, has also been established in this city. It is doing very useful work, and has already proved to be a very valuable adjunct to our school system."
-A daughter of Mrs. Kecgan, of E3 McCord strcet, Montreal, who is at school tcaelice at a village named Minuth, in Ontario, scint her mother Sojim a registered letter, on March Sth. This: letter was delivered on the 12th by the letter-carrier, but, on opening it, it was minus the money: On scuding after the carrier and informing him of the alistraction of the notes, he said he thonght at the time of delivery it had been tampered with on accomint of the letter being so thin. Complaint was made to Inspector Jing, who examined the letter and crivelope, and who expressed his opinion that the money must have been in when the enve. lope was stamped at York liver, as the impression hat not penctrated the paper. The Inspector has written to the Postimaster at Kingston, in whose alistrict York liver is situnted, aloout the robbery.
-The State of New York owns school property to the amount of $831,017,004$. The number of pupils attending the public schnols during some portion of the past jear wns 1,063, 199. The whole number of teachers employen was 30,10 , and their aggregate wages reach $\$ 2,90.5,50.4$. The average compensation in the cities is $\mathrm{Sr}_{\mathrm{F}} 40$, and in the towns, S237. The state school tax for the current tiscal year is $\$ 2,757,0.5$, and the income from the common school and linited Status depusit fands brimgs the available amome uy to 83,132 , 7oy. The total expenditures of the past fiseal year were $: 11,439,0: 35 . i s$, the latger portion of which was furnished by lucal tax. Superintonient (ij). mour urises tinat an ordor to secarugrenter eficiency in supervision, canclidates for the oufice of school commessioner be regured to bo the lioferers of Niate ecrtificates or of diplomas. fiom one of the highest institutions of icaming.
- The school premises oceupical hy the Christian Brother; have been transferred to the St. Jom (N. IB.) Puthlic School Board, on the umberstanding that in these schools none bat laman (iatholic teachers wall lecemployed. All teachers mast bo regularly licenced ani chedageal by the phblic Sochend Boarl. In vew of the fact that in New hrunswick every ratepayer is tancel fon the support of Pablic Schools, and that supporte:s of Suparate Schouls have, thercfore, to sulhmit to being donthy taxed, this compromise may be regarded as a genume triumph for mederation and liberalism. The ('hristiom Jrothers consider the Bishop acted hastily in aceepting terms from the Buand which were obnosions to thum, ju:smmel as certain rules of their order prevent their teaching under the liseo School Boarl. They will, therefore, return to Montreal in a few days. The Schools taught by the Sisters of Charity will come under the new arrangeanent also.
- The session of the Ontario Veterinary College just clused hish huen the most successful in erasy respect that has yot been held. The institution has been so improved in si\%e and convenience that it may almost be said to be new. The accommodation for horses is vely complete and adapted With all the modera appliances of : horse hospital. 'lhere is room here for alonit forty horses. The students' room are also ample and correspondingly improved. Whe dissectang room is now, in the opnimion oi Professor Buck hand, as good as it comhd be made, well lighten, and fitted with gas, water, and mechanical means for moving the bulky sub. jects that are displayed here. This is prohably the most important improvement in the College. In the front of the bnilding up-stairs is a spaciots lall, where there is alreaty a muclens of a museam containing anatomical premarations, and an extension of this collection will prove of value to the future students.
- The Iondon School Board have printed iniormation regading the calaries of teachers in t!e schools under the board. The largest salary paid to any one teacher is $\$ 975$, and this is supplemunted by the loovernment grant in a very large school amounting to $\$ 47 \mathrm{~s}$, with $\$ 1.50$ for the instruction of pupil teacliers and $\$ \mathbf{2} 4$ for diawing grant, making in the whole $\$ 1,627$. Jhere are four in the london sehool system receiving more than $\$ 1,500$ per annum, including these extras for work. There are cleven who receive from all sources $\$ 1,250$ and under $\leqslant 1,500$; thirty-five $w ? 10$ receive ahove $\$ 750$ and under $\$ 1,000$; sixty-four who recewe above \$i25 and under $\$ 7.00$; 10\% who
receive over $\$ 500$ and under $\$ 625 ; 111$ who rozeive $837 \overline{0}$ and hot over 8.500 ; and 41 who receive under \$365. No houses, rents, or other domestic aids aro given to any of the teachers in tho Board schools. Fvery teacher has to lo qualified accord. ing to the Govermment standard, ani the cxamimation course is now very strict.
-At a meeting of the Senate of the University of Now Brunswick the following resolution, proposed by tho Presuient for cousideration, was adopted and passed by the Senate. "That students in Theology may find within the Province the means of instruction in The ology and the tenets of their regpective Churches, and that the ties which after their Arts course linds them to the University be not weakened ly aiter attendance at an institution entirsly unconnectel therewith, it is desirable to cheoura; the furmation of Theological Halls or Colleges, and antiliate the same with the University. Be it therefore resolved, that until a separate building can be crected and maintained at the cost of the several religions bodies concerned, the nse of a lecture room in the University be granted in the afternoon during term time to any Church or denomination with a snitable professor or professors for giving theological instruction to the students belonging to the sail Church or denomination."
-A very interesting fact brought out in the ro. port of the Ontario Schools for $15 \% .5$ is, that while so much is sadd about Roman Catholic separate Schools, and their necessity for the preservation of the morals of Roman Catholic children, the number of Roman Catholic teachers in our Public Schoods is every year increasing. In the Province there were in 1875 6,018 certificated |teachers-au increase in the year of 252. Of these 720 were Roman Catholics, of whom 516 were employed in the Public schools, and only 210 in Roman Catho. lic Separate ones. Let it be noted still further that while for 1875 there was an increase on the previous year of 34 Roman Catholics holding certificates as teachers, there was a decrease of 68 teachers in tho Roman Catholic Separate Schools, while in the schools themselves there was a decrease of 10 . Their income from all sources was $\$ 90,626$, or little more than one-fortieth of that of the Pub. lic Schools. In 1855 Roman Catholic Scparate Schools were established. During that year 4, S85 pupils attended those schools, while in 1875 the number had risen to 22,673 .
Among the inmates of a charitalle soup house in St. Louis is a graduate of Harvard who is well connected in the least. Ho has been unfortuaste in his efforts to support himself, and is too proud to write to his friends and let them know how wretched a failure he has made since he was graduated. He goes out every day in search of work, and gets an odd job occasionally. His habits are good; he is intelligent; he is careful of his pennies and is striving to save enough to take him to another town. The moral right of a man, who lhas friends that are willing to help him, to fall back upon public charity nay well be cquestioned. The incident, howeyer, illustrates a condition of Ameri: can society which has not been knoun to within a fow years. Elucation is not as valuable capital as it was twenty or fifty years ago. It was casier then for s college graluate to win immediate success than it is now. He lad only to go from college to a village in a Western State, and the natural growth of the town would set him ou his feet
and enable him to male rapil progress in profes. siomal or business life. Collegians who aequire liturary taste and culture at their university, but who are alowe following their fathers' calling on furn or in shop, now have to struggle terribly hard in American cities, Bast ane West, to keep the wolf from the door of professional life.
-The Sonate of the Cuiversity of Lomion has deseided, by seven votes to furtech, to grant medical degrees to women who have gone through the preseribeel training and can pass the examina. tions. The decision is of importane not only to the medical profession and to those ladies who wish to cater its ranks, but to the public. The history of the agitatimn for the admission of women to medical qualifications is a curious one. It has been going on for years, and the licensing D, ulios ha:e acted for the most part in a strangely vacillating mamer regarding it, as if they could not make up, thair mimids on the puestion. Thus the authoritics at Apothec:aries' Hall admitted one lady, Mrs. Garrett-Anderson, and then refused any osbers. In Edinburgh, too, where the ladies, who bore the Eschylean nickname of the septem conto © Lilinam, urged their claim with much energy, the University acted most capriciousl; and illogically. They were admitted to the lectures, but refused prizes when they won them; they were allowed to go throngh the curriculune of study, but not to competo for the degrec.
- When an editor under the healiag of "Whacking a Schoollow" "gives a report of the trial of a te:cher for punishing one of her pupils, it shows that his desire is tu make his paper as sensational as possible. When other cditors cops the article thus headed, the people are reminded of the fact that when one sheep jumps the rest of the flock do likewise. When the editor who wrote the article under "Whacking a School-boy" did so, he stated what was untrue when he represented that the teacher hail to pay $\$ 3.20$ costs for "i)rutally whipping one of her scholars." The scholar was a hulking lad of serenteen years of age, and the teacher was a laily who was umable, however willing she might have been, to preform such an herculcan task. Moreover, the acase was never tried, the friends of the lady haring, murisely, we think, agreed to compromise the matter by paying the costs incurred rather than allow her name to be published in counection with the matter as it has been. We enter our protest, therefore, against the action of our contemporary (who is unkuown to us) in whose article the lady, though untried, is pronounced guilts; and who has caused her name to be heralded throughout Canada as one who is unworthy to ocenpy the houorable position of a teacher.
-The Government of lrance have taken the first steps towards estallishing free and compulsory cducation in that country. The standard of educa. tion, except in the cities, is very low; in some departments in the south, ceutre aml west, more than sixty per cent. of the peasantry being unable to read or write, while in $18 \% 2$ the average number with that lowest standard of elucation in the whole country was thirty per cent. of the population. After the Franco-German war, Frenchnen learned that nuch of their military inferiority was due to their inferiority in ellucation, and MI. Waldington, whose Ey:glish education has imbued lim with liberal views, proposes to give to all communes special power to make primary education gratuitous,
and to defray the expenses by the imposition of rates, and also enable them to borrow from the State for educational purposes at the rate of three peir cent. The great opposition to this proposal will come from the Catholics, whose iniluence in the matter of education has been the controlling one, being so strong that private schools have been closed by the elergy because merely secular, although the parents of the scholars did not desire religions tenching in the schools. Besides, only one thousand out of the thirty- eight thousand schools in France are not strictly Catholic.
-Mrs. White, London East, still contimues to meet with the East Middlesex teachers and others on Saturdays, for the purpose of giving instruction in her method of teaching singing and rearling, simultaneous and individual recitation. These lessons are very profitable to the teachers, and, evidently, much appreciated, as some come long distances to attend them. Singing should be taught or allowed in every school. Its moral and physical influences camot be easily overestimated. We know of teachers, not singers themselves, who have singing in their schools by taking advantage of the Sunday School teaching, and encourage the children to sing the hymns there learned, under the leadership of one of the pupils. Two weeks ago at Mrs. White's class, Messrs. Reid and Anderson distributed sample copies of a collection of hymns made by the Rev. Mr. Gall. This collection is very suitable for those who have to rely on the Sunday School singing, as it contains about 200 of the most popular hymns, such as "Hold the Fort," "Sweet By and By," "Over There," "Daniel's Band," "The Gate Ajar," "Only an Armour-Bearer," \&c. It gives the air, and can be placed in the hands of every child as it costs only five cents. The want of a good collection of pieces adapted particularly to Canadian schools is much felt.
-What's in an Education?- As there are those who entertain grave doubts concerning the benefits of education, we believe we have only to introduce the following interesting report of an interesting conversation upon an interesting subject, to convince them that the want of education, sometimes at least, places very good people in awkward positions :- "My dearest Fanny," he said, as they stood beneath a tree in a flood of moonlight, "I have longed-oh, so longed!-for this blissful opportunity ; and even now, I hardly dare to speak the swelling thoughts that struggle up for utterance. Not in the blistering glare of the noonday sun would I whisper to thee of the sweet love that has tipgod my whole being with a celestial brightness, but in this soft silvery sheen of the constant moon would I syllable forth the ecstatic song of Eros. Oh! canst thou realize how like the radiance of heaven thy beauty beams upon me? And shall not the blessed boon be always mine? Wilt thou not henceforth, for all coming time, give me the right to shield thee from the rough contact.and chilling blasts of an unfeeling world? Oh ! if thy smiles could be mine while life should last, they would shed-a-a-ah, my dearest, they would shed-" While he hesitated and stumbled for a . word, Fanny eagerly whispered, "Never mind the wood-shed, Albert, but go right on with your pretty talk."
-The Brant Teachers'|Association metin Brantford on Saturday, March 10th, about fifty members and a number of pupils attending. "Entrance

