The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checked below.

$\square$
Coloured covers/
Couverture de couleurCovers damaged/
Couverture endommagée

$\square$
Covers restored and/or laminated/
Couverture restauree et/ou pelliculbe

$\square$
Cover title missing/
Le tirre de couyerture manque

$\square$
Coloured maps/
Cartes geographiques en couleur

$\square$
Coloured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)Coloured plates and/or illustrations/
Planches et/ou illustrations en couleur

Bound with other material/
Relié avec d'autres documents

Tight binding may cause shadows or distortion along interior margin/
La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure

$\square$
Blank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/
II se peut que certaines pages blanches ajoutdes lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible. ces pages n'ont pas èté filmées.

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peint-etre uniques du point de vue bibliographique, qui peuyent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.


Coloured pages/
Pages de couleurPages damaged/
Pages endommagéesPages restored and/or laminated/
Pages restaurées et'ou pelliculés


Pages discoloured, stained or foxed/ Pages décolorées, tachetées ou piquées


Pages detached/
Pages ditachoes


Showthrough/
Transparence


Quality of print varies/
Qualité ińgale de l'impressionContinuous pagination/
Pagination continue
$\square$ Includes index(es)/
Comprend un (des) index
Title or header taken from:/
Le titre de l'en-tete provient:Title page of issue/
Page de titre de la livraison


Caption of issue/
Titre de départ de la livraison


Masthead/
Générique (périodiques) de la livraison

$\square$
Additional comments:/
Commentaires supplémentaires:

This item is filmed at the reduction ratio checked below/ Ce document est filmé au taux de réduction indiqué ci-dessous.


# EducationalWeekly 

Vol. III.

## The Educational Weekly

Edited by T. Arnolin Haumian, M.A.

TERMS: Two Dollars per annum. Cluls of three, $\$ 5.00$. Clubs of five al $\$ 1.60$ enel, or the five for $\$ 8.00$. Clubs of twenty at $\$ 1.50$ each, or the twenty for $\$ 30.00$.
New sulscriptions may legin at any time during the year.
l'ayment, when sent by mail, should be made by post-office order or registered letter. Money sent in unregistered letters will be at the risk of the senders.
The date at the right of the name on the adt. dress balel shows to what date the subscription is paid. The change of this date to a later one is receipt for remittance.
Subscribers diesiring their papees discontinued are requeste , to give the publishers timely notification.
In ordering a change of address, or the discontinuance of tne paper, the name of the post-ofice to which the paper is sent should always be given.
Kates of advertising will be sent on application.
Business comamunications and communications intended for the Editor should be on separate papers.

THURSDAY, MAY GTI, 886.
find in thee same States, where one would expect naturally to meet with liberal idens resultant from these mighty educational processec, women regarded as disqualified, by the mere fact of ses, from receiving the wagss given men for the identical work."

He goes on then to show that the teacher is deserving of greater recompense at the hands of the State. "If," he says, "the State deserve the unremitting and unswerving services of the teachers, it should pay to them such wages as would enable them to live in comfort and respectability while engaged in that service, and, as they cannot be expected to engage in outside pursuits for pecuniary profit, those wages should either be large enough to enable them to provide against the incapacity of old age, or they should be pensioned in comfort after they have spent their best days in the service of the State. But whichever be the brtter policy -and surely the teachers deserve as much at the hands of the State as the soldieryit remains that the teacher at least should be relieved of anxiety lest he be suspended at the end of the school.term for no fault of his own."

Onc cause, and that a principal one, of low salaries he has well shown:-" Positions as teachers are now sought by many who deliberately use them as steppingtones to something else-joung women pending marriage, young lawyers pending the coming of their first clients, young doctors pending their first calls. The profession descrves better than this. It should not be regarded as a make shift, or a kind of temporary refuge for the distressed of other vocations. Such members can afford to work cheaply, and to such the school-boards look for recruits and have no difficulty in finding plenty of them, thereby being enabled to expend the people's money for the benefit of contractors and for paraphernalia of questionable utility. It is not to the work of such recruits, though they comprise a large proportion of the school-teachers of the country, that the progress of education
is owing ; it is to those who, in the face of small salaries and other discouragements, lojally cling to the work to which they believe they have been called, who devote themselves to teaching as to a science which is worthy their continuous stady and life-long pursuit Tearhers are not to be employed as we employ diggers of ditches. It is not every man who can teach, though there be few who cannot use a spade. They should be employed because they are skiited in teaching. The State coafesses the need of skilled teachers in the provision of the nomal schools."
But to skilled teachers he thinks the State camot be too liberal. "The State can well afford to be generous in this matter. If such admirable results have been achieved through the frec-education policy of the people thus far, it would be found, under a policy which would involve the improvement of the teacher's condition, that the cause of education would advance at a rate unparalleled in the previous educational history of the country. Made secure in their offices, they could go confidently forward in the great work they have to do, battling against ignorance, prejudice and the powers of darkness. They would not be tempted to trir, compromise, or abate their self.respect. They would acquire personally the prestige which properly belongs to their high and worthy office, and could command the consideration they must now implore. It used to be said during the war that it was the schoolhouse against slavery, and the schoolteacher triumphed most certainly when the shackles fell from the limbs of the bondman. For his services to humanity he receives much wordy tribute. It is quite time he should enjoy more substantial reward. The people are entirely willing. But the will of the people often finds curious expression from delegated authority, and things go strangely awry when the books of a State treasurer will show millions spent for education and the teachers receiving on an average but little more than a dollar a day."

