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# Educational Weekly 

The Educatıonal Weekly,
Edited by T. arnold Haultain, M.A.

TERMS : Two Dollars per annum. Clubs of three. $\$ 5.00$. Two Dollars per annum. Clubs of five at $\$ \mathrm{I} .60$ each, or the five for $\$ 8.00$. Clubs of twenty at $\$ 1.50$ each, or the twenty for $\$ 30.00$.<br>New subscriptions may begin at any time during the year.

## published by <br> THE GRIP PRINTING aND PUBLISBING CO.

 toronto, canada.Jambs V. Wright, General Manager.
TORONTO, SEPTEMBER 30, 1886.
$A_{N}$ old and respected reader of the EducationalWeekly, commenting on our leading article on the subject of Obedience, says:-"Some [men] are so swollen out with a sense of their own impertance, so encased in the bomb-proof of their own excellence, that it would require a very sharp poignard and a very well pointed thrust-a "thou art the man"- to penetrate their thick hides. . . . What a man wants chiefly, first of all, is not Latin and Greek, and such like, but a true knowledge of himself, a hatred of all that he sees little and mean in his own heart, and an aspiring to that which is God-like."
Noble words and true ; old also as the Delphic inscription $\gamma \nu \tilde{\theta} \theta \tau \quad \sigma \varepsilon \delta v \tau \sigma \nu$, and Conseerated by the life and words of the most God-like Man. We do not enough Consider such subjects; we are too much occupied with "Latin and Greek, and such like;" we pay too much attention to methods and illustrations, to literature and science, to art. and current "pinion. "Hellenism" reigns supreme. "Hebraism" has been forced to abdicate. The great lesson for us teachers to learn is that both must go hand-in-hand. Latin and Greek are necessary, but conductthat is the pearl of great price for which all the knowledge of the assembled world Would not suffice. This it is that we must ${ }^{\text {remember }}$; and remember above all in the school-room. There we teachers are $l_{\text {ooked }}$ "pon, whether we will it or not, as exemplars ; and att first and all impor-
tant duty will be left undone if we do not in our smallest actions show to our pupils that we ourselves are "walking staunchly by the best light that we have;" are "strict and sincere with ourselves;" are " not of the number of those who say and do not ;" are "in earnest."

The following sentences from the Spectator (London, Eng.) contain much fcod for thought: "There is nothing in the mere development of intelligence to remove the original causes of crime or to cure either malice, or lust, or greed, and it died away before the evidence that education rather changes the form of some kinds of criminality than extinguishes criminality itself. The educated man swindles when the boor would steal, but the instinct of thievishness is the same in both, while greed is slightly increased by education. Education does not even make all men intelligent; for the new anarchist faction, which rejects all the teaching, not only of history, but of the commonest facts of experience, and even the conclusions of arithmetic, is led by educated men, sometimes of high intellectual attainments. M. Elise Reclus, author of the most delightful and learned geographical books, is an anarchist; Prince Krapotkine, whocounsels the destruction of society by force, is a man of unusual cultivation ; Mr. Hyndman, who, while he disclaims anarchism, avows a desire to seize all capital, equalize all men, and compel all to labour, is a graduate of London University ; and many of the cosmopolitan revolutionists are men familiar with many literatures. We have further been told, time and again, and are still told by the advocates of popular education, that that would be in itself a strong guarantee for social order. Education has gone on diffusing its benefits among larger proportions of mankind, and now while New England, Scotland, and Prussia; formerly among the most educated states, were also the most orderly, there are in Germany five hundred thousand socialists; and all over the western world, discontent with the order of society, especially
upon points which cannot be altered, appears to grow deeper and more violent. Thus, while education may still give us much in the end, the old enthustastic hopes from it were, as regards the time of their fruition, evidently illusory. It is no more a panacea than any other, and the good it does is as slow to develop itself as the good that rain does. We have all been just like the poor, and have expected pleasant results too soon, and from mere decrees and from too little labour."

Our colleges will soon re-open for the Michaelmas term, and the men who are returning or going up for the first time are doubtless thinking much about college life and aims and work. Whether the work is an irksome or pleasurable task depends largely upon the man himself and upon the nature and extent of his aims. In the Life and Letters of the Rev. F.W. Robertson, of Brighton, there is a passage in a letter to a young friend on the advantage of an honour course which may interest those who are about to enter on college life. In this letter Robertson says: "I believe with you that honours make little or nothing in practice, so far as they bear upon a man's future success. That is, the prestige of them does litt'e in life-is forgotten, or slightly looked upon by the world at large. But the mental habits got insensibly during the preparation for them are, I think, incapable of being replaced by anything ; and this quite independently of whether a man succeeds or tails in his attempt. To my idea the chief advantage is the precluding of discursiveness. For three years or four, a man has an aima long-distant, definite aim. I defy any young man to create this aim for himself. Grant his chosen aim well mapped out ; still he has chosen his own aim, cannot be certain he has chosen well, and becomes distrustful of the wisdom of the plan because his own. At college I did this, and now I feel I was utterly, irreparably wrong. Now I would give $£ 200$ a year to have read on a bad plan, chosen for me, but steadily."-Evanselical Churchman.

## Contemporary Thought．

Thishe：are tero many chiliten on the strects at nipht．l＇arents，if you comali realive the immoral education they ate receiving，you would certainly le tess lenient in this ditection．Insist that the parental soof covers all the chilitren＇s beads at nightfail，and set a worthy example yourself．－St． Thomas 7imes．
Mes tead trochs on this topic，and attend lec－ lures on that：decide that their childrels shalt be instracted in these hanches of hnowledse，and shall not be instructed in those；and all under the gutidance of mere custum，or laking，of prejuilace， whithout ever consideting the enormous importance of determining in some ratiunal way what things are really most worth learning．－Flecbert Spencer．
l＇olutak opinion apuears to consider drawing pureiy as an accomplishment．This is a pupular fallacy．The carliest effurts of a child with a pen－ cil are attempts to represent things．There is scarcely a person in Topeka but has more use for ablity to draw than for abitity to sepeat the sules of syntax，to solve problems in the＂rule of three，＂ of to deicribe the regetation of the table land of Thilet．Yet school time is willingly given to the batter and denied to the former．－D．（：．Tillotson， Topedia，Ran．
Tine sjstem of popular clection of the persuns who shall have the practical maragement of 入a－ tional liducation produecs occastonally some re－ narkalle results．Amongst these is the frequent recurrence of delates on questions of firmdamental conserpueace，which the speakers appeared to think they have discovered for the first time．Nu refer－ ences to asecriained facts，or to previous discus－ sinns，oceur in debates at some of our School lioards apon subjects on which authentic facts ate wailable，and on which the last word of argument has long ago been said．－The Sikooimasser．

Cuin．bren get much of their education from one another，and education by companionships may undo the best home－training，just as ：he home lessons may destroy those of the schools．Young persons are receiving an edueation in their modes of thought and specech，and in their estimates of men and things，and their juigments of right and wrong，from their associates，qaite as much as frum their teachers in school．it is a noted fact that the joung will soon become what their com－ janions are，and the worst are usually the best teachers，for men and children will imbile an evil coniagion more readily than they can impart a goud influence．！ivil is communicated more surely than gowi．一E．x．
＂Transison＇s last cfiasion，＂writes Mr．James Wiaylen，＂contans a gross likel on＇our fathers＇ who，he asserts，＇drove from out the mother＇s nest that young eagle of the W＂est．＇I beg to teninal him that oar fathers did nothing of the kind． laudean priestism it is which has to be credited with that affair；whereas＇our fathers＇were so far from participating in it that witen the Common－ wealth arose they gave the name of ifayfforaer to one of their war ships in order，no doulst，to help） keep the pilgrum fathers in everlastug renacm－ hrance．The ageney which，like a upas－trec，then shed its intleence wict 引3asich sucicly，atd whoch is not yet extirpated，was a genus alienum，a genus
anti Iritannicum，anti Christianum，anti lluma ＂1um．＂

Ture central aim in all the socalled＂new methods＂of teaching reading is to cultivate the thought and understanding．The mental site of reating is placed before the oral expression．Great attention is given to thought－seizing power of the mind through the eye，so that thoughts are seen on the printed pajes as wholes，just as they are eeceivel through the ear．The＂internal dipes－ tion＂of what is reat is decmed of greater conse－ quence than＂delivery．＂In short，silent reading is culusated by every vartety of means until the puphl can rapudly scan the pronted page，and by a wits of alchenty of mind，tell in his own language ＂hat he has gathered．Can there le mental exce－ cise lecter than this to give tleaibility of thought and tluency of expression？－Supt．S．F：Duffon， De：＂Hazen．Conn：

Is the ideas of gomi and evil there is doubtess． something more an．d far higher than is found in the ideas of mere pleasure and pain．Hut nobody could know the idea of pain from mere sense－per－ cepnion．It is from consciousness only that the tdeas of pleasute and pain are derived．Nobody has an idea of pain，or could understand what the word meaus，who had not fell a pain．Nubody could know an idea of pleasure who had not been fleasei with something．And I cannot doult that howerer evalted our ideas of good and happiness may tre，the；had their beginning and origin，their startung－puint at least，in the consciousness of pain and of pleasure or enjoyment．If I remember rishtly，llato somewhere introduces Socrates as saying that all good is relative－that is，whatever is good is goal for something，if not it is groa？for nothins．Hence we call an object or person as one not good－in reference to the welfare of others －of all concerned perhaps－of the whole uniterse， including the glory and honour of Giod，the Crea－ tor and Mural Governor of the Unitcrse．Jut the idea of goodress comes doubtless from per－ sonal experience－the consciousness of pleasure and of good in ourselves，even though in some cases that good comes as a result of what is painful to us，of is accompanied by something that is painful．Hut when we turn our thoughts from ourselves and the present moment，we call the object or event good．Mere pleasure is personal and selfish，but good is universal，and implies self－sacrifice on our part，or at least a willingness for such sacrifice．－－Prof．W．D．Wifson，LL．．D．， of Corncll Uniecrsily．
＂Jou ought to have heard llarrict Adam＇s paper at the alumne re－union，＂said Nan，＂uller topic was the quality of wonen＇s tearhing 25 com － jared with men＇s．She believes we can do as good work as men；but she doesn＇t think ue always sio．And she attributes our deficiencies to our failure to make the most of our spare time． Vacations lecing so much $\operatorname{lon}_{i}$ ：$:$ in our profession than in any other，the judicioas use of them be－ comes，relatively，much more important．She thinks we ought to make it our principle to spend them in laying up something that will be helpful when work legiats again．It needn＇t be in the line of study a！nays．A reserve force of healths and energs and good spirits may be just as valu－ allc．＂Talitha nudded．＂Thanh you，Nan，for helping me out with my argument．Harriet＇s
practice bears out her preaching，as I happen to know．I remember her saying to me onee，aprofos of this very subject of clothes，＇ 1 ＇m not ashamed to say I can＇t afford the money to buy handsume dresses．Why should I hesitale to say I can＇t afford the tine to make my dresses up handsomely？ My time and strength are mure valuable to we than mones．I make＂a poor hargain if to save money I waste time．If there is anything I am lieartily glad to pay out money lor it is leisure．＇ Ind so，from the very first，Harrict made it a point neser to have any more sewing than she could affurd to lise done．And the time the rest of us spent with our machines，she had for out－ loors and for books；and，as she grew more pros－ perous，for trawal．Fer a year or two I thnught she was making a great mistake．She used to look almost shabby when I met her at re－unions （and yet one searcely thought of her clothes after she began to talk－she had so much to say that was worth hearing）．Hut now see her，with her nine hundred a year and expenses，besties the dig－ nity of a seminary position！Oh，I tell you，girls， teaching is just like any other business－it pays to put capital into it，even if you have to scrimp your－ self in other ways for a while．＂一fiom＂A liaca－ sion Experiment，＂of Liily S．Nite，in the Ne：w Erigland fournal of Education．
Wilate are the lessons to be learnt from this ［the choice of boiks］discussion by readers who are anvious to make the most of their opportuni－ ties，and who（notwithstanding the blandishments of the read－anything－you－like schoc？of theorists） would chwose to make themselves aequained with the lest books in preference to the worst？There are many：but the leading moral appears to te that we shall have to depend in this matter largely upon ourselves，upon our own insight and disere－ tion，for it is quite plain that ous doctors are in hopeless disagreement．The main thing，after all， is the love of reading；to strive after that if we have it not，to foster and cultivate it when pos－ sessed．＂If you do love me，＂says Joria ：o her suitor，l3assanio，as he stands lefore the three mysterious caskets，hesitates as to the choice on which his life－happiness depends，＂if you do love me，you will find me out．＂In the intellectual life we are confronted not with three caskets，but with many．Of two things，hnwever，we may be assured：first，that if we love the treasure we shal find it out ；and，secondly，that it is not，like Portia＇s portrait，contained in one casket only． ＂The thing to ask about a book；＂says Walt Whitman，＂is this？Has it helped any hamen soul ？＂And Mrs．Barrett Browning struck a true note when she wrote in＂Aurora Leigh＂：

> "We get no good

13y locing ungencrous，ceen to a brok， And calculating profis－so much help By so much reading．It is rather whe We gloriously forget ourselves and ph．．．se Soul－forward，headlong，into a book＇s profound， Impassioned for its beauty and salt of truth－ ＇Tis then we get the right good from a book．＂ Let these，then，be the tests for our books．Are they helpful to human souls？Do they impassion us with their＂beauly and salt of iruth＂？If so， though banned by all the Professors，they are the bocks for us to read．If not，whatever name they bear on their tille－page，we may well leave them alonc．－H．Tattersall in The Schoolmaster（Lon－ （don，En5．）

## Notes and Comments.

We hope very shortly to be able to give our readers a series of practical papers on the Literature for the Entrance Examinations to be leeld next December, having arranged with several gentlemen eminently fitted to provide that which will be most suitable and helpful for teacbers on this im. portant subject.