Examinations" was first taken up by J. Mills, N. A., Brantford Collegiate Instituto. He deprecated the addition of the whole history of Eugland, lately introduced by the Central Committee as one of the subjects for entrance, and considered that it would have been much better to have oonfined the candidates to a specified portion of the work. He insistel upon earnestness on the part of teachers as well as indastry and promptacss and aecuracy, on the part of pupils. Other speakers agreed with Mr. Mills that the programme was too extensive. Coneernirg aceuracy, Mr. Davidson, St. Cieorge, cited Prof. Young, whose opinion is that if correct principles were employed, for example, in the solution of mathematical problems, it mattered not whether the result in every case were a correct one.
"How to teach a c’ass," was illustrated by A. T. Watson, Langford. H.e first introluced a class of small children in the tablet lessons, their earnestness, cagerness, and evident desire to do their very best, being so apparent that their efforts were highly appreciated and complimented. Classes in the second and third books did equally well, and Mr. Watson explained his mamer of teaching Elocution, and of advancing pupils from grade to grade. During the day Mr. Watson and his pupils visited the Blind Institute.
Chairman Kelley, I. P. S., discussed the 'Feasibility of Establishing County Model Schools," and considered that with the means at our disposal at present it would be almost impossib'e to sustain efficiently such ingtitutions; that in the rural parts of the county there were probably not mone than three or four centres in which such school could be established; and that as only onehundred dollars was provide as extra support. there was but little chance of making such a school, if established, a permanent success.
M. Wilkinson read a good, practical essay on "Teaching." A reading, very well done, by Miss R. S. Smith ; an admirable essay by Miss Clarke ; and a reading, given with much taste and precision, by Miss Jennie Woodyatt, completed the programme. The annual meeting of the Association will be held in June.
-Wentworth Co. has one Separate School and' 72 Public School Sections, 13 of these being Union Sections. In one school, 4 teachers are employed; in one, 3 ; in ten, 2 ; and in all the others except two that have paid monitors in the winter months, only one is employed; total number of teachers, 88. During the past five years $\$ 64,000$ have been expended in furnishing adequate accommodation. Twenty-four new school houses have been built, and 27 improved. Twenty-four school sites contain not less than an acre, and 37 not less than half an:acre. In 1875 the total receipts for school purposes was $357,528.85$; of which $\$ 8,223.47$ was Legislative and Municipal grants ; $\$ 35,445.99$, from taxation on property : and $\$ 13,855.39$, from other sources. The amount paid for teachers' salaries was $\$ 30,956.08$; for building school houses and purchasing sites, $\$ 14,592.94$; for incidental expenses, $\$ 7,939.12$; making a total expenditure of \$53,492.14, and leaving a balance of $\$ 4,036.71$ in the hands of the various Boards of Trustees. The average rate of taxation was $3 / 5$ mills on the dollar. Of the 88 teachers employed, 49 are male, and 39 female: Of these, 72 have charge of a Public School; 1 of a R. G. Separate School; and 15 are assistants. The iverage salary of male teachers having charge of a Public School is $\$ 426$,
of females $\$ 233$, of nssistants $\$ 102$. 'There were $\boldsymbol{i}_{1}$ teachers holding First-Class Provincial Curtifientey, ed Seconl-Class lrovinuial, 17 First-Chass Cimaty Board umler the old let, 35 'Third-Class County Boaril maler the nen. Act, and 2 Interim Centefieates. The arerore imerease of the manary of male teachors since 1571 was $\$ 60$, or nearly 27 per cent.; of females, $i 34$, or hearly $1: 1$ per cout. The highest salary paid tu a male teacher was Siaj, the lusest S 300 ; to females $\$ 100$, the lowest $\$ 200$; to assistants $\$ 2.2$, the lowest $\$ 120$. The total numirer of pupils reqistered during the year was $7,17^{7}$; of these $7,0: S$ were baween the ages of $\overline{5}$ and 16 , and det of other ares. The mumber attculico less than 00 days was 9,126 , or over $2 S$ per cent of the registored number; between 30 and 1,50 days, :3,(ies, or nearly 49) per cent. : between 150 day's and the whole year, 1,693 , or 23 per eent. nearly. The average attendance for the first half year was $3,3: 3$, or over 4.5 per cent; for the second half ycar, $2,-$ 9S2, or a little over 40 per cent., giving an average of neally 43 per cent. for the year.
-In ascordance with the sugesestion of the Central Committee of Examiners, the following modifications will be made in the subject prescribed for candidates for entrance into Collegiate lnstitutes and Figh Schools, and the same shall come into effect at the lixamination to be leld in Jume next, viz. -
I. Candidates will be cxamnined in the leading facts of English History. The guestions set will not demand a minute linowledge of details, but will be strictly limited to the outlines of the subject.
II. Candidates will be examined, as heretofore, in realing from the Fourth Reader, pp. $1-206$; but they will in addition be expected to show that they understand the meaning of these reading I essons.

They will likewise be examined more minutely on the selections enumerated in the following list, and they will be required to reprodnce the sub)stance of one or more of them in their own language :-

1. The Norwesian Colonies in (ireenland. Scorcoby.
$\because$ Tho founding of the Niorth American Colonies, -Pedley.
2. The Voyage of the "Golden Hind."-। British Enterprise.
3. The Discovery of America. - Rubertsun.
4. The death of Montcalm. - IIackins.
5. Jaçues Cartier at Hochelaga.-IInekins:
6. Cortez in Mexico.-Cussell's Paper.
7. The Buccancers - The Side
8. The Earthinake of Caraccas.-IIumboldt.
9. The Conquest of'Peru.-A Anatsof Romantic Aelecntures.
10. The Conquest of Wales. - White's I.tmelmarke.
11. Hermann, the Deliverer of Germany.Jerer.
12. The Burning of Moscow.-Sejur's Narrative.
13. The Battle of Thermopylae.-Ralcigh.
1.5. The Destruction of Pompeii. -Magazine of Art.
14. The Taking of Gibraitar. -Overlam Route.
III. The local Boards are directed not to almit
candidates that fail to obtain one of the marks given for the parsing question on the paper in

- The ammal repurt of the sehuols of Ontario contains very pleasing evidence of the progress of , ellacation in our lrovinco. We subjoun the folluwing report of attendance from the Glube. -
"The sehed puphation at the date of the refort was i01,03s, but this was thenght to be below the real number. The tutal number of pupils at. temditas schuol bas $4-4,041$, an increase on the car of 10, 194. The number repurted as not attending school was $10, \mathrm{~S} 09$; but this mus', be far below the mat for very many returned as selolars only attended a fen ilays in the courso of the year. The average daily attendance was only 19S, $\overline{a r} 1$. Of the phinly entered as at schon, $48, \underline{2 l f}$ attemed less than 20 days during the ycar. No one could say these got anything to be called education. Then, of those who attemied 20 but under 50 days, there were 93, 391 ; and of those who were 30 up to 100 lays, there were as many as 12 (isi0). This wouli show that $26 S, 1 S^{7}$ pupile, or a great deal more than one-half of all in attemance during IS75, were at school for less than in hundred days. lt is also to he noted, to make the thing worse, that this attendance was fitful; that now they were a day or two absent, then again present, and so min, making the good they recciven mfintely small, lut the evil they indicted upon the gehools formidably large. Of the whole number of $474,-$ $\because-41$, only 19,004 attended more than 200 days during the whole school ycar. This is a very unsatisfactory state of matters. We notice that there are twenty-five different branches of instruction in the Public Schools. Thus must necessarily involve in very many cases a large amount of superficial work, and the neglect of the more ordinary but more important branches in which alone the great majority of the pupils can have time to receive instruction."

The amount of money experded cluring the year was $\mathrm{S} 2,993,0 \mathrm{SO}$. The total receipts were $\mathrm{E} 3,305,-$ 454, while in 1860 they were only $\$ 1,304,272$. The highest salary paid to any teacher in a city was $\$ 1,000$; tho lowest, $\$ 400$. In a comity, the highest, SS00; the lowest, Sle0. Male tenchers' salarics in counties averaged $\$ 361$; female, $\$ 230$. These salarics show a small increase on thuse of the previous year. The number of School Sections in lS75 was 4,912 , an increase of 51 . The number of schools kept open was 4,534, in 4,014 of which the excreises were opened and closed with prayer. The receipts for High Schools amounted to $\$ 345,018$, and the expenditure was $\$ 332,013$. The number of pupils was $S, 342$, and of schools 10S. Of the pupils at the High Schools, 100, during lS7.j, matriculated in some University; $4 \overline{5} 4$ entered mercantile life; 97S went to farming ; 326 joined the learnel professions; and $\overline{5} S 6$ went to other occupations.

## Association Mectings.

Will Inspectors or Secretaries of issociations please inforir. usin good time of the date of the next mectingof theirrespective associations, so that we may give the same anotice under this head.
Nave. PLACE. DATE.
N. Wellington. Elora, Ont. . .........April 7.

Eigin..........St. Thomas, Ont....April 27 \& $2 s$.
South Essex. .... Leamington, Ont. .....May-
Perth.......... Stratford, Ont. . . . . . May $\mathbf{D}_{5} \& 26$.
Brant........... Brantford, Ont........Junc -...
Eastern......... Brockville, Ont..... .. Aug. S.
Prorincial. . . . Toronto, Ont....... . . Aug. 14.
National. . . . . Lonisville, Ky. . . . . ... Iug. 14.
Quebec..........Sherbrooke, Que. . . . . October

## English Department.

J. G. Ilasps, Euttur, it ciaitmriuit St., Lusdos.

Sulseribers are cominally innited to ca.opernte with the Biditur in makiag thes Lerpartinent as intevestumgan pessethe by frcely dioctusing the poinds raised by enyriring curri's pontients.
Questions are invited bearing on the subjeets ef Grammar.
English Luterature, Alymoleyy, Lc.; Lut they mint be if auch a odiaracter as to be interesting to subacribris generall!.
Matter for this spartm ant muse be addreercd of the Lititur as abore not later than the 15th of the month preciots to that in relich it in expected to appenr.
Ansuers to juerice, de , reili be inverted of the cutronl number follozing that in thhich they appear.

## Queries.

Parse the italicized words in the following :
(a) This book is mine.
(b) 1 sift the snow on the mountains below Till their great pines grom aghust.
-Suellfy.
(c) I live as I did, I think as I did, I love jou as I did.
-Sw!ft.
(d) The bell strikes one. -lous(i.
(e) The more you talk, the worse you make it.
(f) It continued for more than a week.
(g) They were armed with various weapons, such as gums, spears, \&c.