## Contemporary Thought.

The tencher or trard of education that does not foster goodness by esteeming estimable qualitics and merit, by approving meritorious acts, has sadly neglected to perform the whole daty involved, atd will eventually have an encomfortable responsitility to meet,-N. E. Leach.
TIIE man who reads habitually breathes the atmosphere of social human experience, and is so far made to feel the sulistantiality of social life over mere brute life. He learns to look upon his every act from the standpoint of public opinion. He views all his own industry in its relation to the industry of his fellow men.- IH. T: Sarros, L....7.

A correspomingry of the Citizet, of Boston, U.S., holds that "teaching in civics should hegin on the tay when the child enters school." It maj, perhaps, le necessary to premise that the new word "civics" is used to denote the science of citizenship. The school certainly fails in one of its highest duties if the whole course and influence of its training do not tend to fit the future men and women to become good citizens, whatever may te thought as to the desirability of adding a new science, under the name of civies, to the alteady overgrown currirulum of the pullic school. -Sthoolmaster (Londen, Ems.)
A к.xowience: of sanitary chemistry is an important aid to the preservation of health. Alumst anywhere may be found nice houses, well furnished throughout, and occupied by first-class people, where no speck of innocent dust is allowed to find lodgment on chair or table; all seems right about the premises, and the inmates wonder why typhoid fever lurks about the house, why somebody is always sick there. A knowledge of practical chenistry would soon enable them to trace the presence of disease to had drainage or some other sanitary defect. Chemistry enjoins thorough cleanliness in all departmems. It forbids breathing impure air, drinking impure water, etc., or suffering any sources of discase to find permanent lodgment in maman abotes. - Neiu England Journal of Edacation.
"CasąDa is too young a country." So we are constantly told when one attist (musician and paintes) after another has to leave this country for want of support. There is such a thing as the "vice of contentment," and there are peopic whose wealth consists in the fewness of their desiges. Can any country be too young for art? Surely it does not cxist merely for the so-called educated people, and those whose riches enable them to spend and exhibit it on ant. Being the exponent of imagination, thought, memory, emotion, and the great cultivator of all that is highest, nobiest, and best in man, what can be of greater importance? Its influence should be felt in the cducation of the young, looth rich and poor. The love of nature and of the beautiful cannot be too early impressed on a child, helping to endow it with " sensibilitics of great preciousness to humanity," and att is the nurse. For heaven's sake let those who realize the value of art in "teaching the young ideas how to shoot "do their utmost to encourage and ieep their devotecs in this country;
for Canada needs all the warm and loving intluences of ant to anise her alove the cold amd hardening efiets of mere money-making. It is well her sons should grow rich, hut let them also grow rich in th- love of the leantiful and noble, and not rest in the " vice of contentumens."-" Fireder" in the Werts.