A correspondeni writes to us as fol-lows:-"Would you be so kind as to tell me where I can get a book contaning exammation papers suitable for pupils preparing for Entrance Examinations." Vols. I. and II. of the Enucarional. Weekis contain a great many of such papers. See Indexes. The Examination Manaal, published by the Suppliment Co., Toronto, at 25 c ., also cor. tains many such papers.

Tue Canadian Government has issued a pamphlet, entilled "What British Settlers of the Canadian North-West Say about the Country," for distribution at the Colonial Exhibtion. The pamphlet is made up of extracts from letters of testimony collected from farmers in Manitoba and the Canadıan North-West, through the efforts of Mr. McTavish, the Land Commissioner of the Canadian Pacific Railway io Winnipeg, and Mr. Alexander ilegg of the company's London office.

The Ohio Educational Monthly says:Perhaps the most useful part of the contents of a medical journal is that which consists of accurate reports of cases ireated, detailing the whole history of the practitioner's dealing with his patient, and the results, whether goud or bad. Might not the teachers' profession gain much by introducing into educational periodicals some such method of recording actual experiences with individual pupils in the schoolrnom? The writer has often thought that great benefit would arise to teachers from comparing cases, especially in the treatment of incorrigible pupils. The pedagogic art, like other arts, is based upon the knowledge of facts. We suggest that some progressive journal start a department of Recorded Cases of Educational Trearment.
"We incline to the idea," eays an exchange," that the provision of faciluties for higher education onglat to be left to private benevolence. There are pienty of wealihy men in the country, and there would be no lack of colleges or college endowments if the Ontario Legislature were to withdraw its appropriations from Toronto University. Toronto would still maintain a College, and Hamiton, Kingston, Oltawa and London would compete for the supremacy. The several Churches would rally to the support of their respective institutions, and wealthy
men would have more heart to make sub. scriptions and endow chairs if the State left them to do that work. In short, the State supported College and Universty is a dam. per upon private benevolence."
"Wh:, in common with the general public," says the Sihoolmaster (London, Eng.), "are so unused in Englend to see pubtic honours conferred upon teachers, that when we read the annouctment that a Mr. Philip Magnus had received the honour of knighthood at the hands of her Majests, we inyuired whether there was another Pinhip lusgnus besides the teacher, author, and indetangable head of the City and Guilds of Londen Institute, and first principal of the Finsbury Technical College. We are glad to find in t this Mr. Magnus, and no other, is the rectpient of the honour. Mr. Magnus is doubt. less rewarded more for his public work before the eyes of the public than for his labours in the schociroum; but this departure having been made, the time will come when the silent unobtrusive work in the schoolroom will receive its public reward. We take it that the profession is honoured in the person of Sir l'hilip Magnus. The fountain of honour has been long open io doctors and lawyers; why should schoolmasters be exciuded from its cheering influences?

A corresponiment has requested us 10 publish a list of text-books authorized by the Department. A fu!l lis: would include, we fear, many books that are out of print, and some that ought to be out of print. We have before us only a somewhat antiquated regulation un the subject of authorized textbooks, but as soon as the latest instructions have reacheri our office we shall be glad to give the information desired. Meanwhile, the following list would supply a good high school course:-

English.
Craik's English Literature and Language. Bain's Yhetoric and Composition.
L.sTIN.

Dr. William Smitn's Principia Latina, 1., 11.

Harkness's Latin Grammar.
liradley and Arnold's Latin i'rose Composition.

Latin Composition by means of the Englisu Idion, by E. A. Abbot.

For advanced work, the L,atin Grammar of Madvig or Kennedy may be consulted.
greek.
Farrar's Greek Syntax.
Harkness's First Greek Book.
Arnold's Greek Prose Composition.
Liddell and Scott's Greck English Lexicons.

Jelfs Greck Grammar for aduanced : :nit. srenchi.
De Fivas' Grainmaire des Giammarres. De Fivas' Elementary Fiench reader.

Surenne's 1 rench Dictionary.
Brachet's Public Sehool Elementary lizench (irammar. (March, 1S79)

## CERMAN.

Ahn's Graurmar.
Adler's Reader.

## Mathl:Majlcs.

Hamblin Smith's Arithmetic.
Elements of Algebra, by Loudun, Tudhumer, or Ilamblin Smith.
The High School Algebre, b; W. J. Robertson.

The Bements of Aigebra, by J. A. Mc. Lellan.

Einclat's Eiements of Geometry.
Kithland's Statics.
Eiementary Ilydrostatics, by J. Hamblin Smith, M.A.

Magnus's lessons in Elementary Mtchanics.
Wormell's 1'rinciples of Dynamics.
Histoky, Geomaphy, and anthuitirs.
Longman's Epochs of Ancient History:
L.ongman's Epochs of English History.

Edith Thomp:on's English History.
Green's History of the English l'eople.
Schmitz's Ilistory of Greece.
Schmitz's History of liome.
Jeffers' I'mmer Canadian Ilistory. (March, 1S70.)

First Steps in Classical cecograpliy, by d'rof. I'illans.
Schmitz's Ancient Atlas.
The Books on Modern Geography authorized for Public Schools.

## physical science.

The Elements of Structural Botany, with special reference to the siudy of Canadian Plants, by Professor Macoun and H. B. Spotion, M.A.

Kirkland's Chemistry.
Keynold's Chemistry:
Chemistry, by H. E. Roscoc (Science Primers).

Lessons in lilementary Chemistry, by Prof. H. E. Koscoc.

Miller's Inorganic Chemistry.
Lessons in IElementary Physics, by Professor lBalfour Stewart.

Physiology (Science Primers), by Prof. M. Foster, M.A.

Lessons in Elementary Phyeiology, by Prof. Huxley.

Introductory Text-Book on I'hysical Geography, by David Page, F.R.S.E.

## miscelidaneous.

Book-keeping, by Beattic and Clare.
Walter Swith's Drawing Series and Manuals.

I'hysical Culture, by E. 13. Houghton.
The :Iigh School Keader.
English and Canadian History for Public Schools, by W. J. Robertson and 6. Mercer Adam.

Literature and Science.

## TIIS RIECEN' PROGRESS OF SCIENCE:

Wt: take the fullowing from the address at Sir William Dawsun, l'resident of the British Asenciatiom, delivered at lifmingham on the ist of September:
The prind of suemt-one jears that has elapsed since the lavs lummehtam meetias, has been an era of public muscums and laboratories for the teachng of science, frow the magnificent nathonal institutions at South Kensington and those of the great Universities and their colleges down to those of the schools and field clubs in counery towns. It has, besides, been an era of gigan. tic progress in original work and in publica. tion-a proress so rapud that workers in every branch of study have been reluctantly obliged to narrow in more and more their range of reading and of effort to keep abreast of the advance in their several departments. Lastly these iwemtyone years have been characterized as the coming of age of that grear system of philosophy with which the names os three Enghshmen, Darwin, Spencer, and Wallace, are associated as its founders. Whatever opinions one may entertain as to the sufficiency and finality of this philosephy, there can be no question as to its influence on scientific thought. On the one hand it is inaccurate to compare it whil so entirely dif. ferent things as the discovery of the chemical elements aud of the haws of gravitation; on the other, it is scarcely far the characterize it as a mere "confused development" of the mind of the age. It is, indeed, a new attempt of science in its maturer jears to grap. ple with those mysteriuns questions of origins which occupied it in the days of its infancy, and it is to be hoped that it may not, ithe the Titans of anciens fable, be hurled back from heaven, or, like the first mother, find the knowledge to which a aspires a bitter thing. In any case, we should fully understand the responsibility which we incur when, in these times of full-grown seience, we venture to deal with the sreat problem of origins, and should $b$ : prepareci to find that in this field the new ohilosophy, like those which have preceded it, may mect with very imperfect success. The agitatiou of these subjects has already brought science into close selations, sometimes friendly, sometimes hostile, it is to be heped in the enu helpful, with those great ard awful questions of the ultimate destiny of humanty, and its relations to its Creator, whe: must always be nearer to the human heart than any of the achievements of science on its own ground. In en ering on such questions we should proceed with caution and reverence, feeling that we are on holy ground, and that though, like Moses of old, we may be armed with all the learn-
ing of our time, we are in the presence of that which while it burns is mat consumedof a mistery which neither objersation, ex. periment, nor induction can ever fully solve. In a recent nddress the hate president of the Rogal Society called attention to the fact that within the lifetime of the older men of science of the present day the greater part of the vast body of knowledge included in the modern sciences of physica, chemistry, biology, and geology has been.accumblated, $\mid$ and the most important advances made in its ! application to such common and familiar things as the railway, ncean navigatoon, the electric telegraph, electric lighting, the telephone, the germ theory of disease, the use of an. :hetics, the processes of metallurgy, and the dyeing of fabrics. Even since the last neeting in this eity much of this great work has been done, and has led to general results of the most marvellous kind. What at that time could have appeared more chimerical than the opening up by the enterprise of one British colony of a shorter road to the East by way of the extreme West, realizing what was happlly called by Miton and Cheadle, "the new North-West Pas. sage," making Japan the next neighbour of Canada on the West and offering to Britain a new way so her Eastern possessions; or than the possibility of this Association holding a successful meeting on the other side of the Atlantic? To have ventured to predict such things in ${ }^{2 S G 5}$ would have appeared quite visionary, yet we are now invited to meet in Australia, and may proceed thitier by the Canadian Pacific Ranlway and its new lines of steamers, returaing by the Suez Canal. Today this is quite as feasible as the Camadian visit would have been in $\mathbf{t} 56$. his science that has thus brought the once widely-separated parts of the world nearer to each other and is breaking down those gengraphical barriers which have separated the different portions of our widely-extended Brisish race. Its work in this is not yet completc. Its goal to day is its starting point to-morrow. It is as far as at any previcus time from seeing the limit of its conçuests, and every victory gained is but the opening of the way for a further advance. liy its risit to Canada the British Association has asser!ed its Imperial character, and has consolidated the scienutic interests of Her Majesty's dominions, in advance of that great gathering of the industrial products of all parts of the Empire now on exhibition in 1 London, and in advance of any political plans of Imperial Federation. The:e has even been a project before us for an international scientufic convention, in which the great English Republic of America shall take part -a project the realization of which was to some extent anticipated in the fusion of the members of the British and American Associations at Montreal and Philadelphia in 1S8 ${ }_{4}$. As a Canadian, as a past President
of the Ameriatan Association, and now honnatred with the Prenidency of thi, issoctation, I may be held to represent in my own person this scianific union of the British Istands, of the various Colones, and of the great Republic, which, whatever the difficulties atten ing its formal accomplishment at present, is ceriain to lead to an actual and real union for sciemtific work. In furtherance of this, 1 am ghad to see here to day mfluen. tial representatives of most of the British Colonies, of India, and of the United States. Ne welcome here also delegates from other countries, and though the barrier of lannu age may at present prevent a larger uniun, we may entertatu the hope that Britain, America, India, and the Colomes, working together in the i terest of science, may ultimately render our English tongue the most general vehicle of scienesfic thought and dis-covery-a consummation of which, I think, there are at present many mdications.