## Mathematical Department.

## Samelel R. Bhows, Fditor, boy 67 D, Lonvon.

Teachers and others are invited to fortard any problems they may think roorthy of a place in thexe columus, provided alleays that the sulutions accomprany, the probleme.
Semd Solitions before 15 th inst., to reccite attention, and address the Eiditor as abore.
When sending solntions, correspontents trill vtectee send cach month' prohlem. scparatcly.
The names of those whe solce the screral problems enrrcetly; rill be publinhed reith the solutions therenf.
The solutions of all problens pultished in this department zeill be printed in the second number following that in thich the problems appear.

## Problems.

No. 55.-
In an endless screw, the length of the handle is 30 inches, the wheel has 70 cogs, and the axle to which the weight is attached has a radius of $2 \frac{1}{2}$ inches. What weight will be sustained by a power of 200 pounds?

No. 56. -Suggested by G. W. Priest, Ayr.
Reckoning commercial discount at $S \%$, how long would a bill have to run so that the holder would he willing to pay something to get it off his hands? Show that the error in computing commercial discount, instead of true discount, varies nearly as the square of the time, when the time is small and the discount is small, compared with the debt.

Nie. 57.-


No. $\mathbf{5}$. - I'roposed by James E. Frith, Nurwich.
A merchant sells tea at a profit of $20 \%$ but, When he had sold 20 lbs , ho discovered thint his ; sales had caused him n loss of $\ddagger \mathrm{oz}$ per Ib, sold; ho then correuted, as ho suppused, the orror, and sold 20 lls ., and fuund that he had gained 1 ll . on the second sale. On the whole trausaction ho gancel $13!\mathrm{cts}$. above the $20 ;$ Find (1st) his cost prico, (2-י.l) his selling price, and (3rd) his total gain $\therefore=$ By Avilhmetic.
No. 59.-Proposed by Allan F. Pringle, North Dumfries.
A merchant bought a quantity of vinegar which was invoiced at 20 cents jer galion. Fiml the rate at which he must sell it so that he may clear just $12.5 \%$ on the net cost-allowing $5 \%$ of the yuantity is lost by leakage, and that he loses $10 \%$ of the i sales by bad debts. The charges for freight and commission amounted to $5 \%$ of the sellung price.

No. 60.-Proposed by Thomas Worlen, Cromarty.


No. 61.-l?roposed by A. McIntosh, Pinkerton. (Taken from Advanced Arithnctic, page 266.)
A semicircular plot of grounc, whose radius is 12 yards, has inside the circumference a path two yards; the rest of the space is a flower bed. Find the size of the bed.

## Solutions.

No. 42-
If $A$ and $B$ together can do the work in 16 days, they can do ${ }^{2}$. in 1 day, and in 4 days they do is or $t$ of the work; ${ }^{7}$ of the work is left undone when $A$ is called off. $B$ finishes this in 36 days. Now if $B$ does 3 of the work in 36 days, he can do $\pm$ of the work in 3 of 36 days, or 12 days; and if he can do of the work in 12 days, he would do $\stackrel{5}{5}$, or the whole of the work, in 4 times 12 days, or AS days. A and $B$ together do ic in 1 day, $B$ by himself docs $x^{2}$ in one day, then ${ }^{\frac{1}{2}}-3^{2}$ or $z^{2}$ or ar = the nart of the work A can do in 1 day. If A does to in 1 day, he would do At, or the whole of the work, in 24 times 1 day; or 24 days.

## No. 43.-

Nultiply the numerator and denominator of the fraction by the numerator, and the equation becomes-
$\frac{(\sqrt{\bar{c}}-\sqrt{c-x})}{x}=c$
$\operatorname{Or}(\mathrm{V} \vec{c}-\sqrt{c-x})=c x$
Extracting the square root-
$V \vec{c}-\sqrt{c-x}-V \vec{c} x$
By transposing, $V_{c}^{\vec{c}}-V_{c x}=V \overrightarrow{c-r}:$
By squaring ( $f$ ) $=-2 c \overrightarrow{V_{x}}+c x=c-x$


$\operatorname{Or}(c+1) V \vec{r}-2 c$
Whence $V=\frac{2 c}{c+1}$
By squaring（9），$\because \begin{gathered}4 c^{2} \\ (c+1)=\end{gathered}$
No．44．－．．
Through I）draw D l：parallel to A $O$ ；then in the triangle 131 ） 5 we have 3 1）S0，1）if ！ 0 ，and 13 E： 40 rods．We tind the area of the thiangle B D F（having the three sides given）to be 1509.5046 rods．But the area of a thangle－the base $x$ one haif the perpenheular height．There－ fore the perpendicular height of the triangle BDE $\rightarrow$ 1599． $0014 \div \div$ ，or $7!990: 3$ ；thus is also the perpendicular breadth of the parallelogram ACDI：． Multiply this perpendicular breadth by the length and we have $79.99023 \times 100$ ．e 7990.023 rods，the area of the parallelogiam $\triangle$ CD E ；then 7999． 023 $+1.599 .8046=9598.5276=$ the area of the whole figure，A 13 C D，
And $\frac{0598.8276}{160} \times \$ 40=\$ 2309.70$ ，the sum he receives for the field．

The anyle $C D B$ is an acute aylc．
Yo．4ü．－By John Anderson，Dixie．


$\operatorname{Sin} . A=$| $a$ |
| :---: |
| $c$ | $\sin .13-\frac{b}{c} . \therefore c \cdot \frac{b}{\sin . \bar{P}}$ $=. \frac{40}{5} \frac{0}{5}=74$ yds．I But $\sin . A=\frac{a}{c} \quad \therefore a=$ $c \times \sin . A=748 \times .809 \mathrm{~m} 605$ yils．，then 605 ： 748 ：： 20 mls ．to 243 mls ．nearly．

No．16．－By G．W．Priest，Ayr．
Let l or unity－cost of coffee per llo．，
$z^{2}=$ what he wishes to gain per lb．，
：$\left.\times \frac{3}{5}-\frac{1 \dot{f}\}}{}\right\}$ ，what he received for $\hat{j}$ ll ．，

接－what he received per lb．
等 $-\frac{1}{3}-$ gain per lb．
解解 the cost per lb．

No．47．－By A．S．MeGregor，Avonbank．
$1 / 2$ of $120=60$ ；and $60^{2}=3600$ ．
$3600 \div 1$（verse sine）$=3600$.
$3600 \div 1=3601$ fect，the diameter of the circle．
The diameter $=\frac{\left(\frac{1}{2} \text { chord }\right)^{2}}{\text { verse sine．}} \div$ verse sine．
No．4S．－By H．T．Scudamore，Wardsville．
Let $m_{5}$ and $m_{2}$ be the reapective masses，and $v_{1}$ and $v_{2}$ the respective velocities at time of impact． Then $m_{1} v_{1}$ and $v_{2} m_{2}$ are their respective momen tum．

Their combined momentum after impact $=m_{1} v_{r}$ －m．$n_{2}$ ．
（7）Jheir velocity after impact $\left(m_{1} v_{1}-m_{2} v_{2}\right) \div$ $\left\{\left(m_{1}+m_{2}\right) \cdots 1 / 2\left(v_{1}-v_{2}\right)\right.$ ，since the masses are cqual （S）and it is upward and ecpual to $c_{y}$ ．

the second，nud this is imleupendent times that of the second，and this is imlopendent of the initial $i$ velocity，or of the time．Since initial velocity－ $r_{2}=v_{1}$ ，we have initial velocity $: r_{1}: r_{2}=4: 3: 1$ ．

No．49．．．－
（a．）The diameter of valve is 4 inches；.$\therefore$ its area in $\left(\frac{t}{7}\right)^{2} \times 3.1416$ ． $12.56 i t+$ square inches； the leverage of valve is $\overline{5}$ to $1 ; \therefore \overline{0} 0$ llos．at the end of lever -250 ，on tho valve，that is， 950 llis ． is the pressure on tho value from without，and $2.00 \div 12.06 i 64=19.59$ lbs．，the pressure on each square inch from within to balance．Hence any power of steam over $19 . S 9$ lbs．to the spuare inch， will raise the valve．
（b．）Since cacla stay bolt is equal to a pressmre of 3607 lbs, and the boiler carries 10 lbs．per sfuare inch，there must be a bolt to every and or 60.116 scuare inches．Then V60．116 or 7.7534 inches is the distance between each stay bolt，from centre to centre ；or $7.7534-5$ or－． $87.7=$ 6.8754 ，the distance $:+$ ween each stay bolt from educs．

The following methods of solving No．37，by arithmetic，will no loubt be interesting to our： readers：
First Method．－A can do ${ }^{2}$ s，$B x^{2}$ and $C 3_{3}^{3}$ of the work in one day．If the work is to ledone in ${ }^{-3}$ days，there will lie an average of $x^{\prime}=$ done per day．

The L．C．M．of $15,30,33$ and 95 is 4950 ．
Now let us divide the work into 4950 equal parts，then there will be an average of 198 parts done per day．
A does $27 \overline{5}-195$ ，or 77 parts above the ar．per day


Should the No．of days of $A$ and 33 ，without $C$ ， be in the ratio of $33: 77$ ，or $3: 7$ ，or $6: 14$ ，or $0: 21$ ，or $12: 25$ ，or $15: 35$ ，sc．，there wonld be an average of n＇c per day，as A makes up for B＇s failure．

Again，should the No．of days of $A$ and $C$ ， Without $B$ ，be in the ratio of $48: 77$ ，there would l be an average of ${ }^{2}$ cher day．

Now take the No．of days A and $B$ must work 1 to give tho average，with the No．of days A and （C must work，and we will have the No．of days the three must work，to give the average．
If we take $A$ and $B, 3$ and 7 with $A$ and $C, 48$ ，and 77 respectwely，the No．of clays will likely be －fractional．Let us take such ratios as will not give a fractional No．of days．
1 A and B 15 and 35 ，and $A$ and $C 48$ and 77.
 Then 175 days ： 05 days ：： 63 days to 9 days A＇s time

| 175 | ： 25 | ： 3 3 | ： | ＂ | 1 | ＇s |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 175） | ： $0 \mathbf{0}$ | ：： 77 | 11 | ، | C | s |  |

## Second Method．－




A, B, C, work 25 days; A can do the work in 18, 1 in 30 , 1 ; in 33 days; or dividing the work into 990 990th parts, A does daily $0.7, \mathrm{~B} 33, \mathrm{C} 30$. What integers will multiply these three numhers to produce 990, so that the sum of the multipliers shall be 2.5?
30 divides 99033 times ; so if $0,0,33$ could be taken as the days of $A, B, C$, wo would have the whole work done; and if we combine multiples of 55 and 33 , so as to havo a multiple of 30 , we shall obtain a distribution of the days different from $0,0,33$.
'Ithe multiple of 55 must be a multiple of 3 because 30 and 33 are 80 . Similarly the multiple of 33 must be a multiple of $\overline{5}$. 'therefore both are multiples of 160 , and their sum must be divisible by 30 and therefore by 2 ; therefore both multiples must he odd, or hoth even. It will therefore sumfice to combine a multiple of 165 parts, each 16.5 being result of 3 days, with a multiple of 165 parts, ench 10.5 being result of $\bar{a}$ days, the remamier will be a multiple of 330 , and minst be $3: 30$ or G(i0, which, divided by 30 , will be 11 , or 22 for ("s days of work.