As apostle onec wrote, " Lect love be without dissimulation." Had he lived in our day, he might have thuught it quite as important to say, "Let love be without sentimentality." In looking over the reports of charitable institutionsespecially purely voluntary ones-we are frequently struck by the utter alsence of any attempt to deal in what might be called a seientific manner with the facts that come wibin their scope. Insteat of this, we have any amount of sentimentality and gush, pious ascriptions of thanks to I'rovidence, considerable laudation of the oficers engaged in the work of the institution, and long lists of donations, with the names of the donors, of course. Now, we would cheesfulls; exchange all this for a litte information likely to be servicable in a scientific point of view. Say it is an "orphan's home." What we should like to know in connection with the operations of such an institution maj be roughly indicated under the following heads:-1. In regard to each inmate, whether he or she is really an orphan or not. 1. If so, how the condition of orphanage and dependence arose. 3. How it happened that private aid from friends or relatives was not fortheoming-whether, for example, the existence of a convenient asylum into which the orpan could be put had anything to do with the child being placed there sather than otherwise provided for. 4. What moral effects scem to fiow from the alsence of parental affection and influence. 5. What the special influences of the home or asylum seem to be in different classes of cases. G. What the subsequent course in life of children released from the home has been.Fophlar Science Alonthis.
M. de. Cannot.les's opinions respecting the influence of politics and government patronage on scientific prursuits are, in fact, very decidedly expressed. A'ter showing how religious prepros. sessions, which are usually more positive, more firmly held, and more exclusive than any other kind of prejudices, may interfere with the free exercise of scientific thought, he olserves that the incompatibility of political relations is still greater; for politicians defend, not what they believe to be true, hat what appears practicable or possible to realize, and are sulservient to the authority of chiefs and majorities. lolitics agree well with the aims of those whose chief pursuit is that of material gain, for such men frequently have to use the same methods as politicians to succeed ; bur the person who is secking for pure truth in history, in law, or in moral, natural, or other science, is out of his place in a political assembly. lie would hardly go there except from motives of patriotism, or under a transitory, enthesiastic impulse, and would sery se on find out that he did not lelong there. How could he lena himself to the manceuvres of politicians? How, for example, could he trade off a principle against a railtoad, a charitable foundation for an election? How conld he consent to transactions between truth and falschockl, to the barter of opinions, which is the rule in political affairs? Men of science are
sometimes found in consideralide numbers in prolitical assemblites, but the others always do their best to make them ridiculous, and kill them of by giving them bad names. "As a sule," M. de Candolle adds, "governments iso much confound teaching with progress in science. Many of then believe they have done everything when they have created schools and universities. They do not compreheud that they ofien do more harm than good by restricting these institutions in their methods, or in the choice of eachers. They do not know to what degree science lives on liberty and on the individual work of masters and pupils outside of the lessons.-From "De Candolle on the Production of Men of Science" in Popnlar Science Monthly.
I come now to speak of the struggle for existence which is constantly going on beiween languages geographically near to one another and between different dialects of the same language. Uniess one of the idioms is especially favoured in the struggle by political circumstances, it is evi dent that the one which is most advanced in evolution will gain upon those which arc leas advanced ; this fact can be estabished by many examples. Tinus, in the territury which is now France, Latin, introduced into Gaul Ly a relatively small number of persons, shortly surpassed the Cellic dialects. The French language is wholly Latin, having retained from the Celtic only a few recollections in its vocabulary; but, when the Germans established themselves in a large patt of Gaul, instead of giving their language to the conquered population, they abandoned it in the end and adopted the neo-Latin; which afterwards lecame French; and the French language is no more Germanic than it is Celtic. Natural selection has caused the disappearance of a considerable number of idioms. Languages which come into conllict are like groups of animals that have to struggle with one another for existence. They must gain upon their competitors, or resign themselves to disappear before them. Just as, in the centest for life and development, the best-armed races finally prevail over those which are less favourel, so languages which are best served by their own aptitudes and by external circumstances prevail over those whose evolutive forue is less considerable, and over those which historical conditions have less well prepared for the comlat. In France, the French, the ancient langue doil gradually supplanted the Jangue dooc, the Corsican, the Breton, the Flemish, and the Basque. In the Mritish Islands, English eclipsed the Celtic languages, Irish, Scotch, Manx, and Gaelic., and will shortly have supplanted the Cornish. German has overconce a number of Slavic idioms. Another kind of selection is going on within the language itseif with reference to the use of particular forms and words, In reference to this, the study of dialects is of great iniesest. Dialects should not be regarded as degenerate conditions of literary languages. These languages are simply fortunate cialects, whose rival dialects have been jess favoured. We are constanily mer urg in dia. lects forms and words which their sister literary languages have not preserved; and this fact gives dialects an important place in the study of the natural history of language.-Frons she " Avoiktion of J.anguagc," by M.A. Hovelarguc, in Popolar Science Monthly.

## Notes and Comments.

Tuppex is preparing his literary memoirs. The volume will bear the tille, "My Life as an Author."

Mr. Pool's paper on Art which we print in this issue was embellished by man; excellent chalk sketches no the blackboard. We regret that it is impossible to give any cuts of these.

Harvard University, foilowing the example of Johns Hopkins, will shortly begin the publication of a series of contributions to political and economic science. It has been enabled to do this by Jolin 1:. Thayer, who has donated $\$ 15,000$ for the purpose.