Thes shining metallic incrustation found upon the teeth of some of the cattle which are pas:uring along the he aks of the Carson River, California, has been popularly pronounced to be a coating of gold and silver deposited upon the teeth from the mineral impregnation of the water and grass, attracted through the magnetic action of the atimal's budy: Some of the bullion incrus. tation or deposit was submitted recently to I'rofessor 1:. 1.. Fielding, Chief Assayer of the Consmidated Califormia and Virginia Assay Office in this city, says the New Oiteans Times-1)emocrat. Uipoa critical analysis of the material he pronounces it to be pure calcium sulphide, with nat the least trace of ewher gold, silver or quicksilver. Thus another hopeful delusion is dispelled, and the contemplated source of revenue from scraping the animat's tecti periodically rendered useless and worthless. - I.x.
"Charblcinhess," says one, "is in a man's work what oiling is to machmery; it puts a smonthness, a beauty into it, as the sun often hangs a golde: fringe on the retiring cloud. liesolving to see the world on the sunny side, we have almost won the batle of life at the outse:.' Resolving to see our work on the bright side, have we not zained the victory over it? That person is to be indeed pitied who woes through this beamiful world murmuring, fretting, and complaining of his lot in hife. Man is out of harwony with the uraverse unless he is happy. There is a tireless glee in the motion and life of all on which we look. There is music everywher=-mustc in the schoolrom, music in the hali; mane by our fire. side bright, and music for us all.-American Teacher.

## Special Papers.

AN /NVESTMENT THAT PAVB.
Ar the 'Teachers' Assoriation merting held at Truro in July last, I'rincipal Brown, of Bridgetown, read an excellent and thoroughly practical paper on "An Investment that Pays." His object was not to create a sensation among the teachers, neither was it to excite curiosity. but to give a few practical sughestions in relation to some particular duties, which are too frequently either overlooked or ignored.
"Now you very properly ask," he axid, " What is the investmen!, and whas security have we for its payment? It is not a business speculation, attended with getat loss of time, money, energy, like the gre:t South Sea bubble. 1 simply ask the investment of a litle time devoted to the farmation of good manners and conduct on the part of those committed to your care. These qualities should $b=$ component parts of the teacher's character if success is to accrue from his labours in this direction. Practice and not theory is required. Example before precept is the law here. The age of civilization demands an interest in the refining influences, or such training that will make the lad or liss a thorough gentleman or lady, and an ornament to soriety. Manyteachers seem to negiect this duty, and are quite indifterent even in their own associations and habits. Sometimes this is seen when the teacher begins to form acquaintance with those with whom he is about to associate day by day. Not unfrequently do :eachers at this critical period create impressions that will pave the way for complete success and genuine comfort in his work, and on the other hand quite the opposite occurs, blighting his future prospects and defeating the great object for which his services were secured, and his moral infleence hargely discounted. We do not wish the teacher to become a morose, unsocial being, yet he should be careful to discriminate and to know where his sociability shouhd find a resting place. The play grwand is a very important place for hum to make this investment. It is here where pernaps the lowest specimen of humanty may be encouraged to aspire after the good, pure and noble in words and deeds. The school-rocm may be approached in two way: 1. By a phleg. matic sort of a way, cold and indifferent, hearing and secing nothing; this is a very profitiess way. If teachers would have the respect of their pupils, they must first show respect for their pupls. By a kind manner and friendly feelings :oward their pupils, teachers wul swon instnuate themselies into the sympathies of therr pupits. Children can soon measure a teacher, and measure correctly. If they see an interest manifested
in their welinge, they som have configence $i$ in their teacher, and to him is opened a broad field of usefulness. True, the teacher needs discernment, also skill : make the most out of this field. Indifierence on the part of a teacher may soon create for inim. self a state of affairs or a condition of things which he cannot overcome. It is a mistake to defer the establistiment of order and discipline. This should be done at the beginuing.
"Discipline should be strict but not severe. This suits the child the best; allowin: children to have their own way is a mastake. Much attention should be given to the position and habits of pupils during ectitations, for it is here that much mischief is donc. The grand object of teaching should be to prepare children for the performance of their various dutics of life in the best possible manner.
"Summing up, ist, The teacher should exercise precaution in regard to deportment, so that favourable impressions be made throughout the section. ind. Recog:ition of pupils on the street, so th:i they mas respond. This is a very important point, as chaldsen are sensitive and quick to notice either a slaght or a recognition. ' 1 don't like ny teacher,' said a boj. 'Why, Johnnie?' • Because he never speaks to a feller when he meets him.' 3rd. A 'good morning' salutation on the playground or in the school-room pays excellently well, for it opens the way for further mutual confidence between the pupil and teacher. fth. Attention to posmon in classes, character and style of reciations, etc., since these tend to cultarate graceful movements, and dignified language, influencing the social circles, morally, mentally and physically, which influence wall be felt throughout the whole schuol. section."

## HIGIER EEDUC.HTION AND TIE HEALTM OF WOMME

Ar the fify-fourth annual meeting of the British Medical Association-au association which was established for the promotion of medical and the allied sciences, and the mainenance of the honour and interests of the medical profession, the President, Dr-Withers-Moore, F.R.C.P., senior physi ,iau to the Sussex County Hospital, Brif.aton, delivered the opening address. He said : - This, then, is our question. Is it for the gond of the human race, considered as progressive, that women should be trained and admitted to compete with men in the wass and walks of life, from which heretofore (as unsuited to their sex; they have been excluded by feeling and usage, and largely, indeed, by actual legishation? Will it be well that we should have female ductors and divines, haweers, mathernaticians, and astronomers, professors, publicists, and Ministers of State? Might not one add female
generals and commanders of armies? For Amas mian ambitions are still alive; witness the llowager M. oharanee of Baroda's recent offer to the Vicerny of India of a corps of women warriors to and him in solving the Afighan frontier dificulty. Will it be well, then, that our women should be equipped and encouratyed to enter into the battle of life, shoulder to shoulder and on equal terms with men? Do the 'rughts of women,' does 'justuce in women,' demand it? Do the 'duates of women' (due in the Whole human race, and to their own sex and selves as a part of that whole) admit it? The whole chivalrous ideal, certainly, was a very different one. It was that stiecat of the brow and sweat of the bram should be mainly masculine-that man should go forth to adventure and achevement, 'to lis work and to his labour until the evening,' while woman should wait at home and welcome him back again, and lend her car to his tale of dong or of suffering, and reward hom with her gentle sympathy and loving apprectation.

> She loved we for the dangers I had passed : And I loved her that she did pity them.'

To the men of 'the old time before $u$ '' those words of Othello's seemed merely natural. Their thought was, not that woman should have her fair chance with man in the batte of life, but that she should be shielded and sheltered from that rude battle, if possible, altogether ; that man should fight it for her. But if we are to 'change all that,' then those who enter into the conflic: where cuffs are going - man or woman-must be content to be cuffed and cuff back again; and the age of rhivalry and chivalrous courtesy (so far as woman is concerned), with all which that courtesy did to make life noble and beautiful, must indeed be held finally to have passed away:" Dr. Withers-Moore next laid before his hearers; his reasons for replying in the negative to the question proposed. "I think it is not for the good of the human race," he said, "considered as progressite, that women should be freed from the restraints which law and custom have imposed upon them, and should receive an education intended to prepare them ior the exercise of brain power in competition with men. And I think this because I am persuaded that neither the preliminary training for such competitive work, nor the subsequent practice of it in the actual strife and struggle for existence, can fail to have upon n . ' n the effect of more or less (and rather more than less) indisposing them towards and incapacitating them for their own proper function-for performing the part, I meanwhich (as the issue of the original differentiation of the sexes) nature has assigned to them in the maintenance and progressive improvement of the buman race. This - higher education' will hinder those who would have been the best mothers from
being mothers at all, or, if it does not hinder the: more or less it wili spoil them. And no training will enable themselves to do what their sons might have done. Bacon's mother (intellectual as she was) could not have produced the 'Novum Organum,' but sheperhaps she alone-could and did produce Bacon." Dr. Withers-Moore next proceeded to set forth facts and to cite authorities in support of his arguments. "A inan's fate," said an Oxford tutor, looking back upon his college experience, " a man's fate all depends on the nursing-on the mother, not on the father. The father has commonly litte to do with the boy until the bent is given and the foundation of character laid. All depends on the mother." Galton, in his "Heteditary Genius," after citing, ar exam. ples of remarkable women, the mothers of Bacon, Buffon, Condorcet, Cuvier, D'Alem. bert, Gregory, Watts, and others, adds :"It appears, therefore, to be very important to success in science that a man should have an able mother. . . . . Of two men of equal abilities, the one who has a truth-loring mother would be more likely to follow the career of scisnce." Again, who, in Lewes's "Life of Goethe," can read the poet's early history, with its absorbingly interesting account of the training he received from his mother, without feeling how much the marvellous material owed to its marvellous manipulation; how what the son grew into was very largely what his mother made him into, or, at lowest, prepared and fitted-in fact, enabled-him to grow into? What if Goethe's mother had never married? Would he have written Fazst?

## (To be continuca.) <br> GRAMMARR.

Grammak is a study which runs through all our work, and cannot be restricted to the formal class. A good way of watching pupils is to set them to watch each other. I told my pupils of a teacher who made a leather medal, and bestowed it upon the first one making a grammatical error, this one to place it on any one be detected in fault. They desired me to make one, and, after some solicitation, I consented. It was very interesting to see the earnestness displayed, and I find that Mason's Grammar has been consulted to find the use of shall and will, shotidt and soouht, fine first tiun, or the tavo first; and thic objectice case of pronouns, and the verib to bc, are receiving unwonted attention. The teacher found also that it was impossible, with those bright eyes watching, to be like the famous Pecksniff, "like a direction post, pointing out the road to virtue, but never going there himself," for the first thing was: "If you piease, is it correct to say, 'Let cach pupil tate thicir slate,' you said it just now?" And jezu and mecasured were their words while I bore the medal. The Tiachers' Aill

## Educational Opinion.

EMULATION.
Enulation in a variety of ways takes hargely the place of the rod of forty years ago. The physiologist who looks at the matter will find that the change is not for the better, in so far as the bealth of the child is concerned. The whip does its work quickly and is over, the child going about his tasks or play. But the goad of emulation never ends. Its influence upon the older giris is especially powerful. By it all sanitary precautions are swept away. Vehement excitement, with alternate elevation and depression of spirits in rapid succession are incessantly hariass. ing the brain and nerves. This does not end with the school hours, but often extends through the play hours, and not unifequently through sleep. The grading of the pupil is also a perpetual source of worry. Snall I pass or shall I be set back in grade? Such is the question children are led to ask, rather than some intelligent query reapecting the subjects of study. It is this grading stimulus that is the motor power of both the average teacher and scholar. The hope to get into the next grade, and the iear that he may fail, keeps the pupil in a state of worry. A boy finds himself literally a part of a great machine. If he can work as does the ma. chine he is all right, but if he cannot hr, is crushed. Failure to keep up with the ma. chine implies disgrace, loss of self-respect and confidence, grieved or angry parents, the jeers of school-fellows, etc. Olten sickness compels him to desist, so that days and weeks are lost, and finally the grade is lost. Besides, he often feels that his rights have been outraged, that he is a better scholar than one who bas walked by him. American Lance.

## THE MEANING OF "EDUCATION."

Hitherto, for the most part, education has been regarded either as a sort of craft or as a branch of religion and therefore an affar of the Church. But of late men have come to see that cducation is a science. Dr. Donalison, Rector of the High School at Edinburgh, was one of the first to impress this view upon the public. His theory was something like this: "the term 'education' is used in two senses, a general sense and a more restricted sense. In the wider sense the term is applied to the drawing out of the powers of man, whatever be the agents which produce this effect. In this sense, external nature, the experiences of life, friends and enemies, in short, all that affects 2 man, are educating him. And a science of this kind of education would be an exhibition of the laws which regulate the development of his
physical and mental powers. In the more restricted sense of the term, education is the conscious effort of human beings to draw out the nature of other human beings to the utmost perfection. Education, being a conscious effort to effect a purposes and implying the application of means to an end, is therefore an art. When, therefore, we speak of a science of education, we do not mean to assert that education is itself a science, but that it is based on a science; that a set of laws which it is the business of a science to discover can be used in the work of education." In short, Dr. Donaldson contended that education, like medicine, is based on certain great principles, that a knowledge of these principles can be imparted, and that education, therefore, can and ought to be taught as a science. The importance of education to the State and to the individual has long been recognized. Locke did not exagcrate when he said in his treatise on the subject that " of all the men we meet with, nine parts of ten are what they are, good or evil, useful or not, by their education. It is education," he added, "which makes the great difference in manhood. The little or almost insensible impressions on our tender infancies have very important and lasting consequences; and there 'tis, as in the fountains of some rivers, where a gentle application of the hand turns the flexible wa:ers in:o channels that make them take quite contrary courses; and by this little direction given them at first in the source, they receive different tendencies, and arrive at last at very remote and distant places."-Mail.