Now either ("s days are 11 ant the remaining parts $f \times 165$ must le divided in the ratio of 3 to j, or $O$ to 2 , which numbers zoultiplied by 3 and $\overline{5}$, (the No. of diays in which $A$ and $B$ do loí parts,) must produce 2 numbers whose sum is $25-11=-$ 14; 3 and 1 are these mmbers, the products being 9 and $i$ for the days of $A$ and $B$; and we have 11 for C -or ('s days are $\mathbf{2 2}$; 22 will not suit, for there would be 330 parts left for $A$ and $B$, or 105 each, and multiplying 1 and 1 hy 3 and io we should have A's days 3 , B'e days $\overline{0}$, C's days 12 -the sum of which is not $\because=\pi$. Therefore the only amomet is A 9, 135 , and C 11 days.

Correct solutions have been reccived as follows :
No. 41, Allan F. Pringle, N. Dumfries.
No. 37, 41, Thomas S. Menary, Egnondville; John McKenzic, Lome.

No. 36, 37, 41, Theophilus Hall, Markdale.
No. 36, 37, 3S, 39, 40, 41, F. W. M., Pt. Dover.
The above were received too late to appear in March No.

No. 42, Jolm McBean, Jennie Moffatt, Rebecea McKenzic, Lizzic Keachie and John Milroy, all of S. S. No. 21, N. Dumfries; Aaron Break, Riverside; No Name, Sunbury; Wm. H. West, Sarah Lena Macanshand, Emily Alice Christie, Thos. Harrop, Fdward Harrop, all of Walpole; Geo. A. Clark, Wn. Shrimpton, Trout Lake; Wm. A. Kyle, Morrisburg; F. Higle: , Rodncy; Stephen Slough, Fraderick Woor, Ensign Miller, Aulrew Miller, Effic Miller, T. 1). M. Metler, all of Fenwick.

No. 42, 46 , James Thompson, Cranbronk; Simeon Hicks, Courtland; John Morris, Warwick; Allan F. Pringle, N. Dumfries: Robert O. Huffman, Riverside; W. H. (irant, Waterloo, Esquesing; Emma C. Urmy, Selkirk.

No. 42, 46, 47, Thomas Hammond, Henry W. Hoover, Selkirk.

No. 42, 43, 44, 46, Alex. Dickic, Toronto; A. S. McG̛regor, Avonbank.

No. 42, 44, 46, 47, Thomas McCarthy, Downeyville.

No. $42,43,44,46,47$, Thomas Worden, Cromarty.

No. 42, 44, 46, 49, W. Bickell, Clyde.
No. 42, 43, 44, 46, 47, T. Cameron, Arkona.
No. 42, 43, 44, 46, 47, 49, James W. Morgan, St. Helens.

No. 42, 44, 46, 47, 4S, 40, Alley" Husband, Metcalfe.
No. 42, 43, 44, 4., 46, 47, Joseph Richardson, Imerkip.
No. $42,43,44,46,47,49$, Win. Mnir Fergus.
No. 49, 4:3, 44, 46, 48, 4!, James E. Frith, Nor. wich.
No. 42, 1:3, 44, 4.7, 46, 47, 49. John Anderson, Dixic.

ㄱ. 42, 43, 44, 46, 47, 4S, 4!, 1:, 11. 1'riest, Ayr.
No. 42, +3, 4.4, 45, 4ti, 47, 45, I. (i. Kimmerly, Napance.

No. 42, 43, 44, 4i, 4(i, 47, 4S, 49, F. W. M., 1't. Vover ; f. W. Plice, Augusta.

## Answers to Correspondents.

Edward W. Brace, Bluciale.-Yiour first and second yueries are explained in Treat Books; your third will appear in our nexi No.
A. E. Byens, Cadmus:- Problem No. 15, in Compasion asd Trimurn, is similar to the one you propose.
Ioln W. Ilace, Augusta: Cour problem is a good one, and will appear in our next خo. Your suggestion will also be mentioned.
A. MeIntosh, linkerton:-We thought better to place your question in our columens than to answer it by note; all our readers will notice it.
A. 1:. Kemnedy, Princeton:-Your query will receive attention as soon as possible; we have many other fine problems waiting their time.
A. F. l'ringle, N. Dumfries, S. S. 21 :-Wo did not receive the Algebraic solution you sent; glad to sce you take such an interest in the Companion AND TPACHER.

We would reçuest our readers to be careful to send all matter for the Mathematical Department to the address at the head of the Mathematical column.

## Selected.

## Intemperance and Education.

The success of any govermment depends to a great extent upon the people; unless they are intelligent the country camot jrosper. It is the character of the people that gives the greatest guarantee for the stability of our institutions. No matter how much the matter has been investigated this trath boldly meets us crerywhere. In Canada a generous provision has been made for the general education of the people-and our system of free schools is equal to that of any other country; and yet with all our facilities, and the stringent laws passed to enforce education, how many are there in the land who can neither read mor write? Our schools are multiplying yearly-new buililings are erected, more teach. ers employed, heavier taxes imposed upon the people, greater efforts in the direction of cducation are put forth, and yet there is still a demand for jails and penitentiaries, and the inmates of these institutions are annually increasing. And what is the cause of this? We have not the slightest hesitation in saying, that it is the facilities for oltaining liquor which is at the foundation of the ignorance, as it is of the crime and poverty which exist.
All through the country there are two opposite systems of education going on-antagonistic to each other no doubt-but both established by law, fostered and encouraged hy the people-and both costing immense sums of inoney to support them. :

The first of these is the public schools, the em. bodment of oniughtened ideas, producng eitazeng of supei tor character, promotung the welfare of all, building up and consolidating the power of the Stato.

The other system ss the produce of the breweries and distillories; the off-shoot of the whiskey-shops; that are now under the protection of our Christian Rulers, and licensed by them to clucate the rising hope of the country mito drunkards, to spread over the land a flood of degradatrou and death, destroying the mfluence of the former system, and of the Churches, and plungug many of our people into a chronic stato of poverty and crime.

The mullucne of our schools anil colleges, esen the warnings from the churelies, will have no elfect so long as these schools of vice are allowed on every hamd. We muy build a school-house on every hill, pay tho best teachers to take charge of them, and fail to have honest, sober and mutelligeat. prople, so long as the other-the debasing system of whiskey education-is pernitted to exist, and the dramshops to stiml side by side with our churches, our colleges, and our schools-Weelis Doinys.

## The Young Should be Taught to Think

We have often suggested in our columus the importance of teachers drilling tho young people undor their charge to think. The greaicst ditticulty which the teacher has to contend with in not is accustoming the pupil to repent the rules in grammar, arithnetic, and other studies, but to induce him to re. flect on the reason why the rules are laid down, and why following the rule produces a correct resultin other worls, to teach the pupil to think. A correspoudent, Mr. IR. K. Slosson, reflects in the Western Rural our thoughts on this subject in a somewhat lengthy article, from which we make the following extracts:-
The world is indebted for nine-tenths of its valuable knowledge, its improvements and progress generally, to men and woinen who have trained themselves to think in a systematic and consecutive manner. No man has ever become eminent in science, art, literature, or farming, who was not a profound thinker-who dia not well examine and compare all the items pertaining to the subjectto know whether, in their various relations, they sustain the principle which public opinion uphodds as being truc. It is not a very uncommon thing that a principle las been enunciated by men who have pot theories to support, and where it is plain to a thinking, unbiassel mind, that some of the important items of the theory are in drect antagonism to the principle, and therefore false; or otherwise, the principle itself has no foundation in truch.
The earlier, consistent with health, that youth learn to think, the ploro massive and powerful will be the brain in maturity-the letter picpared will be the minil to shed a glow of miterest aml happiness on all around, and fill itself. with sia intense sense of enjoyment uuknown to the whisciplined nind. This process of thinkingshould be systema. tized, so that the mind can bend its energies in full force on one point at a time, and after haring c.amincl in this manner the whole ground, the facts elicited can be classified, managed, and put in a position tu be easily understood aud be appreciatel, because they are forcilly and logically brought to bear. If you once acyuire the ability to conceutrate the mind, so as not to be diverted frum the
main yuestion or olject in viert, you have made a long stride in the right direction, and the vigorous use of indiviluality, comparison, and casuality will be pretty certain to eualle you to reach satisfaotory and demonstrativo ones.
To assist yourselves very materially you need specially to cultivate memury ; and we believe this can best bo done by the association of things and ille:s. If you wish to retain an idea, you have only to specify in yur minal a faniliar idea, analogons in sume particular to the one you "ish to rememher; su all you havo to du is to recall the familiar idea and tho new onc immediately pops into your mind. A little practice in this way will convince you of its utilits, amb rementior the longer you practice a thutuugh analysis of the subjects submitted to investigation, themorespecty, perfectandsatisfactory will le yuur work. We belicys, therefore, that all high schuwls should have a professur whose business shall lee to teach pupils to think, and ceen our common school law should require elementary instruction in the scheme of thinking.-Exchange.

## Is Juvenile Journalisin Judicious:

Journalism by school-children is one of the signs of the times, and is, we believe, one only to be ritnessed in North America. As thase who scan the Reporter have had ample means of ascertaining, the number of primary schools having journels conducted by the pupils is very considerable; and the question naturally suggests itself, "What are the ends this noval phase of tuiton is designed to accomplish?" Will it convey to them new and valuable knowledge? Will it incite ther to more industrious study? Will it impart experienoo which shall better fit them as men and women to cope with the temptations and difficulties of life.

It is beyond controversy that all echolastic training shonld have for its aim the fitting of those coming under its influence to acquit themselves honorably and usefully; and any possessing a tendency different from this is, as it ought to be, serupulously climinated from systems enjoying the advantages of cazeful supervision.

Of course if juvenile journalism inclines in this direction, it deserves all encouragement, and should be as soon as possible introduced into our public schools; whilst if useless or deleterious it merits banishment from all academies.
It is well within the province of the Reporter. and its readers to ponder on which side the balance lies.
The object of this school journalism ostensibly is to encourage the study of Euglish composition, to attain excellence in which pupils will, it 18 held, strive far more when couscious that their efforts are to be printed, canvassed, and criticized than when they labor under the idea that, whether good or bad, their work will be unknown outside of their class. An impulse to essay writing will be given ly this species of exercise, it is held, the result being greater mental activity applied to other branches, and higher results everywhere. Such are, in bricf, thie chicf amoing the reasons which are or can be offered in adrocacy of the practiss.
Whether the designs are accomplished is a question to which the common-sense vien suggests a negative answer.
There is perhaps no more formidable barrier to intellectual adyarcement than yanity-the assumption, of course, being that nature has not . been remiss in her work. A ligh opinion of one's
yualiticntions umerits is fatal to improvement of them. The youth who learns to belies that he is remarkably clever or a pink of propricty nes or becomes either, Hilus he should hawe the goon fortune to encounter enough of the purging which comus of persecution and rebuff to utterly upruat his self-esteem and present himself to himself in his true character. Having eliscosered how, $\mathrm{p}_{\mathrm{m}} \mathrm{m}$ are his attainments where he most prided himself he excelltil, thare is some hope for him. Shame alone may furce him on to a manly endentor to supply his short-coming's. But where one is so blessen, a humiren $\mathrm{f}^{(0)}$ on through life 1 rappeal in their strong faith in themselses. Sush are the men who, "hilst youns, iuflict all the harm upon socicty which is traceable to licentiousness; who later make bad members of the innily and dis. honorahle knases in businzss, ami who, when at length they verge tuwaris the orave poor and wretehcel, are sconted, and aro despised even ly thenselves.