Cardinal. Gullert, the archbishop of Paris, gives utterance to most plaintive protestations against the withdrawal of state aid from bishops, priests, and Roman Catholic schools. France, he declares, has thus been branded with "the stigma of official atheism."
THE first Report of the Art Students' League contains, in addition to statistical matter, a report written by President Waller. The League is a noble institution to which American art owes much, and the apologetic and slightly eleemosynary tenor of some of Mr. Waller's remarks can hardly be commended. The League long ago proved its ability to stand alone and ask no favours.The Critic.
Must we put aside our hope of pure Anglo-Saxon to the day of millenium when all good things will come? A glance at a page of the Note-Book, the work of a halfhour with our morning paper, makes us believe so. The first news item is of an "inebriated individual," the book reviewer praises certain " daints booklets," an advertisement calls attention to an "elite event," and a correspondent from the South tells how the "fiowering trees may be seen in a perfect galaxy of beauty," and tha: he went on a "recherché drive." -The Chuutauquan.
Mr. Churton Coluns has written a book on Bolingbroke, in which, it is said, it is to be proved to demonstration that, though Newton may have been in his garden when his grand idea struck him, may even have sat beneath an apple tree, none of the fruit fell. There it hung, and if Newton could not work out his laws of gravitation without it, then he must try something else. The apple story is an invention of Voltaire. It is first given in the fifteenth of his "Lettres sur les Anglais," published about 1733. The "Life" of 1723 makes no mention of it, nor does Whiston; and pemberton only says that Newton was in a garden when his theory occurred to him.-Ex:
As unforeseen trouble has arisen in consequence of the secularization of the Pan-
theon in Paris The splendid frescoes which have occupied the leading artists of France nearly ten years are already showing signs ot injury from damp. So long as regular services were held in the Pantheon the constant influx of fresh air and the warmen generated by the congregations kept the interior tolerably dry. Now these intluences are withdrawn, steps must be taken to preserve the frescoes. Unfortunately there are no existing means of warming the building, so that it will be necessary to crect stoves if the works of Puvis de Chavannes, Cabanel, Laurens, it. Levy, and others are to be preserved.-E.:
"Horrors in Architecture, and So called Works of Art in Bronze in the City of New York" is the imposing and (to use a Teutonism) curiously-stimulating title of an anonymous. brochure recently issued in this city. When examined, it is found to resemble the mountain that groaned and heaved and finally brought forth a mouse. We are all painfally aware that our municipal architecture and public sculpture possesses many defects, but personal attacks upon sculptors and architects are not likely to clevate either our artistic or our moral tone. Calm, serious, impartial criticism is always welcome, but anonymous pamphlets deserve no more attention than anonymous letters. - The Critic.
"Lounger," in the Critic, says: "I have lately heard an authentic anecdote of Darwin, that seems quite worth repeating. It refers to his old age-the period when he was bringing out his books on the habits of plants. His health was poor; and an old family scivant-a woman-overhearing his daughter express some anxiety about his condition, sought to reassure her by saying: - Hi believe master 'd be hall right, madam, hif 'e only 'ad somethin' to hoccupy' 'is mind; sometimes ' $e$ stands in the conservatory from mornin' till night-just a-lookin at the flowers. Hif 'c only 'ad somethin' to do, ' $e$ 'd be hevver so much better, hi'm sure.' No one enjoyed the joke more than the great naturalist himself."

Under the title, "How to Talk to Young Children," the American Leader well says: "It requires more than ordinary wisdom and tast to conduct a profitable conversation with young children. The topics should be carefully chosen with a definite purpose in view. A good 'talk' requires a good subject and an accurate use of language. The style should be inspiring and cheerful, and may often aptly illustrate the definition of humbur which Miss Thackeray repeats from the lips of a lady friend: 'Tiulking in faln while thinkij!s in carnest.' Such 'talks' often have a surprising effect, stimulating thoughtful questions and arousing the dormant faculties of children, and leading them into
new fields of obscruation and thought ; even playful conversations should have an element of moral dignity associnted with them on the teacher's part; the language should always be pure, grammatically correct, and free from vulgarisms or slang phrases. The example of the winsome teacher is contagious; good habits of expression will have an elevating tendency, while loose, inaccurate, and carclessly chosen words in conversation will counteract much of the gond work done throngh language lessons in the class-room. Remember that 'talkiag' wisely is a 'fine art,' and must be practised constantly to give the highest effect, even when accom. panied with genius."