## THE EVIL OF LARGE CLASSES.

The teacher who will succeed must not fall into the error of dealing with his school as if it were simply an aggregation of little people each like the other, and all of whom may be taught and developed in the same general manner. A school is a community of individuals, no two of whom are alike and no two of whom can be most success. fully taught, governed or d.veloped in exactly the same way. The true :-acher does not teach in a general way for all of her pupils, but she teaches in a special way for each of them. Of course there are limitations to this. A teacher's circumstances or surroundings may be such that she cannot individualize as she should. While in such a case it is not her fault, nevertheless the fact stands that her success will be diminished just to that extent, and the best results will not come from her work. Herein lies the evil in large classes and large schools. No school should have a number of classes so great that the teacher will not have sufficient time to devote to each class, nor should any class be so large that the teacher is prevented from teaching the members of it as individuals, and compelled to lec:ure to them as a body.-Wiest Virginia School Journal.

## THE DULL I'. TYE SMART BOY.

AT Chautauqua we again heard the oft-repeated fallacy, " it is the dul! pupil who needs altention: The smart boy will take care of himself." This reminded me of a little story. An old farmer hired a lubberly boy (because he was cheap) to hoe corn, and instructed him to "thin out" to four stalks all hills containing more than that number. The boy went to his task. Toward noon the farmer visited the field to note progress, and arrived in time to witness the "thinning out "process. The cheap boy had invariably pulled out the largest and most vigorous stalks when "thinning" was necessary. When indignantly asked to state why he did so absurd a thing, he replied that it was to give the little ones a chance.
If any human mind needs careful watching and pains-taking training, it is the active, keen, alert, rapidy-developing mind of the " smart" boy. Let him "take care of himself," and when it is too late it may be discovered that, from want of proper guidance, his " smartness ' is a curse to himself anu to the world. The smart pupil is morally and legally entitled to his just proportion of a teacher's time and attention, and ought to have it, and no more. He should not be sacrificed to the supposed needs of the dull pupil. Give the smart boy a chance.-Ohio Educational Monthly.

## A TASTE FOR GOOD REGDING.

To combat trifing, frivolous reading, to be constantly a vigilant guard aganst light profitless reading, are duties ton clearly known to even need discussion. The extreme carelessness and wilful ignorance in these matters are appalling, and the wasteful extravagance of precious time should receive our greatest condemination. Teachers can do much in crushing these growing evils that follow in the wake of the wide-spread cheap publications, and in the growth of the abnormal taste of the young to devour books indiscriminately. The pernicious effects of novel-reading, and that of the trashy weekly papers, call the more loudly upon us as conscientious teachers, as moral instructors, to teach the child to select for himself such reading as will prove of everlasting good, instead of everlasting evil.
This part of a child's education is usually very much neglected at home. The taste for reading good books, and the reading habit, must be developed, just as a child is taught good manners by a consiant repetition of that which is pleasing. Too many parents pay no attention whatever to the boy's reading, while they clothe and feed his body with great care. We may not expect, in general, that a child will learn the selection and use of books at home. The average young lady, who perhaps is a graduate of some school, is so much occupied with
society and the numerous crazes of the day, that she decms good books of minor importance. The average young henteman is even less inclined than she to read systematicnlly and with a purpose.-Indiana School 'rour. nal.

EDUCATING THE DISPOSITION.
THE teacher is so often limited in his work by :he exactions of the written examination that he has little time, and less energy to give to any department of school work other than crowding the mind with lacts as prepar. atory for the question-answering test. There is fully as much profit in training and developing the child's disposition as in teaching half the tacts and processes required of the school; and $1 t$ is as good mental disciphane to conquer a cantankerous disposition as to conquer the cantankerous name of an Astatic mountain. We advocate the systematic education of the disposition in school as a means of doing the children much permanent, personal goor ; as a means of making a definite return to the tax-paying community in the matter of character, loyalty, and industry; and, as a means of intellectual de. velopment. Beyond this we recommend it as an aid in school discipline. We illustrate our thought by reference to the sentiment of jealousy, one of the serious mischicf-makers of the school as well as of society in after life. It is common to all people, though of different degrees of intensity in different individuals. It does not indicate high sensibility as is so often falsely claimed, and does not indicate strength in any direction, although men and women of strong personality have this weakness. A person of calm and equable temperament may become its temporary slave. Sometimes it smoulders and destroys the peace and happiness unvoiced, and again it springe into fury, like a fire that has been burning in seclusion, drying the material read! to flame up in uncontrollable passion at an unsuspected moment. It is not uncommon for a child of fifteen months to manifest jealousy as regards the attentions of mother or nurse. Jealousy is largely the result of proprietary and imitative tenden. cies. They want to handle, or possess, whatever they see others have; they want to do whatever they see others do. The worst phase is when self love and vanity get mixed up with it. The teacher who can so direct the children under his care as to reduce the vicious tendencies of jealousy to the minimum will make discipline easy; will give better mental training; will fit for better home-life, society, commercial and political ife. What is true of this sentiment is true also of envy and all other annoying manitestations and innate vices of dispositton. The successful teacher appreciates his privileges and responsibilities, and finds ways of fis own to rectify the wrong and intensify the right.-New England Fourral of Education.

## Mathematics.

## MATHE, MATMAL TMCK゙S.

Tilts digit 7 will divide numbers of two ar the fogutes if their lefo hand figure or figures are donble the right ham ligure, as in 21, $4=6,6,54,105,126$, 147 , etc. Or if the righe hand figure be of of the left hamd figute or figures, as in 91, 18 $2,273,364$, etc. : so 7 is also a divisor of numbers of theee or four figures in which the teft hand tigue or figures .tre 1 of the $n$ int hand, as in $315,735,945,1155$, ${ }_{17} \mathrm{~S}_{5}$. etc. Or if the wo rught hand figures make $1 / 3$ of the left hand thgure or figures, as in 301, 903, 1204,4515 , ctc. Or if two smular fryures enclose uphers, as sowt, 2002, toot, burs, etc. Ur if two in numiciors of five figure, a cypher stands between the first tixu and the last tuv ligures, as in 20010, 11011, 12012, tG016, ctc.
I will proceed tu speah of the property of 19and of all othets, ending in the digit 9, as 23, 39 , 49. ete., etc. What will lie stated is true of all numbers a ming in 9 , but the explanation will be lomited (for convenience) to those that occur under 100, as 19. 29, 39, 49. cte , up to 99. Now first dividing all the numbers tretween 1 and $t 00$ into groups of ten each, there will be ten such groups, as 1 to $10 .-11$ to $=0$. - 21 to 39 , and so on. Now suppose you desire to know whether a cetain number le divisible by. saj 19, as for instance, 3 s. Now 19 is in the secomd group. So multiply the $S$ of the number $3 S$ by 2 (whelh represents that in is in the secoud group), and you get $S$ by 2 , which epuals 16 , to whuch add the 3 , the first fygure of 35 , and your result is 19 : and so 35 is divisible by 19. Wu the same with the number 152:2 multu.
 is 19 , and so 152 is livisible by 19. Du, the same with the number $+56: 6$ multiplied by 2 (for sec. ond groupl) gives 12, to which add 45 , and your sesult is 57 , wherein the t9 does not appear. Tiry the experiment on this 57; 7 multiplied by 2 equals 84 . and 14 plus 5 pives the 19. On larger gumbers this may hase to tre done several times, but if the numbers given le divisille by 19 , this same 19 will $k$ es sure to crop out eventually. Try 45,655 ; 5 multiplied by 2 gives 16 , add 4,563 and you wall have 4.579 , multuply 9 by 2 and you will have 1S, add the 457, and you have 475, but yet nu 19. Try again: Multuply the 5 by 2 and you have to, add the 47 and you have 57 , thet. multiply this 7 by 2 and you have 4 , to which add the 5 , and 19 in the result, and 45.63 S is divisible by 19.

The same hold. true for all numbers ending in 9, and above these ten groups of 100 . As of 109 in the wh group, of 119 in the 12 th group, and so on and on. l.ct one or two examples suffice. Is 19 itself divisible by ag? Yes, for tig being in the 12 th :roup, multiply the 9 of 199 by 12 and you have 10 , to which add the 11 and you have 119. Is 14,161 divisible hy 129 ? Yes, for maltimying the 1 of $1+, 161$ by $12-$ ior group of 119 , and you have 12 , add the $1+16$ to 12 , and you have $\mathrm{t}_{4}$ 2S ; multiply this S.by in and you have 96 , to which add 142 and you have 23 , but yet ar 19. Try again,-multiply this 8 hy 12 aras you have 96.10 whech add the 23, and you have the 119; then 14,161 is divisitile by 119.-Salent Gactle.

TORONTO:
THURSDAY, SEPTEMMBER 30, :886.

## PRACTICAL EDUC.ITTON.

Ont: of the strongest argumemts on behalf of a purely business education was adduced the other day at the annual meeting of the Canadian Shorthand Society, held on the aznd of September at Hamilton, Ontario. Mr. G. W. Johnson, head master of the Central School, in the course of an essay entilled "Shorthand in a Business Course," said that "apart foom its commercial value in business, he considered it a much better mental discipline than classics or mathematics, and predicted that within twenty years an authorized system of sherthand would be made a compulsory every day study in the public schools, because of its great uility both in business and as a mental drill."

The phrase " mental drill" is, we think, the last that can be applied to short-hand writing. The object of all drill (for the phrase is borrowed from the army) is to develop a arariefy of powers and the ability to pass rapidly from one to the other. To expect shorthand writian to suffice for a thorough "mental drill," would be amalogous to expecting a well-drilled regiment to result from the continual exercise of a single movement.

It is neediess, however, to dwell upon this minor point of Mr. Johnson's argument ; it forms only a part of the general opinion that what is called a "practical education" contains in itself all that is necessary to train the mind. We have ere this contended to the conttary, but it is a subject upon which it would be difticult to say too much. For, if the opinion is a correct one, our present system of education must necessarily be a bad one; forall who are being educated by the present system will shortly be called upon to put what they bave learned and gained to "practical" use.

The adjective "practical" need never be affixed to the word "education." All education is practical-is for practical purposes; and to characterize any one system of education as practical, with the concealed idea that all other species are useless, is folly. The utmost that can be said of one system as opposed to another is that it will gain its end sooner or better than that other. The impurtant question to be asked about any sjstem of education
is: How does it compare witl others in its power of developing the mind?

But the prevalent opinion as regards what is termed a "practical education" is that if boys at school are early taught such things as short-hand, book-keeping, bauking, and sach other subjects as are used in "business," they will make better clerks or accountants than if thes devoted their time to I.atin, Greck, History, Geography, English Literature, etc., etc.

This oft-repeated assertion we traverse without quaiification. The study of shorthand, book-keeping, banking, etc., should bear the same relation to the study of l.atin, Cireck, History, Geography, etc., as these bear to the study of the thece R's. We advance by steps. The rudiments must first be learned. If would $b=$ as foolish to undertake the stude of Medicine or Surgery without first learning Chemistry; Physiology, and Anatomy, as it would be to take up banking before learning the many subjects which are included in bank. ing. The subaltern, when he first gets his commission, does not enter upon the study of strategy and fortification ; he learns the "goose-step" and the "Manual Evercise."
Secondly, as to the mental training which a "practical education" supplies. It is impossible to obtain the reguisite exercise of the powers of the mind unless those powers are gradually cuercised exercised step by step, by overcoming obstacles in turn, grasping first this fact, then the fact next to it-the fact which is linked to it. Any other system results in superficiality; is an attempt to build a superstructure with no foundation. And it is this which a "practical edscation" attempts to do. It leaves outside its sphere the grcundwork of true cducation, and endeavours to teach only such things as are of "practical value"; forgetting meanwhite that to be able to make these things of "practical value," it is necessary to have studied .he rudiments upon which these things are founded.

It would be as wise, we think, to urge that those who intend to enter the legal profession should substitute for the ordinary school carriculum such subjecte as Common Law, Real Property, Contracts, etc. ; or that those who are about to make Medicine their vocation should substitute, let us say, Materia Medica, or: athological Histology, or that thase intending to enter huly orders should subsunte Homitetics, or Exegesis, or Apologetics.

## SCAPEGRACES

livery school-perhaps every class has its "bad boys," its scapegraces. They are the torment of the master or the mistress. They require so much attention on the part of the teacher that the whole class is kept back. A misunderstanding (tc $:: 2$ a mild term) between teacher and "had hoy" is always the signal for the rest of the class to prick up its ears. It aff..ds them infinite amusement, as well as buing a delightful episode to break the tedious monoton; of a dry lesson. These conflicts are looked forward to. Not seldom they are purposely brought on. But they are the bine of the master. Through the "bad bny" order is not preserved; dignity often suffers (N.B., by the fault of the teacher usuaily); time is lost; often temper is lost (N.B., again by the fault of the teacher a/aigys); and the whole class thoroughly upset-attention diverted, quiet at an end, the routine (a most important i.gredient of order and progress) dis-turbed.-The baleful influence of the scapegrace is too well known to need : further elaboration.

How is this baleful influence to be counteracted? Thus:-

Ir̈rst, never let à boy obtain a character for badness. He will keep it with pleasure, and will take for his notto probably, " I may is well be killed for a shecp as a lamb."