Tanity is a dreal evil; and because it is we have no faith in jourualism in the schools. Say what uplolders of at may, the practice will develop the vice. Gatside of the schonl the work appearing in the papers will be brought under notice, and parents and friends with more love than discretion will commend it in presenco of the dear little pets who are the evolvers, amb will make them believe that deeds which are of no unusual worth are suls. lime and something to he very prond of. Saturally les cufants will get guite stuck up; and when they do, be sure they will "stick." Lufuse into them the ilea that they are guite Shakesperes or Bacons; they will not require the information that they have attained the pinnacle of greatness. This they will deduce for themsclies.

Awother reason why we are disinclined from this journalism by scholars is that we believe it is only a dodge of mercenary school principals to bring themselves and their establishnents under notice. It is a now advertising scheme merely, which par. ents may not with impunity allow their children to aid on.

In the national character there is already far more of the love of ostentation that is reconcileable with republican ideas or with virile thought. Instead of being encouraged to helieve that "splurge" is proper and to be cultivated, children should be taught to contemn it as unworthy of American citizens and to hold that sound morit is alone worth being striven aftor.

When this style of ethics shall be generally inculcated, school journalism will cease, and the death blow will be struck at twenty-five cent diamond pins; gold Alberts and rings expressly imported to accommodato six-dollars-a-week lightheaded heavy swells; and ten-cent cigars on an anmual salary of $\$ 150$; and there will be hope that even gold-plated harness, liveried fontmer, and other un-American extravagances may be banished from our midst.-American Nenepaper lirporter.

## Industrial Education.

There is no more important problem before this country to day than this of industrial education, and, sooner or later, the comntry will have to solve it.

Edacation we have in abundance; we have colleges for teaching astrunomy, the dead languages, higher mathematics, anil philosophy, capable of holding three times as many students as are ready
to enter them. Wu have magaincent publie schools in which Fsench aud Iatin and dawing aro taupht ter the sons and ilanghtery of the poorest withut moncy anil "ithout price; but we lane no schools where any industrial oceupation is tanght -no school wh... girls can acyinire neatnes and skill in whe uselo. arts, of makins cluthius and manipulating foud, and loy o, deaterity in the uso of teols.

We charge it upon elluated jidy that the $x$ ill not pursue legitinate business callings; but how can they? there is numeans los. "hich they ean acy nire hawnedige of them. We blame our mintanulit suanstre3ses, ilvess-makers, amil cooks: lut hun are they to learn exe pet lig pratice upun the untrary hansckecper ! An intelligent girl who wishes to :decume an expert - who is too cunscientwons to call hursclf lyy a prifessional titlu until she has earned lier right to it-is drica lack upon the biave fact, the uter absence of all means by which she can aecuire the refuisite knowledge and practice.

In France young women pay a hieh promiums for admission into the best dress-making houses; lut then they are put throuch a regular and systematic conrse of trasining; and they come out with certain prmeiples well established in their minds, which are of use to them all their lives, as well as a knowledge of practical details, which are turncd to immediato account.

In che large cities the trouble especially is becominy a serious one. Almost every woman is a begarar, or willing to hecome one, if she can find ans one to give her anything; but if work needs to he done, it is one of the most dificult things in the world to get it well lone, or to get it done at all.

It is a cuestion whether, in our self-latalation, self-respect is not entirely clying out from among us. Certainly that self-respect which is based upon character, upon truth, and honesty in work and life, has fow representatives.

Think of the wifo of a man like ('ornelius Vanderbilt having it to say when she died, only seven yenrs ago, that she had never spent a dollar she had not carned! That was one of the reasons why he died worth a hundred millions more or less. We talk about "higher" education. but the higher is of little use unless it ineludes the lower, for it has no basis upon which to stand; and if the childern ci poor parents have not time for everything, let us give them, through our pullic schools, in addition to the old-fashioned reading, writing, and ciphering, not a weak smattering of Latin, French, and acometry, but a thorough knowleige of some useful and imdustrial art, by which they can carn their bread, and add to the comfort and happincss of the community. - Demorest's Monthly.

## Focal Music in Public Schools.

The mportance of vocal music as a Lranch of cilucation has been uuite generally acknow' eilged by ellucators, and without going into extended argument in its favor, we shall only present a statemeni of some of the more important reasons why it should be taught in Public Schools.-

1. The influence which music $h$.s always cacred wer the sunl of man, and its consequent almost I universal use, gives it a prominence as a branch of clucation, which demanils more general attention.
2. If the knowicdge of it cuer becomes genceal, its stuly enust be cummenced in childhoud, before the organs of heaning and vocalization liecume so
fixed that masicial sounds can neither be produced nor appreciated.
3. In a sanitary view, singing is c se of the best promoters of health.
4. Its good mfluence upon the morals and deportment of the young is incalculable.
5. The mental diserpline repuired in learning the science gives it as ligh a position as any othe: study.
6. Mnsicas a means of rocol cullure is megualied, and greatly aicis in making good readers and speakers.
7. In the light of economy, the enst for tuition to the parent, in the way of private instrnction, would be greatly lessened by having music taught in the public schools; while those who, from poverty, would otherwise never receive any musical training, woukd be greatly benelited.
If, then, it is desirable to have music more gencrally taught, as a science, in our schools, it whibe necessary to consider the question

## Who shath Thach ir:

In citics and towns where special teachers are employed, but little difficulty will be found in arranging the mode of instruction ; but in the vast majority of schools, no special teachers are enployed, and consequently it remains for the regular teachers to porform all the work that may be done in this department. In this comnection, the guestion will naturally arise in the miads of many, how is it possible for the ordinary school teachers to impart musical instruction, since so many how nothing of the science, being unable to sing? Perhaps the best answer is the simple statement that all such as have earnestly and perseveringly attempted the work have succeeded, and succecded well. Tcachers are accustomed to habits of study and investigation; and if they wall make use of any of the valuabie text-books that have licen pre. pared for their spe cinl lenefit, they need not tind any difficulty in learning the principles of musical science, so as to be able to teach the same to their papils. If a teacher is unable to sing, umioubtedly there may be found some pupils in the school, or a friend, who can and will gladly assist matil the entire school can sing the scale correctly. When this has been accomplished, the teacher's work will consist in giving instructions in the clements, and seeing that proper practice is given by the school in excrcises and songs. In counection with this, we copy the following from the report of the Music Commintec of the Boston Public Sichools:-"An aptness to teach only is necessary, and any person who is fitted in other respects to hold the responsible position as a teacher in a public school has the ability, we contend, to learn in a very short time how to teach the elements of music, as well as the other studies required in our common schools. Nor is it necessary that the teacher should be able to sing, in order to loe snccessful in this lranch of study, though, of course, it is an sid." Hundreds of instances might be cited to show the success of teachers, who, at one time, thought it impossible for them to do anything in the natter, but who have since earnestly taken; hold of it; but it is cortainly umecessary, as we hold that every faithfal teacher, who seeks tol render to those whose education is intrusted to him the greatest amount of good, will make the, experiment, and ascertain for himself whether or not we are correct.-Eilucational Wcekily.

## A Wise Teacher-A IRoy Saved.

A boy fiften years old had been Hoged and harshly treated at home and at school until he had lost his self-respect, and became utterly reckless of his chamacter. So bad, indeed, was he, that the trastees in his mative distriet had cansed his expulsion from the public school. His father, almost in despair, requested a teacher in the neighboring district, who was known for his preat success in managing the worst of hoys, to try his som. On entering the school the teacher lent him an interesting book, telling him lie might read it the first day, ami not commence to study until he had become accuainted with the place. That night he told the boy he thought him capal le of becomingoae of the bist scholars in the school, and that if he would try to excel, he should have every opportunity afiorded him, which wond enable him to disappoint the expectations of everybody. The poor outcast openced his uyes with astonishment, amazed that any one should speali kindly to and be interested in him. For severnl weeles he iseemed to forget his wayward habits, amd devoted his mind to study with remarkable success, to the surprise of all who knew his history: One day he became very angry becanse the teacher would not aid him, at the moment, in solving a problen. He laid down his books and sat mursing his wrath, and When the teacher found leisure and offered to aid him, he tartly replied, "I do not wish il." When the school was closed the boy was requested to remain, doubtless expecting a tlogging, as in former tinies; but what was his astomislment when the teacher sat dorn by his side, and said, "Thomas, I thought you were willing, and meant to be 2 good boy, and I have given you a good name among all your acquaintances, which seemed to give them great joy. Must I now go and tell them that all my hopes for you are crushed, and that ail my hindness toward, and efforts to help you, are lost?" Thomas wept under this appeal, for he expected the whip or expnlsion from school; and from that hour his reformation was confirmed. After he had fo:md that one, at least, "cared for his soul," he became an excellent scholar, and was known for exemplary cond:ct, and a more worthy man than he is now cannot be found in that neighborhood. He dates the turning point of his life and character to that hour with the teacher at the close of the school on that eventful day.

Now, suppose the teacher had allowed his anger to be provoticd by the boy's sullen insolence, and he had scolded and whipped him, as others had done, instead of arousing the boy's bencrolence and fricndship, and awakening his self-respect and regard for the opinion of wthers, he would have gone from school but an outcast and an Ishmael. Phrenological Journal.

## Puzaling Poctry,

Wife, make me some dumplings of dough They're better than meat for my cough; yray let them be boilei till hot through, luat not till they're havy or tough.

Now, I must be off to the ploigh:, And the boye, when they'vg liad cnough, Must keep the flies off with a bough While the black mare drinks at the trough.

# Scientific and Literary. 

## 1Slue Glass Minnia.

[Below we give two selections on the sulject of "Blue Cilass," about which so mueld discus: ion has recently taken place. These will serve to dive our readers as thorough an understanding of the subject, as it is possible to give them at present.- Ens.]
No better confirmation of the assertion of a cynic, that peop'e "Iove to bo hambugge, " has been recentl, afiorled than m the blue-class delusion, whic. has in sone seetions: acupired aluost the chanater of an cpidemic. Whether there is a popular fondness for being deceired ornot, thercis cortainly a manifest tendancy to receive with readiness amost any movelty in tho shape of a remedy for disease if it is only heraided with a suflicient anount of assurance and is backed by a fen reputed "cures."

1 asing their confidenec upon sush grounds as these, humireds of people hase recently been led to mako a trial $0^{\circ}$ the blue-light methool of creat-
 in the manaiature of blac or cuhalt gites. in some cities, sures of windows may be seca monemented wichafos phanes of "Gen. Pharam stin's blue glass.' Every day we pass a wimluw in Whath hange of ioticu containing alternate puates of bue and conorhess gl..ss, behind which sito , hitthe cripele sulferivo with diesese of the spine. His foud parents are vainly watehing for the magic intheuce of the bive hight to be manifested in restoring their little oue to health. No donbt handreds of others are pursaing a similar counse.

We have not space to give indetril all the claime which (ien. pleasington makes for the lhae tight, nor to show, as might readily be done, the absurdity of each one. A carcful examination of his experiments will sinow that they were not conductel in a scientific manner. There were large chances for cror in all oif them. When malyzed carefully it is fonad that they aro wholly ineompetent to cstallish the value which he attaches to bhe light as a remedy for disease.

Une grave objection to Gcm . Pleasanton's theory is that it does not harenomiec with science and the well-known laws of optics and electricity. He clains that the blue glass not only isolates, but increases, tho intensity of the actinic or chemical rays. Careful experiments conducted by eompetent observers have show, that the only difference between ulue light and colorless light is that the other rays are imperfectly filtered ont by the blue glass, the blue or violet mass being allowed to pass through. It has been proven, however, that the blue light contains much less of the actinic or chemical properties of light than color. less mays. The blue light, in effect, is only ordinary light diminished in intensity.
It.is not surprising that mumerons "cures" are reported as having resulted from the use of this new remedy. "Every now remedy can boast of as many "cures." Some of these, without doubt, are the effect of the magination, which has long leen recognized as a poweriul agent in the treatiacnt of the sich. It should aiso he borne in mind that in the use of the blue light the patient is also subjected to a sum bath, the great therayentic value of which has long been recognized. No doubt the, tu-ger share of the georl results claimed for blae light are really due to the colorless rays which are mingled with the bluc.