The death of Archbishop Trench will bs a cause of deep regret to many. There are thousands of teachers and students who must deplore his death as that of a friend, for his books have been among those which are highly prized by the educator. His works on the words of the English language have done much, not merely to inform the student, but to arouse his curiosity and to impel him to fresh discoveries in the same field of inquiry. The Archbishop's philological lectures "On the Study of Words" were first delivered to the pupils at the Diocesan Training School in Winchester. They must be extremely popular, as the edition of 1878 is the seventeenth. The lectures do not com. pete with those of Max Muller, or more austerely learned men, but are popular and anecdotic. The archbishop showed how personal names had been played and punned upon; he revealed the poetry in words denoting flowers, "meadow-sweet," "sundew," "love-in-idleness," "rosemary," and so many others. Birdu and stars, with their popular names, the windhover and the halcyon, all come in. The Morality of Words also (as the Daily Ne:us observes) was not neglected. Much was done to disengage the thought that has gathered, like lichens of many hues, on the old terms which have lived with men through uncounted generations. It was a pleasant, poetical kind of philology. "The word, we know, becomes a "wonder to us," as the Laureate says, and it was the Archbishop's part 10 reveal this wonder where poople, perhaps, had not suspected it. The ideas lay just a little below the commion surface of thought, so near that every one could delve :hem for himself when he had been shown the knack; yet so deep that, till people were taught the knack, the treasure of thought lay absolutely hideren. History, religior, edification, and intellectual bric-it-brac, all wers unearthed from below the crust of words. This litule book has well deserved the very wide appreciation which greeted it, and, no doubt, set many readers about quite a novel business-thinking for themselves. - The Schoolmaster (Lons., Eng.)

## Literature and Science.

THE PACE OF METEORS.
Anour six weeks ago we referred to the fact of an extraordinary brilliant metenr hasing flashed across the sky in this neighbourhood, and we invited communications upon it from any who might have observed it. It seems that upon the same night a similar meteor was observed in England. Now, under ordinary circumstances, there was nothing notable in this, for meteors are known to be continually falling, it having been calculated that many millions of them fall annually upon the earth. But that one should fall of exeecding brilliancy, and described in almost identical language by correspondents in the Times and by ourselves, is worthy of note and of further inquiry. We recorded that sach a meteor appeared at 27 minutes past 12 in the direction east-south-east Irom Cumballa Hill, from which place it was seen. It was subsequently reported from Rutnagherry that a meteor was seen there but to the north. A correspondent wrote us from Mahableshwur, who reported that he saw a very bright meteor at half-part I (local time), but the great difference in time pointed to some error in recording the exact appearance, or else proved that it was some other meteor that was seen. Ir. England there was a meteor which seems to have passed over London about 5.5 p.m., Greenwich time, or 9.55 Bombay time. And it appears to have been travelling eastward. It does not seem beyond the bounds of possibility that the meteors seen here and in England were the same. The absolute difference in time would thus be 2 hours 32 minutes, which is equal to the time taken to travel the distance between these two points. Assuming this distance to be about 5,500 miles, the rate at which the meteor was travelling was about $35 \frac{1}{2}$ miles a minute in the earth's atmosphere. The rate at which meteors tratel in interstellar space is about to to $j 0$ miles per second. So that the difference between these two rates of speed shows the retardation due to the earth's atmosphere, always going upon the assumption that the meteor seen in England was the same as that seen here. To settle this point it will be of interest to know if any one between jombay and London noticed the brilliant metcor of the 16 th of January, and it would also be interesting to know if any one saw it on the other side of India and further eas:. Though meteors and meteorites fall in such great numbers, it is very rarely that their history can be traced, and it appears that a service may be done to science by tracing out the path of this particular one, if so be that two points in its journey have been fixed.-Times of Judia, March G, 2886 .
[This calculation is somewhat crude. The distance, 5,500 miles, which the Times of

India supposes the meteor to have traversed in 2 hours 32 minutes, is the length of an arc of the citcle the radius of which is a line drawn from the centre to the surface of the earth-say 4,000 miles. The calculation is very much more complicated than the Times of India supposes. Fur ( 1 ) the meteor certainly was at first travelling in an ellipye; (z) one (the aphelioric) focus of thir ellipse it would be extremely difficult to discover; (3) but even if the foci were known, it would be extremely difficult totrace the path described, inasmuch as it is impossible to know at what point in its orbit the gravitation of the eath was strong enough to cause the metcor to alter its course from an elliptical to a parabolic curve: (4) and. consequently, it would be proportionately difficult to determine the nature of this curve; $(j)$ its altitude was unknown : (6) the direction in which it was travelling was unknown: The planes of the orbits of the different groups of meteors form very different angles with the ecliptic, and this meteor might have caught up the earth, ur met it, or approached it at an angle of $90^{\circ}$. The only point of interest which the Times of India has perhaps discovered is, that the same meteor was seen in India and in England. But that these bodies are occasionally seen from points of view widely separated is no new discovery. Our readers may remember that a brilliant falling star which appeared in Canada in the autumn of 1S84 (about; if we recollect aright, 2 a.m., of September 1st) was noticed and commented on by newspapers printed in towns separated by 300 miles and more.-En.]