Second, show him constantly you expect great things of him. These expectations will very often be fulfilled; the scapegraces generally turn out splendid men.

Third, believe he is reclamable. If properly treated he undoubtedly is.

Fourth, see that you treat him properly. He needs a firm treatment. He sure however, that your firmness is never the result of either fear or spite-either of these will ruin your influence over him. Kather be lenient to a degrec than afraid or spiteful.

## OUR E.ICH.HNGES.

Littcll's lioing .lgr. The numbers of Tinc hiaing Alje for September iSth and 2 gith contain, "The Voice of Memnon," Ediniurgh; "The Flight to Varennes," and "The Growth of the English Xovel," Quartcrly; "Moss from a Rolling Stone," Shardivosal ; "A Drive Through the Blue Wicklow Mountains," Iinsliy's; "Some Unconscious Confessions of De Quincey," Gentle. man's; "Orchards," Spectator ; "The Baku and the Egypuian l'cirolcum Industry," Eronomist, with insta'ments of "The Mesmerist," ly the late Iran Turgenieff, " Prince Curesco's Ducl," and "Ballaizai Durg," and poctry.


1. Arbivtros \& Co, have ready in the futer. national Scientofi series a volume on "Mierobes, Ferments and Moukla," l:j 1:. I. Trouessart.

Usiber the auspices of the liogal Commission an illastrated worli will shorly le pubtished on the Coionial and Indian livhibition, which is intended to form a record of some of the leading features of the different sections of the lixhibition.

Pkor: Wh. Il. Paries, of the Universtry of Michigan, has written a work ensitled "Contrilutions to the Science of Eilucation," which will be published immediately by Harper \& liros, and (in Great Britain) lys llackic \& Son, of Glasgow. The next issue in the new Classical Series which Harper if Bros. ate issu .h, under the supervisien of I'rof. Drisler, of Columbia, will be the last nine books of the Itiad, edited by l'rofessot Tyler, of Amherst.

Tur. leading feature of 7he Century for 1 SS6.7 will Le, we are told, "The Authorized life of Lincoln," hy his confidential sectetaries, Juhn George Niculay (now Marshal of the Supteme Court of the United States) and Col. Jolin Ilay (hately Assistant Secretary of State of the United States.) This work, which was hegun with the sanction and assistance of l'resident lincoln lumself, and has been continued under the authority of the sole survivor of the Presilent's imnediate family, has been in active preparation during the past siateen jears.
As interesting addition to the literature, for the distalution of which the Colonial lixhilition offers such special faciluties, consists of a neatly got up pamphlet containing the specehes delivered by the Narguis of Jansdowne at Winniper and Vistoria during his recent trip to the North-West. loond Lansdowne's reputation as an effective and weighty sjealice whose opmions are entitled to the utmost consideration should obtain for this little brochure a wide circulation and a very careful perusal. The speeches are supplemented by one or two brief extracts from the Marguis of Lonne's and Lord Dufferin's adderesses as well as by an epitome of facts concerning the Canadian Pacific Lailway and the recent progress of the Iominion.
Henky Nokman calbies to The Evenins Jost: " Mr. A. V. Dices, l'rofessor of Law at Oxfori, has written a wrok called "The English Case Against Home linle," which will be published by Murray immediately. Sir James Kamsay has nearly completed a great work on the listory of lingland, from Cossar's invasion to the accession of the llouse of Tudor. Sir lFrederick Polioch:, translator of the "Divina Commedia," contemplates writing his recollections. lie has just retired from the post of (Wueen's Remembrancer, also from that of Master of the Supreme Court Judica. turc. Mr. Harry Quileter is writing a history of the pre-laphaelite movement, which will comprise the series by IIolman Ilunt, recently published in The Contemporary ficuicav. The anticle on Shakespeare in the new "Encyclopredia Britannica" will loe by Professor Thomas Spencer Beynes (the editor), an authority on the sulject."

Harfer © Bros, have publisted this wret the lung-expected volume on " Mary and Nizatha, the Mother and the Wife of Geurge Washington," by Benson I. Lossing. It is a delightful collection of personal memorials of those nearest to Washing.
ton, gathered from contemporancous letters and memoramia, from jourmals and minutes of conver sation, frem the recollections of those who were relatives ant connections or fitiends of the lamiaj, from publications of the times and fo m trustworligy ladition. A complete and accurate sketch of the lives of the menther and wife of Wishington, it also reveals more filly than it has ever been revealed lefore the social and private life of Washington himself. Other books just ready are: "Contriluetions to the Science of liducation," by Prof. Wim. 1I. I'ayne, a timely book, beating on aclive controversess of to-day and casting new light upon them: Homer's Iliad, looks ari. axiv., with notes by Prof. W. S. Tyler, which forms a new volume in their Nece Chassical Serics: Voyages of a Merchane Navigator of the Days that are l'ast," compled from the juurnals of the late lichard J. Cleveland isy If. W. S. Cleveland: and " Into Unknown Seas, or, the Cruise of Two Saitor Hoys," a new volume in the Sarpers' Young Jico. fic's Series, by David Ker.
M.lemitias $\mathbb{S C O} \mathrm{C}^{\circ}$ : Announcements for the Fall I'ublishing Season include the "Letters and Keminiscences of Thomas Carlyle," edited by I'rof. Charies Eliot Norton, of llarvard Universty: a new volume of "Historical Lectures," by l'rof. Lidward A. Freman, roviewing the "Chief l'ciods of liuropean Jistury :" and a new and cheaper edtion, in fuur volumes, 12 mo., of the late I. Lanfrey's greai " llistory of Napolcon I." Among their illustrated works may be mentioned an i:'aportant look on "Grecnland," by Baron Von Nordenskiold ; " Dajs with Sir Kuger De Coverles." with characterictic illustrations by Ilugh Tisomson; and an Eilition de Luxe printed on fine paper, in ene volume, of Washington 1 r . ving's "Old Christmas," and " Bracebrthge Iall," the illustrations of which were a lalmur of love of the late landolph Caldecott. To their list of novels they will add Mr. Henry James' new story "Casamassima," "Sir l'ercival," by J. Henry Short. honse, author of " John Inglesant;" and a new story liy Chariotte M. Vonge, entitled, "A Modern Telenachus." Fit jounger readers, they will have a new volume catitled, " Four Winis Farm," from the pen of that must delightful of writers for young people, Mrs. Molesworth, to which Mr. Walter Crane will as usual furnish the illustrations.
Tite second edition of the official catalogue of the Canatian Scetion of the Colonial Exhilition has just been issued from the press, and is well entitled to a word of favourable recognition. It has been carefully revised and its contents ampli. tied, so that in all, now comprises some 412 pages. Among new features which have been introduced with advantage may be mentioned a list of contc .ts, a list of classes with summary of cahibits therein, and the addition of particulars by which the position of exhibits in the vartus portions of the Canadian Courts can be readily dis. covered. To the tersely written introduction, is. which an account is given of the general features and resources of the Dominion, the following interesting figures have been added: "In the Exhibition of 185 I , British North America occupied alrout 3,586 square feet of space. At the l'ars Ciniversal Exinbition of $15 \mathbf{5 5}$, she Esitish Nurth American Prownces occupied 3,153 square feet of space British North America voss represented in
the lixhilution of $1 \$ 02$ ly $32 S$ exhibitors, the space occupied by them being not quite 5,000 square feet. In the l'aziv Conisersal lixhibinion of iSG\%, Comada was represented by 610 exhibitors. On the occasion of the Philadelphir. Centennial lixhibition of $18 ; 0$, Canada received nearl; 50,000 square feet of space, and her enhibitors numbered 1,056. At the l'aris U'niversal Ex bilition of $1 \$ 78$, the Dominion had 524 exhibiturs. Canada was reprecented at the Antwerp Exhibition of $1 \mathrm{SS}_{5}$ by about 172 ehibitors, and had :ibout 10,000 souare feet of space. At the present Exhibition the Dominion has more than 1,700 eahibitors, and occupies nearly 100,000 square feet of space." No further comment upon these stati-ics is called for bejond the remark by which they are introduced that " the display made by Canada at the present Eishibution shows the extraordinary progress achieved by the Dominion of late years."
" IUST outside of Iondon they are at work on the liggest look in the world," said a New York 1 . Jisher who has recently returned from a tri? to ling.' ind. "It will be mure than four times as large as W'elsiter's Dictionay; and will contain something like Sooo pages. It is to be the ideal dictiunar; wh the linglish language, and will stuperscole all pre-existiog $=$.thurities. It has long been realized by schulars that the English language is deficient in this respect. The French have two dictionaries, that of M. Littriand of the Academy, that are far superior to our own. The Wiinterbrei, of the German bro:hers Grimm is still more exhaustre and authoriative. Even the Jortuguese Gictionary, Vieira, decidedly surpasses anything in English. Hut the British l'hilological Socicty proposes to till this yawning gap in our relerence books. They hold that a dictionary should be an inventory of the language, and that its doors should be opened to all words, food, lad and indifferent. This new work will not be confined to definitions and cross-references. The life history of each word will be fuily given, with a quotation from some stardard writer, showing its shades of meaning and the variations in its usage from one generation to another. The work was originally started in $1 \$ 69$, but the death of elitors, ninancial embarrassments, and changes in the fi, oe have interrupted its progress. It is now hupert that the book may be pushed to its completion without unnecessary delay. The amount of research atd reading yet to be accomplished is very great, and there are on hand some $3,00,000$ or $4,000,000$ slips which require patient classification. The next century will probably open before the dietionary can be places in complete form upon the library shelves. Jut the advance s.aects devoted to the first letters of the alphabet, which have already been issued, have met with the most favourable comment from scholars, and give promise that the English language is to have, at least, a lexicography worthy of its literature."

## BOORS RECEIVED.

Catalogue of hooks fullished by D. C. Heath E Co. Also Annornucment of the books in Prefaration.
Catalosue of Books pubishted by Macmullan \& Co. Including (except Bibles) the publications of the Unitersitics of Oxford and Cambridge. New York: Macmillan \& Co. 1886.

## Methods and Illustrations

## ROTE HORK AND CORRECT TRAINJNG

IN !ndilts OF ATIENTION ASD PROMITSESS.
Wenstrek says that rote signifies "a frequent repetition of forms of speech without reference to the meaning." I would amplify this derinition sufficiently to have it include all of ahat work in our schools that is done by a whispered repetition, called studj; and considered ferparation of lessons, and finally culminates in an audible repetition, at recitation time, of the sounds that have been memorized.

Without wishing to take a pessimistic view of the situation, or to enroll myself with the numerous and unreasonable critics of the public schoo's, 1 still wish to say that there is far too much of rote work done in even the best of our schools.
I would class as ro:e work, also, that rehearsing of sounds in which the pupil associates certain sounds with certain printed or writen characters, and, ignorant of the fact that those characters are symbols of ideas, vainly supposes that the aforementioned rehearsal of sounds is reading; or, in plain Angio-Saxon, 1 would call much of the reading that is done in the primary and grammar grades roie work. In geography, that pupil who fails in recitation because he is thrown of the track by forgeting two or three words of the text is doing rote work; in arithmetic, those pupils who explain problem after prodlem according to a model explaration given by the book or theis teacher are doing rote wark-not quite in objectionable or so so great an extent, perhaps, as has been done in the geography or reading, but s:ill it is ro:e work, and more originality in the form oi explenation, althnugh nut likely to make so fine 2 shoxing before visitors and at examination time, would be of more value in developing the ecesonina powers of the members of the class. It would not be at zill dif. ficult to find rote work in the oiher branches of the common-school course: bu: the three already mentioned-reading, ;rography and arith:netic-fumish sumiticient maicriai.
Sicx, is there any cducational value or power in this rote work? If il:ere is, how much is there? It may be claimed that it strengthens the memors: If you beliste that it does, ask the pupil who reads saumds and prit iticas to re-read the paragragh that he read $a$ week ago, and see if he remembers anything connected with it well crough to read is beiter noor than he did ihen. Ask the gisl who glibly expiained a problem according to ite prescribed model lass week, but ians sot used that model since, in ex. glain a nex probicm, or even one in seriex, that may befited so the giten model, and
see if it is done as readily as it was then. If these two experiments are satislactory; I ask you, as my last resort, to call out the class in geouraphy; and test those who usually employ the worde of the text-books in their recitations, and see how well they will render a lesson that they have not louked at for a week. Permit me to remark here, parenthetically, that 1 am not inveighing against memorizing in all cases-against memorizing verbatim-but against repicatin:if farms of spicech withoul refercmice to their meaning.