But it may be suysested that experience might prove the value of a remedy even thongh its effects could not be accounted for on scientific principles. We might yluestion the trath of this position withont injustice; fu: true seience and correctly interpretell experience always harmunize. Nevertheleses, a pazetical trial of the merits of the reniedy will le the criterion by which the geueral public will judge it.

Vor the purpuse of testing the value of the blue light when compated with colorless sight, we had one of our four sun-bath :ooms at the Health Institute aranaged for $t^{t}$ use of the blue hight accordmy to the most appoved fashion. After it t:ial of two mouths we are unable to see the least advantage which it possesses over the clear, matual sum-lisht just as it was made by the C'reator. It realy seems guite improbable that the Unaniscient shouh have made so great a blumder :is to have so clumsily mangled the constatuents of sumlight ihat it was necessary for fen. Pleasanton to merut a means to filter orit the delcterious rays. -ilioth hajoimer.

Pophlue masias io aut always have amethod in their madness: liat, nevertheless, they repay investigation, tor the mere chance of finding truth and aseinhess in we out of a hundred. Of the bhe glass man:a we can only give incts, leaving it to thnse who, are scientitically interested to inlestigate For themselves. Gencral Pleasamon, the acerelitur medium by which it has been introduced to the public, aml whose book on the sulject is, as yet, the best authority, is not the far-famel gencral of the revelion, but his brother-General Fugh.stus Pleasamton. He is a graduate of West luiat, a breveted brigadier-(ieneral of Yennsylvania militia, and a lavyer of prominence. Owning a farm just out of the city of Philadelphis, he, in 1860, began to experiment on the influence of the sun's rays as affecting vegetable and animal life. Experiments made in Europo had alrealy eridenced that blue rays of the sun had great chemical powers, and that their effect on vegetation, owing to greater heat, was more stimulating to growth. The fieneral arrangell a grapery covered with glass, every eighth coll of which was bluc, by wnich means every "nt and leaf partook ecpually of the azure rey. In April, 1861 , he set ont twenty varictics of erape vines, all cuttings oue year old, about the size of a pipe stem, close to the gromad. By septemiler he fomm the viues had grown fortytive fect in length, and were one inch in dimmeter a fiwat from the ground. The next $y$ ear the vines bore 1,200 pounds of delicious fruit. He next tried the effect of his theory on nnimal life. A litter of piss were placed in a pen lighted by bluc ani phan glass equally, and throve marvelonaly. a sickly anit dying bull calf, mader the effect of the bine raws, stool erect in twentyfour hours, wias taught to drisk milk, and in four months nas a perfectly developed ball. as sa instance of precocity, a heifer, under the blue yhass. leceame a mother at as candy as fourtern months, a most mammon circumstance. Finr peuralgic, rhcumatic, and nervous affections, it is snid to be a soycreign panacen.

The General, in lis book, says of it: "Sunlight passes through phain and transparent glass with slight obstruction, as through the atmosphere or ether of space As it produces no heat , the glass remains cold. When adjoining sunlight,
with same velucity ( 186,000 per seemal), falls on a that glass lane, six unt of seven of the pir. mary rays are arrested and only the blue ray passes. The sudden stopage of the sin, with enormons velocity, produces friction; friction evolses negatise electricity, which is electricity of sumlight, passiug throngh cold ether of space and in cold aranosphere; both of which, beins negatively clectrified, impurt electricity by finluction to rays of sunlight as they pass. Blue glass is oppuositely e'ectrafied. When thase opposite clectricities are brought together, and meet at surface ef glass, then conjunction crolves heat and maxnetism. The heat expauds the molecules of glass, and a current of clectro mas. netism passes into the room, imparting strength and vitality to any animal in it. When the atmosphere becoures electromagnified, the inhabitants derive benefit from it." Gencral Pleasanton's book is full of a scientitic discussion of his theory, and he boddy combats established theories, amd puts his own in their place. Me disbelieves entirely the Newtonian idea of gravitation, and holds clectricity to be the all-controling force of mature. l3y, and, through it, we live, the earth revolves and planets are held in their places. He denies the sum to be incandescent throwing of heated rays; and'also that there is heat in sumlight. Ife argacs, the earth, surrounded by an atmosiphere and cther, proved to be of temperature minus 142 degrees eentigrade, and says it would be inpossible for the rays of the sum to penctrate this colle envoopye for a distance of $92,000,000$ miles and preserve any hent. He holds that heat is evolved from the caith: We can only advise these interested to investigate the sub. ject themselves, in order to prove or disprove all these theories. The proportion of bluo glass on vegetable life should le one-cighth; for amimal, of eg gal forec. Already French, sewems are making investigations, and testing those discoveries already made-A'rw Iork Milliner and Dressmaler.

## Hamony of Science and Aclixion.

Now at cighty two and a half years of age, still, by God's forbearance and bicessins, possessing my mental powers unimpaired, and looking over the barrier beyond which a soon must pass, I can truly ideclare that, in the stady and eshibitaon of scicnce to my pupils and fellow-men, I have never forgotten to give all hourar and glory to the infinite Creatur-If 1 might lice the honarel interpreter of a portion of IIf works and of the leantiful structure and bencficent haws discovered by the labors of many illustrions predecessors lior this I claim no credit. It is the result to which right reason and somed philosophy, as well as religion, would maturally leal.
While 1 have never concealed my convictions on these suljects, nor hesitated to declare them on all proper occasions, I have also declared my helicf that, while natural religion stands on the basis of revelation, consisting, as it docs, of the facts and laws whicin form the domain of science, science has never revenled a system of mercy commensurate with the moral wants of man. In mature, in God's creation, we discover only laws - laws of undeviat. ing strictness, and sore penaties attached to their violation. There is associated, with natural laws no system of mercy. That disjensation is not revealed in mature, and is containel in the Scriptures alone. With the double view just presented, I
feel that scieneo and religion may walk hami-mhand. Thes form two distinct wilumes of revela. tion, aud buth being records of the will of the Creator, both may ine received as constituthag a unity, declariug the mind of ciod; and therefore, the study of both becomes a duty, and is periectly consistent with oun highast moral obligations.
I feel that, as the sulbject respects my fellow. men, I have done no more than my duty; and I retlect upon my course with subducd satisfaction, being persuaded that nothing which I have said or omittel to s.ay in my puhlic lectures, or before the college classes, or before popular audiences, can have favored the crroneous impression that science is hostile to religion.

My own consictions are so decidedly in the opposite direction, thant I could wish that students of theokgy should be also students of natural science -certainly of astronomy, geology, natural philosophy, and chemistry, and the outlines of natural history:-1'rot. Silliman.

## A Sun in Flames.

The rescarches of astronomers tend, it must be confessed, to shake our faith in the stability aud immobility of our solar system. There is, for instance, evidence suggestive of the probability that the sun is gradually parting with its energies in such a manner that our descendants will be less thoroughly wamed and lighted than we are ourselves. Again, we are told that should a comet fall into the sun there would be a tremendons outburst of solar heart, wherchy the carth and all the worlds which circle arounil the sum would be destrojed. The latest news, however, from the stav world conecras us muelh more nearly than these scientific speculations, for it tells us of a catastrophe which has liefallen a sima, which, like our own and handreds of millions of others, is, the centre of a scheme of circling worlds. Aecidents among suns, though mare, do sonetimes occur. A few among the suns appear suddemly to have lost a grent part of their hent and energy, as though the supply of fucl had suddemly run shart. This is bad chungh, but not so bad as would be an accident of the contrary lind-a sun suddenly blazing wat with mure than a humited times its usual sphendor ; such an aecident, howerer, has actually vecurred within the last two months. On Nov. 24, the director of the Athens Observatory discovered a star ait the constellation of the Swan, whereno such star shoulh bee. The news was at onec telegmphed to the priucipal observatories, and the new star was subjected to searching scrutiny. Its brightuess incrased until it assumed a markedly yellow color. Spectroscopic examination during the height of brilliancy reveal the pres'ence of bright lincs of hydrogen and magnesium in the spectrum of the star, evilence of the nost intense and glowing heat. This vivid lastre did not howerer, last inore than a few days, after which it mapidly dwindled down to greenish blue light. In phain words, this formerly gueseent sun, after bursting forth into an intense glow and blos: soming with flames oi hydrgen, has resumed its fecble lustre. Tin coimenitiing on the above case an cuinent Euglish astronomer remarked lately that all the elements of tho catistrophe which has lefallen the remote sun in the Swan exist in our own. In fact, there is nothing to assure us that our sun may not suldenly burst out with torrific splendor, so that a sudien expulsion will take.


#### Abstract

place, and the fires intended to warm our earth blaze forth to its destruction. If this did happen, the sum would probably cool down again to its present condition in a few days, but unfortunately no terrestrial ebservers would be alive to know whether he did or not, thongh the whole series of events might form subjects of intercsting specula. tion to the inhabitants of worlds circling round Sirius and Arcturus.- I'itness.


## Poetry.

## Peggy Macdonald.

Well, Peggy was pretty ; indeed, it was said That leggry possessed the most beautiful head That there was in tho land. Complerion so fair ! Such tender blue eyes ! Such radiant hair ! She livel in the conntiy. The bloom of the rose Was seen on her check. And even her nose l'ossessed the same tint: :but that was mo harm, For Pessy Macdonald was raised on a farm.
Rut Pesgy was pretty ; oul then, what was more, Her father hat riches in bountiful store.
His income was large and his debts very small, And Peggy, you see, was the heiress of all. A:d this is the reason that gallant young cyes Were looking on lecesy; though she was a prize, So swect and so charining, so Govely herseltOf far areater value thim all of her pelf.
Just north oi Mracionald's, and on the same road, Stoonl a neat little cottage, in which there abode A pleasant young fellow, Jim Crayton by name, Harl-working and honest. Now, Jim was the same
Who first went with Peggy ; in fact, her first beall, When both were but children, a great while ago. In those early days there was lindled a fire By the light of the eyes that could never exjpire
Yes, Jian trily liked ier deep down in his heart, But waited for sometining to give him a start
To tell her his passion ; lut always somehow
Uis throat would choke np and his speech woukn't tiow.
Thus he, always nursing his love in his breast, Darel not put his douiding forcicr at rest,
While Peggy, sweet creature, wias dying to hear The story Jim wanted to pour in her uar.
Just south of Macdonali's, and on the same road, Wias another mee dwelling, and in it abode Another young fellow, Tom Turner by name; Aud he, too, loved Peggy; lat she was to blame, For often, on sundays, when both were at chureh, And lom's cyes were wandering, so restless, in scarch
Of some one like Peggy, her lovely eyes burned With language that told him his love was returned.
But Toni was so timid and bashful withal,
Me never could talk to the mailens at all.
Iike Jim, lie liept waiting and living in hope
That some time and some how the ice wonld be broke.
But all of his waiting and hoping were vain,
For, waiting and hoping, he let it remain
As it always had been ine never cond fiad
A fitting occiasion to tell her his inind.
Now leugy liked both; 'twas too painful a test
To decide in her heart which she did like the beist;

For the neighbors said each was a very fino catch,
And Feggy was longing to make a good match.
But what could she do if they never came nigh, But did all their courting alone with the eyo: While silence is golden, sometimes, it is said,
Some brass is much better for those who would wed.