## LONGRELLOW.

The qualities which render Longrellow's art delightful have passed over into the popular conception of his personality; and it is a great satisfaction to find, now that his letters and diaries have been published, now truthful and generally accurate this popular conception has been. Mr. Samuel l.ongfellow, in editing his brother's life,: has wisely chosen in restrict his habor for the most part to the selection of illusitrative passages from the diary which the poet kept and the letters which passed between him and his $m$ ist constant correspondents. We have no reason to suppose that this selection has been made upon any other principle than that of presenting the most interesting and most characteristic fealures of a long and varied carcer; it would scarcely have been possib!e, in the range of this material, to conceal any marked trait of the poet, and therefore we have a right to believe that in these two abundant volumes we have a faithful and adequate portrait of Longfellow.

[^0]We repeat that it is a satisfaction to find this record tally so well with the popular apprehension of the poet's life. There are no rude contradictions, no ugly disclosures ; those traits which we knew, whether personally acquainted with him or not, are presented in deeper, more abiding lines; some fresh and happy revelations are made, in harmony with the general conception, but not before so distinctly asserted; occasional commentaries on his work offer themselves. But on the whole we may say that we know Longfellow better and more intimately ; not that we know a different man from what we had imagined, or that we are obliged to reconstruct and modify the image already clearly formed.

It is singular, when one stops to consider, how entirely the popular conception of Longfellow has sprung from his art, and how little it owes to external testimony. He shrank from publicity, and though he was the recipient of numberless visitors, and accepled with patience the burdens which his fame imposed upon him, there was a charmed circle within which he dwelt, and beyond whose line none passed except the very few who would be the last to disclose any: of the knowledge which they thus obtained. The occasions on which he took part in any public exercises were so rare as to intensify his privacy; and this retirement was a note of his character, not the result of any deliierate choice or policy. "Was to have gone to the Franklin birthday banquet in the Port," he writes in his diary; "but sent the carriage away, hearing that I was expected to reply to a coast in honor of ' the poets of Cambridge.'" But no one who was present can forget the occasion of his littie speech in Sanders Theatre, in Cambridge. The hall was filled with an audience of schoolchildren, and such of their elders as could find admittance, met to celebrate the two hundred and fifteth anniversary of the oset. tlement of Cambr dge. The chair made from the spreading chestnut-trec, which the children had given him, stood upon the platform, as a pleasant, silent response from the poet. He himself was among the guests grouped about the speakers of the day. Suddenly there was a hush of expectation. The governor was to have spoken, but was not present. The mayor, who was presiding, leaned over and spoke to Mr. Longfellow, and rose to say that the poet had consented to speak to the children. The quiet voice with which, standing where he had been sitting, he uttered the few graceful sentences that rose to his lips was the expression of a nature acting spontaneously and naturally, undisturbed by circumstance, yet moved by a force of sentiment which was set in motion by the spectacle before him.

There are but slight witnesses to the ex'ernal course of his life to b: found in

Longfellow's prose or verse. In one of his letlers to Mr. Greenc, when Hyperion had just been printed, he says, "The fceling's of the book are true; the events of the story mostly fictitious. The heroine, of course, bears a resemblance to the lady, without being an exact purtrait. There is no betrayal of confidence, no reat'scene described. Hyperion is the name of the book, not of the hero. It merely indicates that here is the life of one who in his feelings and purposes is a 'son of Heaven and Earth;' and who, though obscured by clouds, yet 'moves on high.' Further than this the name has nothing to do with the book, and in fact is mentioned only once in the course of it. I expect to be mightily abused. People will say that $t$ am the lero of my own romance, and compare myself to the sun, to Hyperion Apollo. This is not so. I wish only to embody certain feelings which are mine, not to magnify myself." it is common enough for readers to insist upon a close correspondence between a poct's impersonations and his personal experiences, and in the case of Longfellow they have refused to accept any but the most literal rendering of Hyperion and of a few of his poems. Nor is it impossible to trace the lines of his life, now and then, in his verse; especially is it easy to recugnize his companionship. Still, the revelation which Longfellow's poetiy makes is of that inner experience more important to understind than any mere external circunstance, and it is because of the freecom and fullness of this revelation that we are able to say, we knew the poet from his poetry before we were able, from these volumes, to see how perfectly this inner life was in harmony with the outer shell in which it was formed.
Here may be observed a difference between Longfellow and Hawthorne. Both were men of seclusion ; both were instinc. tively artists. The evidence concerning both may be said to be all in ; we have their works, their private journals, and we have external testimony regarding them. But Hawthorne has been brought very much closer to men, in his personal relations, through the publication of his life; there have been laid open almost unknown tracts of his nature. His books, for all their ap. parently coufidential air, never zeally tuld very much of the man. Longfellow, on the other hand, concealed himself behind a veil so thin that while it was a perlect protection to his own consciousness, it was a transparent medium for the public. His journals and letters make this clear, and only translate into the language of fact what we may already be said to have read in the language of symbol.
It belonged to both of these men to be intimate chiefly with themseives. But Hawthorne cultivated this intimacy, and by long
habia made his journals hold a very inportant place in his mental and spiritual life. Longfellow, less of a recluse, wils surrounded by other intimate fiends than himself, and his diary, white apparently regular, was by no means so necessury a confidante as was the case with llawthorre. It :was less the record of his spiritual lim, though often interesting in this view, and more the transcript of his thoughes about his occupation, and the memorandum book of literary and personal judgment. The short, frequent entries attest the melhod of his life, and indicate also the large absorption in work and friends which furbade too close an attention to his own moods. His letters reflect his intimate thought less directls; they are free, generous gifts of himself. They do not spring, as some letters of literary men do, from a naive interest in his own performances ; they always suppose the recipient, and show how gracefully and unaffectedly the writer entered into the life of others.Allantic ifonthly.
(70 bic continued.)