Let us now consider correct araining in habits of attention and promptness. To train, according to Webster, is, "To teach and form by practice; to exercise ; to discipline." Col. Darker says, " Jrimary education consists in the development of the power of attention." Attention may be defined 25 ar. intense consciousness by which every impression mate on an organ of sense is brought directly before the mind. Upon this ability to give attention depends the power to remember; hence, attention is the foundation upon which the whole supers:ructure of school education must rest. Noattention, no impression upon the mind; no remembrance or recollection, no knowledge. A late writer on pswithology has said that it is probable that all impressions on the mind are indelible, and may be recalled cither by force of will or by association of ideas. If this theory be true, many school-cinildren have either very weak wills or most unsocial ideas; for we all know that it is simply impossible, in many cases, 10 induce a recollection of impressions that we have striven zeaiowsly 10 make permanent.
As illustrations of inatiention lei me refer you to the members of the spelling class, who must have words pronounced several times before they can write them; or to the pupils who copy woik from the board, and omit wurds cr introduce original and wonderful spelling; or to those oticer pupils who so frequentiy misunderstard the teacher's commands, and sit down when they should :emair standing, or remain standing when they are told io sit; or, lastiy; to the scache.'s pests who "forgot" to bring a book, 2 pencil, some paper for exam:nation, or to study the lesson assigned. These pupils are estally called "demb"; bat in many cases the only trouble lies in the fact that they do not zive thair undirided alter. sion to what ties teacher telis them.
fiow shall this trouble be remedied? This question is 25 rifitcela 10 answer as it is casy io ash. Atention cerainly is not secured by cormanding it or by begring for it. The anecdote of the judge who astonisted his cours-cries by telling him shat he, with his continual "Silence ! silence !" was the noisiest man in the court, is applicable here. The seacher who frequently calls "Attention! atiention !" often produces more disturbance
and does more so destroy attention than any other person in the school. I might say to the teachers, Be interesting and you will secure attention; but then the question would be, How shall we be interesting? You can't make the work interesting to others if you are not interested in it. If you are teach. ing because you think than you can get more dollars for less work in that way than in any other, there is little hope of your ever making the notk interesting to your pupits. Do not consider me as saying that only those who are willing to teach for nuthing should be put in charge of children. 1 mean to say that, if your heart and conscience are not in your work, you ought not to be in the schoolroom. Teaching, net school-keeping, is hard work; I suspect the sincerity of the mar. Who tells me that he would do the work for mere love of is; and despise the motives of that other one who, hawng obtained 2 situation, gives the least possible amount of labour for the stipulated salary. Get as big a salary as you can, and always do the best work that you can.
In my betief, enthusiasm is the great requisite for gaining and holding attention, but it must be tempered with common sense. Sext to this in importance is the ability to guestion well. By his skill in questioning Socrates laid the fourdation of a fame that endured for twenty-three centuries. Thorough knowledge of the subject in hand is, certainly, anether essential requisite. Armed with these three-knowledge of the subject, skill in questioning, ard enthusiasm-no teacher should fail.
Let us now consider, brietly, training in habits of promptness. Firequently pupils are found whose normal mental gait secms to be identical with that of " molasses in winter." If directed to copy a paragraph of the reading lesson on their slates, the first lines written are nearly erased by the time the work is finished; if called upun to wite 2 set of numbers from cictation, the rest of the class must wait for them, or they $\pi$ - be cacused with about half of the nun.sers written; if detected in some disorder and told to approach the desk, they move at a snail's pace. Some of this exasperating s!owness of mind and movement may bsdue so temperamen:- But the fact that some of ine slow-coaches of the school-room are zmong the livelies: children on the playground; that the papils of some rooms exhibit much greater romptituce than those of other rooms; and that particular papils vary greatly in the degree of promptitecie exhibited when under the char ve of din̄erent ecachers, fernishes good ground for saying tilat promptness is largely a matter of sraining.

Now, are we not, cither consciously or anconsciously, devoing a great deal of energy to rote-mork that will be crowded from
the pupils' minds by the next succeeding task, and forgetting that a prompt and attentive boy or girl will be of more use to himself or to herself, and to the world, than one whose mind has been used as a sieve throughout a whole grammar or high-school course? I do not affirm, nor do I believe, that we are doing quite so badly as to make sieves of the children's minds; but in our eagerness to store them with facts, do we not often lose sight of real training, and look upon the attention of a class as an evidence that its members are in a favourabic condition to take on board a mental load? Do we not forget that attention is not only a means $t 0$ an end, but an end of itself of the very highest character:-Nizu Eituland Journal of Eductation.

## THE CULTIJATION OF MEM. ORY.

From 2 paper on "The Cultivation of Memory," by Principal A. C. Ferrin, Keeseville:

The following facts must be considered in the discussion of the cultivation of memory :

1. The habits of American life are not conducive to 2 proper cultivation of the memory:
=. Litule aid can no:r be expected from the religious training of our school children.
2. The character of much of the lisera:ure read by schonl pupiis is disastrous in its effects upon the memory:

+ Cersain physical causes exist which are equally injurious.

5. New educational methods make no special provision for the training of this faculay, but rather point in the direction of disuse and misuse.

In tiex of these facts, what are the prob. lems that confront us?

1. How can these outside infiuences be ovescome?

- What changes can be introduced in:o our schools to nect the deficiency?

The solution of the first problem is the more difficult beczuse it is largely bejond the reach of the teachers. Its solution can only be indirectly attained through the solution of the second.

The answer to the second problem is also difficult, shough within the reach of the teacher, but in attempting its solation a causion is necessary.
Imporant points have been gained in elucational reform dering the last few years. These poinss must not be relinquished. A recogrition, and, in $x$ defice, a realization of theimportance ofectain herciofore reglected factors in the educational problem has been secured, but, as we claim, at the expense of another equally important factor. What has been gaired must be kept, bet, at the same time, what has been sacrificed must be restored.

If we have learned to teach geography in 2 way to awaken an interest in the study, if we have learned to illuminate the dry facts of history, we have gained important points. If in teaching the languages, we have succeeded in removing somewhat the antipathy against them, by reguiring a minimum of technical grammar, another point has been eained. Hut if these gains have been secured by a loss in other directions, the loss must be made good. The memory must not be permitted to suffer in the prosperity of the other faculties, nor indeed the other faculties . 2 a reinstatement of the memory:

The question then is, Howe and wiocre shall we provide for the necessaiy cultivation of the memory?
We can answer the question only by making a few suggestions.

1. A certain time might be set apart each wock, or aven day, for a general exercise in memory-training. In these exercises a limited time might be given for memorizing a short poem or parts of longer ones, or even certain parts of text-books could be assigned. In this plan an exce!lent drill would be cibtained also in close application.
2. A poem or passage of the best prose lite:ature might be assigned once a week for the pupils to commit at leisure, and a time set for their recitation, rot from the platiorm, but from :inciz seats, cither singly or in concert, or, what might bestill better, they could be required to write them from memory, and then read, every verbal mistake being corrected by the other pupils or the teacier.
3. The work could be coane ire classes. The English liecrature class would fernish an ex. celient opportunity: In the Latin elasses, notable passages from Cousar's commensaries, parts of Cicero's orations, and pas. sages from the -i:neid could be required. In history; brief sketches of historical characzers could be writien and then commitued, or in geography brief descriptions of places could be recated in the same way.
We admit that there may be many objec:ions to carrying out these suggestions. We have made use of them to a limited extent, but rot to an extent to ensure their practicability.

## INDOLENCE.

Ar :he St. John, N. 33., Teachers' Institete Mr. Mekenna read 2 paper on the forcgoing subjec: from which we take the following $=$

As regards the kord 'incolent,' he wistien it to be understood only so far as it pertained so school duties, or the prepization of home lessons, for is is generally taken in 2 much wider sense. The sirrt thing to be done, the speaker said, was 20 try to find oat she cause of such indolence, for children were not generally indolent by rature In his opinion it would be incariably found to proceed Srom one or oiter of the following
causes : The teacher himself, the parents, or a sluggish, vacillating disposition of the pupil. Teachers gave cause for indolence to their pupils as regards home lessons in assigning a certain amount of work to be done by the pupil whilst at home, as a preparation for next day's work in school, and, through indifference or otherwise, neglected to take the necessary means to find out whether such work had been satisfactorily done or not. This Mr. Mchennaassigned asoneof the most frusful causes of non-preparation of home lessons. The hest and only means to deal with such indolence as this, was to ascertain by a careful, systematic examination whether the assigned or prescribed work had been prepared or not, and if not to take the neces. sary means to enforce its preparation. In regard to indolence in school work, the seacher, he said, often caused is by an injudicious mode of instruction or questioning ; in makirg himself a mere talking machine; or in asking questions which required for an answer neither thought nor attention Parents foster this indolence in their children by keeping them runaing erraads and otherwise employed when they should the preparing their home lesson; also by a mistaken idea of kindness in writing for them excuses to the teacher upon the slightest pre:ext or whenever the children desired them to do so. As a remedy for this Mr. Mckenna assigned home visitation by the teacher. As to that indolence which proceeded dircctly from the pupils indisposition to study from whaterer catse arising, the teacher, he said, should ever manifest the greatest vigilance and interest in his work, and should never fail to show, in a forcible manner, that he notices such lack of preparation or attention to study by the pupil with displeasure, and should ary expedient after expedient, but always with kindness, firmness and prudence.

## THIYGS TO REMFEMSER.

1. Let nothing prevent yous from thorcughly preparing erery leison-ro matier万ora simple-that you are to give next dayNever go into the school-rsom withour knowing exactly, cirs to cictails, what you are so do.
2. . io matier what happens, be stire to keep your zemper.
3. Don't omit to risit all the lamilies who send children to your school. Mlake friendly calls, don': wai: for shem-and show yourselfreallyinterested in them and their children.

+ If any troable occurs with $2: 9$ child, or there is danger of any; bes: 50 alid see the parents and get their co-operation.

5. Don's be in a herry aboat punishing, if secessary: Jiocuifirg to shink it over meres does any harm.
6. He sure everything abuut your dress, desk, and school-room is always in perfect urder.
7. Try to make the room altractive, so that the children will find it pleasant.
S. Remember always that it is the best interest of the childicin and schoal-not your own, that you are to work for.
8. Be sure that you carry out exactly alt the directions you give. Think suell bajoue giaing them : but then, carry them out.
to You must be entirely and wholly and always just. If not, you will not command respect-and not to have that, meams failure.
9. He eiery careful in your dealings with other teachers in the town. Never give them occasion to think that you set yourself above them. Be always pleasant and friendly-you can learn from them. If you are working for the sithools, there can be no jealousy-make welcome in your rooms. Seck to l:now them. You can both sive and get help, if you work in she righ: spiais
10. 1)ress parfoctly-simphy: Cellaloid collars and cufís will save washing, and can be always nea: and clean. Diess sliould be plain, without much tramming. If it were not for washing, I would say, wear white aprons in school.
11. For arithmeitic classes. Do all the examples yourself at home belore the time; then you will know what you are about, and can tell where the error is. Kecp ahead of your class.
12. Talk beer your difinculties :ogether.
13. Don't take any part in the village gossij. Don's allow yourself is tall: abous aty vac in the cillage, unless you have something good to say:
14. Try and make the children falise to each other in school.
15. Try the plan of having 2 scinool housekeeper sor each day: Try and ge: the children to feel interested themselies in kecping crerything neat and in order.
 - -if you doد':.
16. If you have made a false statement about anyathing in a iesson-donit be afraid to acknowiedge it.
sa. Correct all crrors in linghish speaking


## CO.MPOSITIOA:

Cos the folloning quextions and uric
 Jamia, ithe jomaf, or some otherdonestic 2nïmal. 3. What is 2 domestic animal? Is ithe - one?
$=$ I/ so, in xhat coantries? Wherctias ut becn found wild, or where is it now found wild?
3. Of what coentry is iz a fative?
i. \#f whom domes:icath?
5. Ifox or by witat people introcecedi zs:n nifer compries?
6. While it is alive of what use is it to man?
7. Of what use afterits death?
s. What could take the place of the animal if it were exterminated?
g. Give any facts you can to illustrate its inteligence, attection for man, or its tracta. bility. -The Trachers' Aid.

## THE FIRST DA Y.

Tus: ints: day ofschool, with a new teacher is the most important day of the school year. Upon the work of no other day does so much depend. Upon no other day do children listen so closely to what the teacher has to say. Upon no other day is every word and every movement of the teacher so carefully noted and weithed. A good impression made upon the minds of the children the first morning and the first day will be a great helf, for days and months to come. A bad :mpression made ai the opsning of school is very, :irry hard to oretcome. This being true the great importance ol studying the first day's work is apparent.
The following things are essential to any successful opeaing of 2 school by 2 new teazher.

1. The building should be in govd order and comfortable.
2. The teacher should $l$ now the classification of the sehool, including the point in the books which each class had reacked.
3. The seacher should have definitely planned a sting opening exercise, and all the s:eps preliminary to organization.
4. As no idie school can long be kept in arod order the whole ereergy of the teacher should be dirccied soward giving each one sminffhinge fo do, as suon as possible.
5. Allow noming in the way of disorder on the first day that is not to be permitied on 2 ficr dajs.
A good berinning is inalf athe batic.