And so it went on ; and thus year after year
Each suitor was jealous, and slave to a fear
That the other had askel her to share in his lot;
Iet cach one was hoping the other had not.
When much time was wasted in donbting and fear, At last it was whispered in 'Thomas' ear
That leegy had promised his rival to wed:
The guests were invited, or so it was said.
The very samo story was told unto Jim-
Importaze exception, it was not to him,
But Thomas, his rival, the prize wias secure,
And this was too much for a man to endure.
One morning, soon after, the country around
Was thrown into fear and excitement profound;
Tne suitors their cowardice plainly had shown,
For both had departei ior regions unknown.

## Going Mome.

Where are yun going so fast, old man? Winere are jou going so fast?
Theecs a valley to cross and a river to ford,
There's a clasp of the haud and a parting word,
And a tremulous sigh for the past, old man;
The beantiful, vanished past.
The rond has been rugged and rough, old man; To your fect it's rugged and rough;
But you see a dear veing with gentlo eycs
Hass shared your labor aud sacrifice,
Ahy that has been sunshine enough, old man; For you and me, sunshine enough.

How long since you passed o'er the hill old inan;
Oi life? o'er the top of the hill.
Were there beantiful vales on the other side?
Were there tlowers and trees with their branches wide,
To shut of the heat of the sun, old man; The heat of the fervil sun:

And how did you cross the waves, old man? Of sorrow; the fearful waves?
Did you lay y on dear treasures by; one by one, With an aching locirt and "God will be done," Under the wayside dust, old man;
In the grave 'neath the wayside dust.
There is sorrow and labor for all, old man; Alas ! there is sorrow for all;
And you, preadrenture, haveliah your share,
, For cighty loug minters have whitened your hair,
And thes've rhitened your leart as well, old max;
Thank God, your heart as well.
Jou'ra now at the foot of the hill, old man; At last at the foot of the hill.
The sun has gone down in golken glow,
And tho hervenly city lies just below,
Go through the pearly gate, old manThe beautiful pearly gate.

## Address to the Skeleton in the Royal Academy.

## 

About forty yeas sinec, the following lines were found deposited in the case containing the sleeleton, at the Royal Acudemy, Lomelon, England. It is believed that fhey were witten and deposited there by one of the stuilents. We think they havenever heen published in America lefore.
"Behuhl this ruin : 'twas a shall,
Once of ctherend spinit full ;
This narmw cell was life's retreat, This space was theught's mysterious seat.
What beanteous pietures till'd this spot:
What dreams of pleasure lung forgot:
Nor love, nor jus, nur hoper, hor fer,
Has left une trate or recorid herc.
"Beneath this munhering canopy"
Once shone the iright and hiss cig.
But start notat the dismal void-
If social luve that eye employ'd,
If with no lanless tite it gleam'd,
But thre whe the dew of timiness beanich,
The eye shall be fur eler lright
When stars amd sums have lost their light.
"Mere, in this silent ewem, hung
The realy, swift, and tuncinl tonguc. If falschoont:s homey it disdaint, And, where it could not praise, was chainit. If bold in virtue's cause it spovie, Yet gentle concorl nerer brokeThat tumeful tongue shall spah for the When death unveilo cternity.
"Sis; did thest fingers delve the mine. Or with its envied rubies shine?
To hew the rock, or wear the fem, Cam nothing num avail to them?
But if the page of truth thics suaght. Or comfort to the mourner brought, These hames a rifher meed shall chain
'Lhan all that "ait on we.lith and fanu.
"Avails it whether bare or shod 'Ihese fol the path of duty trox : If from the bouers of jos thes iled, To soothe afliction's hunble bed; If grandenv's suilty bribe they spurn'd, And home to virtues lay returned These feet witi angel's wings shall vii, And tread the palace of the slig.:

## The Allurements of Mathematies.

"Cone where the constants for thee do wait,
Come to the variables, and do not be late,
Where the liadius of Curvature never is still, And the Osculatury Circle gocs round like a mill. Come! of come! Tum, ti tunn, tum :
Differentiate first, and then titice the sum."
"Come where the Ellipsoid gocs round, like a top,
And still is revolving, never to stop.
Where the song of the Hyperbola never is silent. And the howl of the Cycloid excessively violent. Come! oh, come! Fi, fo. fum!
With the Log of Napcrian base $=1 . "$
"Come where the body of an initial velocity Is forced on your notice, with great animosity, Whero the Asymptole is tangent, at an infinitedistauce,
And gravity is inverse, as the square of the dis. tance.

> Come : oh, come:
> Tum, ti tum, tum,

With a moving force, measuring, momentum."

## Fireside Department.

## Mrs. Gordon's Lot.

It not unfrequently happens that aen whe are doing a large business are quite ignurant of how they stand, and when death intervenes their families are left mprovided for. Such was the case with William (iordon. He was stricken dowa sudienly, and died in less than a week from the time of his attack. His family had scarcely roused themselves from the orief which this bereatement brought uith it, when they were called upon to bear anuther. It was fouml that oni setthing up, Mr. (iondon's aftairs, not more than a couple of humdred dollans were left for the maintenance of his family. In addition to this, though it was hardly thought worth mentioning, was a tract of land locited somewhere in Illinois, which Mr. Gordon had purchased sume yoars back for a mere song, and which was probably worth no more now than at that time.
The Giorion fanii) consisted, hesides Mrs. Gordom, of two chililren, wac a langhter of eighteen, the other a boy of tweive. Isabel (roxion was attractive both in mind and person, and before hev father's decease had been guite a belle in society. Then, however, her father was thought to be wealthy: Now that the fanily was alnost pemiless, a change quielily took plaee. Those whohad before been consilered intimate friends became chilly in their mamers ami seliom called. Still there was one gromel of hope left. Isabol had becn sought in marriage bs a young. man in an excellent husincss, preduciog it large income, and at her marriage ler mother and brother would undonhtedly Coc imvited to make their home with her husland. But failing prospervity was a touchstone which revealed the Imherent laseness of Gerald lhotes. IIe did not eall upon the family forsome time after their afliction. At length he callerd, lont did not appear as casy as usual.
"We have expleceted you before;" said Mrs. Gordon, with something of reproach in ber tone.
"I hardly thought you would wish to see me | while you were overcome by grief."

This was plasisille and might be true, but there was a stifiness in his tome which led to a suspicion of insimecrity:
"I ann so glat you arc hure," said Mrs. Giordon. "I wish to consult you about our plans for the future Foullnow, of course, that weare left with little or nothing."
"So I have hearl," said the young man in a constrained tonc.
"And we must, of course, make up our minds to be coing something. I have heard that you have a vacancy in your store. Pcrhaps you would receive Charlic into it? I feel ollliged to talic him auay from school."
"I am afraid he is to young for my purpose,"
said Gerald fhodes, in rather a forbididing manner.
"How old a boy do you expect to gets"
"About fourteen."
"Charlie is twelve."
"I-the fact is-I scarcely think he would an" swor."
"I think you mentioned two months since," saitl Mrs. Gorden, with justifiable indignation, "that you should like yery mach to have Charlie in your employ. But perhipps your feelings toward other members of the family have leen affected ly our change of eircumstances? I am confident that Isabel will not wish you to consider youself humel to her against your will."
"I wals about to speak of that," said (icmald! Whodes, in a tone half of shane, half of determination. "I have been led to think of late that we were not so well suited to cach other as we supposed, and perhaps it woukd be well to sever the commection."
"I am ghate of your opision, Mr. Rholes," sain Isabel, who had just entered the yoom and heard the last worls of the speaker, "and I camot be: too grateful to the change of circumstances, bitter as they may be $m$ other respects, which has revealell to me the true chamater oi the man to whom, I was about to sacritice my life:"
As she stood erect, with flashing eyes and thushed checks, looking down upon her recreant lover, he cowered bencath the glance, anll stanmered out that he wanted to do what was right, and hoped that he had not hurt her feelings.
"Jou need not tromble yourself on that seore, sir," saici Isabel, proudly, " 1 or could you have taken a more effectual methol for lissipating what. ever of regarrl I once had for you. For that I feel grateful to you.:

Gerald Rhodes dad not tind it agreeable to remain much longer.
"Well, I'm glad its over, muttered he as he left the honse. "I don"t want to be tied to a beggas: When I marry I want to extend my lousiness connection. How fortumate it was that I didn't mary last spring, as I thought of doing. Then 1 couldn't have helped myself. Now 1 am well off, with it. And yet she did look handsome when she stond there looking at me. I wish things hadn't happened so, for I shan't soon meet, with onfe that. would have done more credit to my choice."

It was now necessary for the fanily to seek some employment. Isabel procured a school that yielded, lier an income which, though not large, was of cssential service in procuring the fimily comforts.

Charlic also obtained a place in a store, and he, too, was alle to contribute his share; while Mrs. Gordon took charge of the housekecping, and did plain sewing. Of course they had moved into a smaller honse, and lived frugally. Of course, too, they were obliged to submit to many privations, and Charlie's education was suspended. From this condition they were finally relieved, and, strangely cnough, by Gerald Rhodes himself. As the readcr's curiosity is no doult excited by this state. ment, I will proceed without delay to detail the circumstances.

In the course of business he was called to Ghicago the spring after Mr. Cordon's eleceasc. As this was the first time he ever visited this enterprising Western city, he had a curiosity to look aloont lim and mark the cridences of its prosperity. His attention was called, in the course of a morning malk,toa large tract of Iand just outside thecity.
"That land,", he remarked, "will soon become of great valuo."
"Jes," was the ruply, " the city is fast reaching it, and it will soon be cut up for building lots. Five years hence and it will be worth, I am confident, not far from a hundred thousaud dollars."
"To whon does it belong?" inguired Gierald Rhodes, with intercst.
"If I am not mistaken, it was purchased yeans ago for a trille by a Mr. ciordon of your city. 1 was acquainted with the former owner, who regrets very much that lee did not retain his hold uppon it.'
"Mr. Gordon!" exclaimed Gerald, starting.
"Ies; do you know him?"
"I did formerly," said the young man, evasively.
Gierald Ihodes had now plents to think alout. He had no donlet, in his own mind, that this was the lot belonging to Mrs. Gordon, and it was evident that she was entircly ignorant of its value. After all, it would have been a yood speculation to marry Isabel. A humared thousand dollars in five years was no trific. It wonld at least treble his wealth.

Then came the thought "lerhaps I can ycet win Isabel for my wife. Ihave alrays liked her, and tice only objection 1 had was her poverty: Now this is rebioved, and I need feel no hesitation. I don't believesic will refuse me. A hasband with fifty thousame dollars is too great a catch to be given up."
Accordingly, within two days after his arrival home, he dispatched the following letter to Isabel:
"Dear Isaben, - I hope the former relation existing loetween us will permitme to address you in this menner. When, some montlis since, we agreed to separate, I did not know my own heart, nor how mach you were endeared to me. I fancied there was an uncongeniality, but I confess it was a delusion. I have since found that I did not know myself. loa will not, 1 hope, think that your change of circumstances had anything to do with influencing me. Fortunately i have enough to make it quite indifferent to me whether my wife has or has not any property. My chicf desire is to find one whom I can cstecm and love. let me hope to receive a favorable answer, and that the old relations existing between us may be renewel.

Vours affectiouately,
(Gfranis Rhoms:
P. S.-There is a vacancy in my store, and 1 shall be happy to receive jour hrother Charife into my employ.