## Special Papers.

## DEVELOPMENT OF THE MORAL FACULTY:*

ur jaหks suluv, u.a.
IT has long been disputed whether the moral faculty is innate and instinctive, or whether it is the result of experience and education. The probability is that it is partly the one and partly the other. The child shows from an early period a cisposition to submit to others' authority, and this moral instinct may not improperly be the transmitted result of the social experience and moral training of many generations of ancestors. Yet, whatever the strength of the inuate disposition, it is indisputable that external influences and education have much to do in detcrmuning the int.nsity and the special form of the neoral sentiment. We have nox to trace the successite phases of its development.

A conscinusness oi moral obligation arises in the first instance by help of the common childish experience of living under parental autherity at the outset. The chide's repug. nance to doing what is wrong is mainly the egotistic feeling of dislike to or fear of punishment. By the effect of the principle of association or "transference," dislike to the consequences of certain actions might lesd on to a certain measure of dislike to the actions themselves. And such an effort would greatly strengthen the innate disposition to submit to authority.

When the forces of affection and sympathy come into play, this crude germ of moral
"From " Elernents of Pychulosy, with Syecial Apalica. tions to the art of t'eaching," in press of D. Appleton \& tious
Co.
fieling would advance a stage. An affectionate child, finding that disobedence and wrons doing offend and distress his mother or father, would shrink from these actious on this ground. Not only so, the promptangs of sympathy would lead the child to set a value on what those whom he loves and esteems hold in reverence. In this way love and reverence for the father lead on naturally to love and reverence for the moral law which he represents, enforces, and in a measure embodies.
Liven now, however, the love of right has not become a feeling for the inherent quality of moral rightness; it is still a blind respect for what is enjoined by certain persons who are respected and beloved. In order that the blind, sympathetic regard may pass into an intelligent appreciation, another kind of experience is necessary.
Thrown with others from the first, a child soon finds that he is affected in various ways by their actions. Thus another child takes a toy from him or strikes him, and he suffers, and experiences a feeling of anger, and an impulse to retaliate. Or, on the contrary, another child is generous and shares his toys, etc., with him, and so his happiness is augmented, and he is disposed to be grateful. In such ways the child gradually gains experience of the effect of others' good and bad actions on his own welfare. By so doing his apprehension of the meaning of moral distinctions is rendered clearer. "Right" and "wrong" acquire a certain significance in relation to his individual well-being. He is now no longer merely in the position of an unintelligent subject to a command; he becomes to some extent an intelligent approver of that command, helping to enforce it, by pronouncing the doer of the selfish act "naughty," and of the kind action " good."
Further experience and reflection on this would teach the child the reciprocity and interdependence of right conduct; that the honesty, fairness and kindness of others toward himselfare conditional on his acting similarly toward them. In this way he would be led to attach a new importance to his own performance of certain right actions. He feels impelled to do what is right, e. g., speak the truth, not simply because he wants to avoid his parents' condemnation, but because he begins to recognize that network of reciprocal dependence which binds each individual member of a community to his fellows.

Even now, however, our young moral learner has not attained to a genuine and pure repugnance to wrong as such. In order that he may feel this, the higher sympathetic feelings must be further developed.