The most practical education is to pala chila forth in:o the world with all his poxers tamenoniods!y deveiaped, his observaion accic, and his jedzement quick and accuraic. The mosi important quession with excry zeacher is nol how he can make a chitd sec mare clearly inin arithmetic. Eat io teajit him how he can best employ it and sinaiiar sucdics as 2 सrounadmork for the niahest possible development.- jorofossmr R. Sicratisur.

1utsconia lias beca obliserateai froma the rapp of South Amecrica. To Chili bas been ass:gned all :ine western siope of the Corcall. Ieras 20 the souitern exire:nity of tiac Coasinen. The temaince becomes the properiy ofite Argentiac Confederation. Tierfa del Fergo is parect equalizy xinice Chila rakes al ihe oitee isiands

## Educational Intelligence.

## THE MITHODIST GENERAL SEC-

 RETAK子 OF EJUCATION.In cteating the new office of lieneral Secretary of Eilucation, :ays the lfarl, the Methodist Conference has taken a most important s:cj, and in the appointment of the lier. Dr. lous as the first incumient of that office it tas shown that it is deeply sensilule of that fact. Dr. Pouts ranks among the very hirst of the gualp: orators of the Meihodis: Church in Canarla or clsenhere. His power as a preacher of the Gorpel has lung licen recognized., asd the immense audiences which always llock to hear him are sufticient proof of the popularity of his minisirations. To take stech a man from the active work of the ministry is a step ubich is warian:ed only $\mathrm{b}_{\mathrm{j}}$ the most pressing need in another dirce:ion. That sech a need exisis is the unanimoas ofinion of the Confercr.ce.

The want of a ;eneral supritniendem of educasional matters fas jong lrea folt ing the Mc:hodis? Cherch. inat the chicf ulstacle in the way of stech an alpmintment has alwzes lreen the expense. It is feli that the tine fas come then sech $a$ contintcration can no loager ie allowed to preval. $\lambda_{;}$art from the growing work of the lidecat:onal society, the recent aceion of the Conference uith resard io victoria Collese makes it alsolately necescary itat the interests of the Chesch in these matters shoeld tre entrested to the care of an oficer specially appaia'cd fos the parpose-a $: 7 a n$ of cnstgy and sioneg abilinics, and one, moscorct, porsessed of syccial dुualifications for the saik. Such a nunn,
 he tias been offerch and thas accepied ine fancs. The grand serimonial given try Ds. Doangla: so his mental sirengith. his persomal mangeticn, and his worth as $=$ man ami a Christian minister, was cnionsen lry the whole Assembly, the anited wice wifhich was in faroce of the appoindement. The Methodist Chesch in Candia is trowalouat io make
 difitcalites ia its wat ase great. It is the general frelimas shat it any man can graytic with olvesce dif.
 late lnehthita בal the Clutch os the ajriwigianent.

##  E.1: 1 JRIT


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 wosks sclation to Camada. a fcaiexc manimg in mact of the oiber Cobanial Cocrix Nicyefred io

 ithe majs cxhiluick, which, m the wiroke, aic ters poms. These is asc prest relich majo of tieeope


 Oiterwise :
highest eredit on the colong: There is much historical ami sta:itical matter showing the progress and presert condition of education: cahilhiss illustrative of schom! methouls and organization; a fair shour ai photoriraphs of schuols, calleses, cic.: -choxil furniture and firtinger some of them hinghly ingenious : tent-heriksof all hinds: apparatusuced in teaching anatomy and physioloyg, phy-ics. chemistry, and other sulijects: with alsundant specinens of pupils work in all departments. 'Then we have exhibits for mechanics' instituter, att schools, inssitutes for deaf, dumb and himel. agricultural aral other sprecial collerges, universisies. anit the higher itsititutions All the are showin and are exhilited ly she Oatario (iovernment ; but oller grovinees have also sent exhilisis.

GEO. M. Konisions has leen re-cngaged as head master of Tontenham l'ublic school for $1 \mathrm{SS}_{8}$.
 of \$jo.
The: Turonio Scirmol loard intent to ofy nother swo) kincicrgasteas in conncxion with the fallic schook: : these will make five kiadergantens tinder the cuntrol of the lroand.

Wiss Aelite Geeznwoob, 13. Se, of Cohourg, has lieen angaged as teacher for the l'cietho:o' Collegiate laitioute, to sill the racancy ciaied lry the retigna:i m of Mis; Kabinion.

Ture sexchers of Wicsiesn Manitola held a cunrention in lisamion on the Eilh and zjit of this monih. Kex. Mr. Wellwoul, Inupector ofsthools, hait charfe o! scisitar up a irossamme for the aceasinas.
ifabifax las :wo gritzic himictgaticas, one
 1 SSo be Mise Jexcic S. Campincl!, fradazic of the
 a himistgarica has been openci. contucted ly $a$ fradraic from Miss Camp!rell's szaining chacs, on fas mi:h success.

AT ihe N.S. Teatheri Armaciaiion ive. Hizll
 scicate, daring the holiday scasom. A nemike of


 सseat profi. The grojers will le grat inso the bands of a numaitice.
 Sit. Thatas has zeccived motice frest ilse llata
 Octiver sih. bac lera set ziait as "Commence-


 parimeat and man by the siadeass of the iasitate a: the reccat cxamizasinas will sake pilace.

Ws leara frosa ithe lotena corserpoodent of the flaitr difres tha: ithe sctronitrasicts of Ansiria recraily beld $a$ mecoing ${ }^{\circ \prime}$ with a risw so prapase


 croogh io jevify lke perizion" We shoold be fiad to lcara from some foce Aesitian readers ibe
 sciention of the jrexpe taw, and the refreiations and praishmenis which repisce the exc of cniforal praishmen:-

Thesevenues of the New Eruniwick Unitersisy ate enizely tow small to provide a saff of terchers such as a state university reçuires. The frovincial grants are reguaxly paid, but no money comes in from private sources. The rexuit is that the only Guternment unirersity in the Maritime f's oinces has an income not much lar.er, a ataff numbering time one more than the fuxorest of its fous rivals. Dis colltrse makios a lecter shuwing: for the money it costs than dues the University of New Iirunsnick, an! it cunth not be enprected that gicat at. vance can le made without greater autlay. l'eshajus l'resilient larison maj yet le able to :ap the spring of privase lenevolence. - St. /ohn, A.SB., Sum.

TuE Reat Cobanty Teachers' Ins:itute was held on the gith and 10ih of Sipiemicer. in kichitucio. New Hiansuick. Thinty-six teachers were present. The suljects tahen up were lis:ory, hy Mr. Con:ce, a paper on the Grammar School. Dy S. S. Ifrriton, a lesson on I.angazafe. by Miss Sadic Iluachinsun, Mlaneal Wiork in Our Sichools. $\ln$ the Insitute gencrally, Dlow to secure (iood Spciling, bly $^{\text {y }}$ John fillic, and a leswan on Arith. matic, in. T. E: Coleman. The proceedinas sencrally were of a very inicresting characier, th: prestace of the Chicf Superiatendent acting no dizald as au inspiration. A palule mecting was held which was adidreseal hy the Chit (Suprrin:endeat, Ket. Mr. Mamilina, Messm, 1Intchinson anit Mclnerney, Scaztor l'orticr and the chairman, J. D. E'hinney: Therc was 2 very latioc aitend. ance, and the meeting was a iceided sucecse.

The W'csumoreland Come:y (Now lisanswich) Tencincss Inxitutc anc: in Mcriorial 1:allat Sack. rille on Thmasiay, Spl. 16. at 10 atm. l'sob
 r.prots and elecion of reficcts: second sessiun. "- Schowl Appiratac," by Gen. Oalian: "The I's smanal Initacrece of she Teacher," Ing Miss Alice





 linaley llall an Tharsidy ctanian at winich ad-

 Ifixcs wcze fircot in dryas:meats and schoois


 200s:

 mose inan conelimiicl branch of sticace, and is ic
 mon of whom a: can be cxpectal to sake 2 a inicrest in =ay sise
 cose. ihe j'scinles: of the lizitixh Anopiation is
 to treat hiss ifrcoc in a manact intciljeilnc so mata
 Gation of shese ditixnit comationss Sir Wilizaz
 shen cominerison with itre ctiosis of his mosi dis-
 Ems

## Table Talk.

I Hive no segpect for that selfolwasting charity Which neglects all oljects of commisetation near and aroundit, int goes to the end of the carth in search of misery for the purgose of talking: alwont it.-6. M/asen.

Sil system of public aluca:ion is worthy of the name, unless it cieates a great ciducational ladder, with oase cod in the gatier, and the other in the university:-Prof. Butalcy.

Sistit.taneoustiv uith the death in l'azis of the soexd man Guilicrs, the lad woman Cora I'carl goes to her last accuant. The amount of harm such a person could do in thirsy years is hardly conccivable. She was so land that luckily she thus aided in disgusting France with the fraudulent Emperor Diapoleon Ill., uhose favourite she had been. It is the fate of such creatures to live in ulucuring during the latter jrations of their lives, and then to endure an aprotheosis in questionabic romance. So it will ice wish this Finglish womar., Em:neline Cro:ch.-

## A DFCOKATIVE MAIDEN.

* Ou, where are yoa gorng, niy dear hull mand?
- Te the school o fine asts, if you please," she said.
"To lcam how to grint on china and glass,
On velver anil sann, silk, linen and brass:
On roma, zin and cantas, on matisiag and zinc,
Slzte, marblet and tilec, an. 1 !eather, 1 think.
I hare alteady jainici a sercen and three placuges, A uinote set of dishes and 8 wo listle racks,
A siand for umbrallas-
A lorely cone, ion.
lizih a groand of sienaz
Ara lands of lighs blec.
And cai sails z duen. so siraight and crect,
Grozing ap all ar:and, with arisitic cficct.
Threc ate oihet ihisax, 100, which I canit s:opito :cll.
Hat Ithink fur six lexcoas I've doac vea; well.'

Soses sevclations בse saxde, says $2 \pi$ Engish proper, which shrow $=$ diagrecalise light oa the haki:s of the lasy bec, whose thight cxample has luen the :heme of so many moozal di-enarses. The lire is freand to be neither more nat lexs than a duxarigh: drankaza, when he gets she chance. procterina the caty delights of cordials and vpiri:s to the inilsome flinhis o'ct senay smaris and homect.jatlea finxers There is a switm of trees no fariber away itan fenninaion wito perciss in itn-
 spi:its and cotaials. The loo:let applited to the magisiratc for proiccima, lrat the mazistitac remaskel that ther cribleatiy preferseit those insidines linaids to sawers. - It was imposilice in
 Sir Charles iliarren has some yes Exceri any cdice
 nimph: hare adided shat if they wetc in:nxieaied or fisorictily he woald le wilias to fran: $a$ warrant
 not surike him. If the axfal cxampile of ithe Kiva. nixa:coinas vireads, sir Wiafted jawson maj frod

 If bees oace brexi:a so lay siege so pabic-homex, gia-palaces, luvereries and dissillecries, whis, the laddionds may as weii shat cp shop-Ex.


## Examination Papers.

UNIIERSITH OF TORONTO. Annaal Examinations, sS6
IUNIOR Matill Ui.ation.-ENGl.iSh. AkTS. Fok lass. MEDICINL: For Hosouns. Examint, -Jons SEATH, B.A.
Candidates in Arts will take all the questions excen Nos. 6 and 7 of 1 .

Candidates for Honours in Medicine will take all exceph Nos. 2 and 3 of 1.

## (:غдsMMAR.

1. " For, whilst some, with a foolish affectation of plelecian sympathy, overwheim us with the insipid common.places about binth and ancient dicseent, 25 honours containing nothing meritorivus, and rush eagesly into an ostentatious exhilition of all the circumstances which form the nosice of a humble station and humble conaections; others with exual forgetfulness of true dignity; plead with the intermorance and partiality of a legal adivocate for the pretentsions of Shakespreare to the hereditary rank of gentenian."
(a) Make a list of those words in the alove ex tract that eare not of purely E:nglish origin, indicating after each the language to which it origin. ally leclonged, and stating brictig any noteworthy goints in its history uilh which you are acquainted.
(d) Rewrite the extract, using, as far as pussible, words of purcly English origin.
2. stoces, fearful, falfi, :comesi's, accommaiafe,
 rannizas.

Distinguish beiween Derivation and Composition. Illustrate your answer ing classifying the alore words as far 25 possilile, as derivatives on comprounds, and explain tine siructure of those which you do not piace in one or other of these classes.
3. Fixplain fully, with illusirations, the cifferences and the resemblances between the noun and the pronoun, the adjective and the particip!c, and the preprosiion and the conjunction.
4. Jussify the forms of the italicised words in the following:
ilis cloiticx are always made of fine clasks. He uses 100 many $f$ 's. James has gone fartier shan his fitother. $O$ thal I erere thete. Ile will not go till he stes me. My hlood nan soid. Ah me?