The anazement of Isabel on receiving this letter can scarcely be conceived. She did not for a moment think of accejting the proposal it contained. She had once lost confidence in Gerald lhodes, aud with:her confidence and respect had vanished her love. Was it possible that he had so clanged as this letter would seem to imply? Was it possible that, after all, he had been cured of the meanuess which she supposed inherent? She did not know, but even if her love remained, the clange was too great and too sudden for her to crelit without snspicion. liesides, she had met another young man, in every respect superior to Gerald Ihodes, except in wealth, for of this he had little, and she felt that she had never truly loved until she met him. The next day aiter his own letter had been sent, Gerald liholes received the following reply :
"Ali:- Gfirald Rhodis-Sir,-I acknowledge the receipt of your note of yesterday; in which you express a desire to revive the relations exist-






















































placs." some liesitation.
"I will sell for that sum," said Mrs. Gordon.
"Then we will draw up the papers at once," said Mr. Quiill.
In fifteen minutes the sale was effectel and the moniey paid.
With the deed in his pocket, Germla Rhodes agnin went out to Chicago, when, what was his dismay to find that he had beco misinformed-that the Gor don lot was situisted five mines from the city and was, not worth five hiuplred dollars. In his cupidity he had overrcaclicd himself, and Mrs. Gorden was the gainer.
This piece of good fortune crabled Isabel to Fantry at once. Fortunc suiled upon her husband till even, in a pecuniary view, Isabel had done quite as well as if she had marricd Gerald Rhodes.



































































 friend.
"Aid now I can't sec liow I am going to be beter off ior this, if I get ary second huudred bace


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2gail: But how is that to be done?".
"Go and asl: him for it when he is alonc," said the counsel.
"Why, sir, asking won't do, I am afrail, without my witness, at any rate."
"Nover mind; take my alvice," sajd his come-

- scl; "do as I bid you and return to me."

The farmer returned with his hundred pounds, very glad to fiad that onco more safe in his possession.
"Now, sir, I must be content; but I don't see that I am much better off."
"Well, then," said the counsel, "now take your friem along with you and ask the landlord for the hamdred pounds your frieind satw you leave' with him."

Wo need not add that the wily landlord found that he lad been taken off his guard, while his honest friend returned to thank his counsel exultingly; with both hundreds in his pocket.

## A Royal Joke.

One does not think of Frederick the (ireat primarily as a jolier. His lifo was anything but humorons, and was the canse of more tears than smiles: But lirederickiloved a joke, especially if there was spice of maliciousness in it. His whole intercourse with Voltaire was a great. comedy-a burlesque of friendship and literary, patrovage. On one occasion Voltaire reyucsted the privilege of reading a new poem to him. Firederick was delighted, and named, an hour when he would graciously listen to the latest production of the great French genius. At the appointed time Voltaire appearcd, mannscript in hand, and read the poem. The king had meantime secreted behind a screen in the same room a man of a wonderful memory, who had the gift of repeating amy composition, however lengthy, to which he had once listencd. When Voltaire had concluded his recital, lrederick expressed great admiration; but declared the has heard the poem before. The poct. wis indigiant, repelling the charge of plagiarism with great warmeth. The king, however, insisted that the poem was by no means of recent origin, aud said there was a man in his court who conld repeat it frem beginning to end. He sent for the man who had been concealed behind the sereen, and who had listened to the reading, and requested him to repent a certain poem, quoting the first lincs. The man instantly, and to the great astonishment of Voltaire, repeated the poem word for word. The, indignation of the poet, when he discovered the trick, may be more easily imaginel than described.

## Children's Department.

Having several hundred lotters on our table from our young friends, we are unable to examine them in time to liake our avards of prizes in this number. Nor have we space to-insert any of the very'cecclient letters we havo received. We hope they. will pardon us, but perhaps it is as well; for doulbless ciery one who wrote to us is expecting, to see his or her letter in the Compasios. of course that conld not be donc, and the disappoint. ment to those whose letters are as well writtien as they could perliaps make them, but not so creditable as those of some who have had more practice or experience, will not be so great when they find that none are more fortunate thau themselves.

Wo present this month a new puzale, which wo think will prove very interesting. Solntions must be received beforo May $20 t h$, and all who send replies will be allowed to compete for the prizes Which we will offer in our next number. Our next prizes will be offered for the solution of puzzes that wall be given in the April, May, Juno and July numbers, and will be distributed on a plan that has nover before been adopted in C'mada. Look out for our next number, and do not forget to ask all your young friends to get their papa or mamma to subscribe for the Comisision asi Priachim.

Cunada Star Puzzle.


1 to 2 signifies a military instrmment of music; $\varrho$ to 3 , very desirous; $; 3$ to 4 , rewains; 4 to 5 , to seize; 5 to 6 , to lift; 6 to 7 , a decreo; 7 to $S$, conveycd; $S$ to 9 , not at any time; 9 to 10 , a hird uf prey; 10 to 11 , to whinny; 11 to 12, a harbour ; 12 to 1, a prince in India; -2 to S, instruction; 4 to 10, a popular magazine ; aml 6 to 19 , rivalry.

## Publishers' Department.

K Too Jate Agan.-Just as we close our forms for the piess this month, several pieces of music have come to hand. Wie are sorry we cannot use any, but we will probalily give in our next number a double piece, the "Students' lieunion."

Dost longer Ir.--A liberal support and a reasouable addition to our subscription list will enable us to completc arrangenents for further improvemonts with the opening of our next volume. We have guaranteed to enlarge our magazine in November if our friends will during the coming six months dónble our subscription list, which now numbers about 1,500 subscribers. This is not an impossibility, for if only one-half of the teachers in Ointario, nümbering over 6,000 were enlisted, the work would be done. We have, however, already a very respectable list of subscribers from the other Provinces and the United States, and are continually adding to our lists from these places. Our neighbors across the line are mich interested in our system of education, and look to the Companion asi Teicher for particulars thercof ; and in vicw of, this it should be our endcavor to make our magazine is prescntable and interesting as possible, and to vie with them in the support of our educational journals. At our present rate of snbscription we cimnot afford to place cantassers
in the tiehl, but must rely on the assistance vuluntarily given us by Inspecturs atad l'eachers, all of whom should be suthiciently merested, and many of whom are, to speak a govil word for our magaziue on every occasion upon which upportunity offers. Inspecturs can do agreat deal to catenil our circulation by mahing it a part of their wurk at every school to recommend the Cuniming ina, TEacher to buth trustecs and twacher. There are hundreds of teachers even in Ontario who have not yet seen it or heard of its existence, and withond the aid of Inspectors wo will tind it very difliendt to reach these. We are glal to be able to say that Inspecturs are leyiming to wake up on this suh ject, and having satisfied themselves on the charseter and stability of our magarine, have commenced to work up its circulation. One has sent in 47 names within three months, ani others who have yet done authing hase written their aplenval of cur work, and promisci to recommend it to all. Iivery teacher who is alive to the import ance of his work will not only subseribe for a good home educational journal, lint will use his entleavors to extend its circulation by inducing his friends and trustees to subscribe; ann we renture to assert that those who thus manifest their interest in the cianse of cducation will receive the approval and support of those whom he induees to subseribe fur a magazine in every way so worthy of their commenlation. Our readers will pardon us fur speaking thus freely of the merits of mer magazine, since wo but retleat the sentiments expresseel ly so many hundreds when they sent in subscriptions. We want all to understand that we are in carnest when we agree to enlarge in November, for we know tiat if our conditions are met, and our list is donbled by that time, we can in a fiw months thereafter add 2,000 moro sul,. scribers to the list. How many of our readers are sufficiently interested in the support of a spicy educational magazine of their own, to give it the assistance it repuires to complete the inturovements contemplated? We shall see. Meantime, dear reader, what are you doing for us:

The, New Yonis Slate Pant Co., whuse advertisement has appeared in out magaaine, as well as ucarly ail the leading papers in Canada and the United States, are swindlers. We belicve that other publishers will agree with us that if Geo. P. howell \& Co., of New Jork, whe slaim to be the printers' and puslishers' champion and protector, had exposed them at an earlicr date, they would have shown themselves much more worthy of the patronage they seck at our hands. It may nut le their busmess to enyune whether every aulvertiser is sound and reliable, but when a firm doing business in their own city sees fit to insert advertisements in a thousand papers throughout the country, and for which advertiscments they never intended to pay, we hold that ( G . I. Rowell \& Co. owed it to their yatrons to say that they were not reliable. Instend of this, after hundreds of pub hshers have been swindled, they vouchsafe a little second-haid information to the effect that "one of the victims of the Co., - has been looking up the standing of the firm, and claims that their whole assets would make a five-dollar bill blush." As for ourselves, we were induced to insert the advertisement from the fact that 80 many respectable journals had done so, and still do so; but, here--after, wo shall judge and act for ourselves, and may be able to say at some future day that the "N. Y.

Slate Paint Co." hiss put moncy in our pocket. In the meantime, when we want news pertaining to the craft, we shall search for it in the columns of the "Printers' Miscelliany," St. John, N. B., or the " Dominion Stercotyper," Brockville, Ont., bath of which arc crcalitable and reliable journals, and thuligh only in their first year, have already securnl entusive circulations aml a sood business connection in the United States as well as in Camada.

A Hand on Tresstrim. - We want to circulate the Compiniu. AND Ifichink more largely among trustecy, ad to accomplish this end we make the followins oflier to teachers:-lye will send a chronto, "Madtoire," "Inacerne," or "Isola Be:la," tu any teacher who will send us the names of their thre trustees and $\$ 1.00$ for the $\mathrm{C} . A \Omega 1$ ' T . sin months on trial, the curomo to le framed amil hums ul, in the school. This is an opportanity few trustees will refuse to accept, as by paying $\mathbf{j} 0$ cents he secures our magazine for six months and helps to procure for the sehool a handsume chromus. If any trustees decline to subseribe teachers may sulbstitute for their names that of nuy other parent in the section. If prefercel, we will receive the subscriptions of the thrce trustees (without chromo) for six months, fur one dollar-or only 33 cents cach-it lecing muderstood that this is fur a trial trip only, ami that the offer will not be repented. If mure than one club can be got up in any section, the orders will be filled by us at the same rate and on the same conditions as above. Roll in the names of the "territorial rulers."

To City Stascrabers.-Wo have several handred subseribers in this c.ty, some of whose subscriptions expire with this number. To many of these we know our paper is not so interesting as when a year ago only fireside matter was published, but we hope to retain the majority on our list, particularly as we can afford to make them a more liberal offer than we could afford to our subseribers gencrally. We will receive their subscriptions for six months, to complete the present volume, and will give them besides cither of the chromos "Maggiore," "Lucerne," or "Isola Bella," for §l. This we can do because we will not have mail. ing expenses to pay on their premiums, and because, in addition to this, we in most cases realize a small profit from the framing of their premiums. Subscriptions will not be solicited by a personal canvass, but those finding this item marked will please understand that their time is out, and that if they want to continue they must call at our office and renew.

The Best Menics. - "We find the Contranion win Teacrien the best melium for advertising, and will continue our advertisement." So says the "Teachers' Supply Bureau," Baltimore, Ont., who are doing an extensive and constantly increasing mailing business with teachers. Wo can givethem a hearty commendation, the "Arithmetic" they alvertise being a first-class article, and one which can unly be secured through them. The Ontario Gun Agcncy says. "Having hatl good returns from our last advertisement, we will give you two for your next issuc." Advertisers who have the right class of goods to dispose of will find our realers an intelligent class of purchasers.


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