5. Classify and give the relation of the elauses in the following sentences:
(a) If he were honester, he were mach goodlice.
(b) Iheshiew my soal, but I do lore thee !
(c) i woild sjealit to her as if she were a friend.
(ij) fle seemed more thin ever aer som when re scrning from school.
(c) There was no need that he should do so.
(f) Ilc that hath eats to hear, let him hear.
(r) Hic likes to plag, which indeed most boys de.
(i) If I were covetows, how is it I im so proor?
(i) O ithat thous hadst done so!
( 7 ) Wherever you go, don't go there.
6. Explain and illestrate the following state. ment:
"When looked at from the purely gramatical poim of view, the history of our language is little else than the history of corruptions."
7. Write the meaning of the following withom using figures of specch :
(a) Athens was the eye of fireces, the monture of eloyuence.
(li) Ogentle slecp, Nature's suft murse.
(c) A iyram's power in rigour is enpressed, The father yearn in the suce prince y breast.
(d) Hossoms and fruits and fowers boperber ise, And the whole gear in hay confusion lies.
(c) The way of the slothful man is an hecige of horns.
(f) Arm!arm! it is-it is-lhe cannon's opraing raar.

## 11.

1. Of the Sazons who wexe unable, or would not cmigrate, many took refuge with their families in the forest5, and with their servants, if they were rich and potent, infesting the roads along which the Noman couvoys passed with their handis, resuming laxk a;hait: that which the victor's had taken from them in mase, in ictail, and thus oltaining ransom for theis heritages, or retenging the massacre of their compatriots hy assassinations. The historians favoe:able to the Conquest, call these refugees brigamis, who in their narsatives treat them as men wilfally and mickecily armed against lauful order. Eiery day, say they, infinite thefts and hrmicides wese committed, instigated by the natural and innate wickedness of the natives and the eacesive riches of the kingdom: hut they inought fley had a sight to recover as trest they might, those siches of which they hat lecen deprived, and it was only in their opinion to obiain their own property if they lecame rolbiers, the order against which they sose, the law which ilicy violated having no sanction in their cycs : and thus the English word outhaw lost jis once unfavourable meaning, in the mouth of the subjugated people, so much so that the old, the popular legends and romances of the Finglish, have impressed a sort of poctic colouring over the person of the proseriled man, and the wandering and the free life they lived in the greenuood.
(a) Fixmplify, from the preceding, violations of she laws rclating to llaragraph-consiruction, l'erity, Clearness, Sisengh, and Meloly:
( $($ ) liewtite the exiract in sood literary form.
2. Write a composition on any une of the following subjects, using as paragraph-suhjects the subordirate suljects apyended :
(c) Thf Autioonsinf or the Lettens $00^{\circ}$ jusisus: The letress: their suphosed author; the caicrazl cvidence; the internal cridence.
(i) The Orgning Scene at thf. Thisl. of 1lastiNgS: The place of trial; the awdience; those engaged in the rrial ; Huske's specch.
(c) The Iates Jeaks of llastinges: Iis zequitial ; popular opinion thercon; has lufe in retisement ; his death and his character.

## AKTS AND NEDICINE HISTORY AND GKOGKAIMV.

 l'ass ANis flowouni

- Canditates in Arts will take the first ien questions only: Dass Candidates in Medicine will take questions 7 to 15 inclusive, and 1 lonour $C a n-$ didates in Merifine 5, 6, and 14 in addition.

1. (a) Examine at length into the causes that led to the leellopmesesian war: (i) mention the states that took part in it on either side; (c) and gite an account of the prongess of the war from the l'eace of Nicias ill its close, mentioning names and dates when prossible.
2. Write an article on the geography of Altica.
3. Giec an account of the social and political strughles in Rome from the time of the Giacchito the death of Suila.
4. Describe the loundaries of the Roman Empire at the death of Augustus, and mention briefly and in ciaronological order when and how the territories lying outside of Italy were acquired.
5. Write a brief article on the constitutional history of the scign of William lll.
6. (a) 13y what rish: or title did (ieorge 1. asecnd the English throne?
(i) Write an afticle on the political history and character of Walpole.
7. (a) What were the causes of the American War of independence?
(i) Sketch the history of this war to liurgoync's surtendet at Saratoga.
S. Draw an outline map of Spain and France showing the courses of the principal rivers with the cities and towns oi importance on each siver.
8. Mention the states that borice on l'ennsylvania, and write lurief notes on their capiat:
9. What states of the Union are noted fur the mroduction of sice, tulacco, silver, coal, and iron. respectively?

FOK CANHMATES 2 N ME:MC:RE ONLY.
11. Give an account of the Norman Conquest, priming out its infiuence on English history.
12. Over what countries did Ifenry II. rule? Mention by what right or title the ruled over each.
15. Give the causes of the Hundsed Vears' War, and sketch the histors of the latter half of is.
2.4. Give an account of the siruggle between Chasles l. and his parliaments.

## ARTS.

MISTOLI AND GHOGRAMII-IJonours.
Examinect-Jasies W. Hebin, Ph.D.

1. Give an account of the vogages of discovery of the Tudor period.
2. Wisite an articic on James I. and his farourites, and show what inflaence government by favourites had on English constitutional history.
3. Sketch the ehief events in the history of the Long lariament, giving dates and mentioning names where prossibic.
4. Give an ousline of the political history of England during the reign of Chatles II.
5. Draw an outline map of England and Wales, naming the countics and showing ihcir relative size and position.
©. Locate and write notes on: (a) Minchester, (b) Leerls, (c) Notingham, (d) Maynooth, (e) Maisley, (f) Sundetland.
6. Describe the principal british possessions in the Wict Indies, mentioning when and ander what circumstanees they were aequired.

## AKTS—ENGLISII-IIONouks.

Examiner-Jolns Seath, B.A. the merchant of vexice.

1. According to some critics this play teaches the most comprehensive humanity; according to others it caresses the narrowest bigutrics of the age. Defend concisely the wiew you think correct.
2. With misth me play the fool:

Wits mirth and laughter le: old wrinkles come :
And let my liver rather heat with wine,
Than my heart cool with mortifying proans.
Why should a man whose blood is uarm within.
Sit like his grandsire cut in alalaster?
Sleep when the wakes? and creep into the jaundice
By weing peevish? I tell thee what, An-tonio,-
I love thee, and it is my love that speaks, -
There are a sont of men, whose visages
Do cream and mantle liike a standing prond; And do a wilful stillness entertain,
With purpose to be dressed in an opinion
Of wistom, gravity, profound conceit ;
As who should say; 11 ani Sis Oracle,
And when 1 ope my lips let no dog lark:"
O. my Anioniu, I do know of these,

That thetefore only are repuled wise
For sajiny nothing ; who, I am wery sure,
If they should speak, would almost damn those cars.
Which, hearing them, would call their brothers fouls.
l'll tell thee more of this another tince:
liut fish not with this melancholy tait,
For this fool gulgcon, this opinitis.
(a) Explain and comment upon the meaning of " play the foct," " mortifying," "a uilful stillness entertain," "an opinion of wishom," "conceit," and " let no dog bark."
(b) Develop the furce of each of the figures of speech in lines $5.5,11$ and $i 3$, and 23 and 24 .
(c) Explain the learing of the speaker's semarks upon the preceling context, and comment upon their uisdom.
(d) What characteristics of the speaker are displayed in the extract?
3. To bait fish withal : if it will feed nothing else it will feed my revenge. He hath disgraced me, and hindered me half a million: laughed at my losses, mocked at my gains, scorned my nasion, thwarted my bargains, cooled my friends, heated nime enemies; and what's his reason? 1 2 m 2 Jew : hath not 2 Jew cyes? hath not a Jew hands, organs, dimensions, senses, affections. pas. sions? fed with the same fool, hurt with the same weapons, subject to the same diseases, healed by the same means, warmed and cooled by the same winter and summer, as a Chitstian is? If you prick us, do we not blect? if you tickle us, do we not laugh? if you poison us, do we not dic? and if you wrong us, shall we not revenge? If we are like you in the rest, we will resembe you in that. If a Jew wrong a Christian, what is his humility? revenge: 11 a Christian wrong a Jew, what should his sufferance be by Christian exampile? why, revenge. The villainy you teach me I will execute; and it shall go hard but I trill better the instruction.
(a) Express the speaket's meaning in the brietest and most impassioned form.
(b) Show in detail how the intersity of his emotions has moulded the expression of his meaning, naming the emotions and the shetorical forms.
4. State what secm to you to be l'ontin's reasons for the different stepss she takes in the management of the tial, and show that her cepportment there and the phan she forms for the release of her hushand's friend, illinstrate the fin:st traits in her character.
5. Por.-That light we sec is bummgr in my hall.

How far that little candle throws its beanas!
So shines a gookl deed in a naughty world.
Ner.-When the moon shone we did nut see the candle.
I'or.--So duth the greater glory dim the less : A sulstitute shines brighty as a king, Unila a king be ly; ; and then his sate Empuies itself, as cooth an inland brook Into the main of waters. Nusic : hark :
Ner.-It is our music, madan, of the houre.
Por.-Nuthing is good. I sec, without tespect:
Methinks it sounds much sweeter than by das:
Ser.-Silence lestows that virtue on it, madam.
for. - The crow doth sing as sweetly as the lark,
When neeither is attended; and, 1 think,
The nightingale. if she should sing loy day,
When every goose is cackiing, would be thuughs
No letter a musician than the wren.
How many things by season seasoned
are their dight praise and true perfec. tion!-
licace, ho the meen sleeps with lin. dymion.
Ind would not le awaked.
(a) Explain and comment upon the meaning of "naughty"; "state"; "the main of waters": "uithout respect": and $11.10,13 \cdot 15$ and 19.22 .
(b) Show how the poet has secured the quality of Harmony in the above.
(c) Account for Portia's mood, and show the drama:ic propricty of each part of the afterpicce io the trial.
6. Descrite the secne in which Bassanio makes his choice of the caskets, embellishing your deseription with brief guotations.

## AKTS AND MEDICINE-MATHEMATICS.

## 

1. If a straight line falling on iwo other straight lines, make the alternate angles equal to one an. other, the two straight lines shall be parallel to onc another.
Find a point $f$ in a given straight line $C D$, such that if afithe drawn wo ff from a given point $A$, the angle $-\boldsymbol{f} B C$ will be tgual to a given angle.
2. Divide a given straight line into two parts, so that the rectangle contained by the whole and one of the parts may be equal to the square on the other part.
Show that in a straight line so civided, the rectangle coniained by the sum and difierence of the parts is equal to the rectangle contained by the parts.
3. If a straight line louch a circle, and from the point of contact 2 straight line be drawn cutting the circle, the angles which this line makes with the line touching the circle shall be equal to the angles ia the alictrate segments.

If two circles tutch each olter, any straight line drawn through the point of contact will cut off siutilar segments.
4. A con' ractor engaged to complete 1,000 yards of railway in 50 days, and employed 100 men working 9 hours a day, but at the end of 30 days he found only 450 ,ards finished; how many additional men must he hure, in order that all workinf: 10 hours a day may fuish the work :n the given time.
decimal of a dollar, assuming the value of $\$ 30$ to be $\$ 146$.
6. Standard gold is :3tS.94iz an ounce ; find the least number of ounces that can bee cuined (1) into an exact number of $\$ 5$ pieces ( 2 ) into an exact number of sovereigns, atid find the number of coins in each case.

```
7. (a) Multiply together \(1 \times+1 y^{\prime}+1^{\prime}=\),
\(1 x-1 y+1=1 x+1,1=\) and \(\sqrt{x} 1 y\)
\(-1=\)
    (f) Divide \(a^{x}+\left(a^{2}+1\right)^{4}+1\) by \(a^{4} \div a^{2}+1\).
```

    S. Write down the factors of \(a^{2} b^{3} c^{4}\), and \(x^{2}\) -
    $5 x-36$
Heduce to iss lowest termis the fraction

9. Solve the Eipuations:-

(i) $\frac{1-4}{x+1}+\sqrt{x-4}=21+517$
(1) $\{x=3$
$\left(x^{7}=y^{2}\right.$
(a) $\left\{\begin{array}{l}x^{2}+1=1 \\ 3 \\ y-3 \\ y=0\end{array}\right.$

10. A person lought a cetrain number of sheep
for $\$ 30$. Ilaving lost 4 of them, he sold the re- mainder of them at $\$ \mathrm{I} .50$ a head proft, and found that he had gained ou his bargain a rate per cent. equal to the number of sheep bought. Ii:w many sheep did he buy?

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