To illustrate the influence of such a higher sympathy, let us suppose that A
suffers from l's angry nutbursta or his areedy propensities. He finds that C and 1 ) also suffer in much the same way. If his sympathetic impulses are suffisiently keen he will be able, by help of his own similar sufferings, to put himself in the place of the injured one, and to resent his injury just as though it were done to himself. At the beginning he will feel only for those near him, and the objects of special affection, as his mother or his sister. Hence the moral importance of family relations and their warm personal affections, as serving first to develop habitual sympathy with others and consideration for their interests and claims. As his sympathics cxpand, however, this indignation against wrong-doing will take a wider sweep, and cmbrace a larger and larger circle of his fellows. In this way he comes to exercise a hisher moral function as a disinterested spectator of cthers' conduct, and an inspartial representative and supporter of the moral law.

The highest oulcome of this habit of sympathetic indignation against wrong is a disinterested repugnance to wrong when done by the individual himself. A child injures another in some way, either in momentary anger or through thoughtlessness. As soon as he is able to reflect, his habit of sympathy asserts itself, and causes him to suffer with the injured one. He puts himself at the point of view of the child he has wronged, and from that point of view looks back on himself, the doer of the wrong with a new feeling of self-condemnation. On the other hand, when he fulfils his duty so another or renders him a kindness, he gains a genuine satisfaction by imaginatively realizing the feelings of the recipient of the service, and on looking back on his action with complacency and approval.

When this stage of moral progress is scached, the child will identify himsell with the moral law in a new and closer way. He will no longer do right merely because an external autherity commauds, or because he sees it to some extent to be his interest to do so. The development of the unselfish feelings has now connected an internal pain, the pang of self-condemnation, and of remorse, with the consciousness of acting wrongly; and this pain being immediate and certain, acts as a constant and never-failing sanction. -Popular Science Monthiy.
(Tobe continact.)
Mills Cobiege, California - Homer 13. Sprague, LLL.D., President-offers $\$ 700$ in prizes, to be divided equally among those candidates who shall pass a satisfactory examination, and le admiticd to the frestiman class during the month of It:'y. The :ulject, fur canmination are the same as at Sinith Coilcge, Massachusetts, last year, wish the addition of wh thamination in English literature, and the minissiun of English into Greek. The list of subjects will be furmshed upon application to Dr. Sprague.

## Educational Opinion.

## PATKIOTISN IN THE SCHOOL. ROOM.

I NOTICED with pleasure in a recent number of the Eiducational. Wembio an article entitled "Canadian-Vational Homogencity," from the pen of Dr. J. G. Hodgins, Deputy Minister of Education. I regard Dr. IIod. gins' paper as botls timely and suggestive. Every teacher knows that the schoolroom should be a yery temple of patriotism wherein young hearts may be inubued with a love of country, and drawn to its allegiance by a study of the great men who have left theirimpress upon the pages of history by wise and hrroic deeds in council and in field. No doubt it is well to garner wisdom from the pages of the dim past-to read of the once glories of Greece, Rome and Carthage -to trace the full tide of liberty and national freedom through centuries back, even to the rugged wild whence it sprang ; yet no period can be laden with 2 deeper interest to us than nur own, and no greatness equal to that which envelopes our homes and lives, and breathes through the pages of Canadian history and Canadian literature a parriotic spirit, pure as the altar-flame of Canadian hearts. The Hon. the Minister of Educa. tion, with a wisdom which does him credit, has seen well to give the study of Canadian history a " local habitation and a name" in the High School curriculum. He has also recommended to Teachers' Reading Circles Parkman's "Wolle and Montcalm," a work beautifully written and of deep interest to every student of Canadian history. But could not a step further be taken by giving the subject of Canadian literature a place in the High School programame of studies? 1 make no doubt the want of this is what Dr. Hodgins means, when he says in his paper, "We fail to emphasize the school in developing patriotic national sentiment and high moral aspirations in youth." And in a ryder Dr. Hodgins remarks, "Canada is rich in historic memories: Parkman's works; Stone's Brant and Sir William Johnson; Ryerson's United Empire Loyalists; Details of the War of 18:2; Richardson's Wacousta, and Canadian Brothers; Mair's Tecumseh, and many other such works are full of historical and heroic incidents. If properly presented to the pupil on fitting occasions, they would exercise a powerful influence in promoting a good healthy national feeling throughout Canada." It is frequently said that Canada has no literature. Perhaps in the strict sense of the word it has not. Hut what, I ask, are you to do with the following writers, if you exclude them from a place in the circle of Canadian literature: In poctry, Reade, Roberts and Sangster ; in the domain
of fiction, Kirby and Lesperance; in Science, Logan, Bawson, Wilson, Bell, Selwyn and Sterry Hunt; as orators, publicists, easayists, and miscellaneous writers, McGee, Howe, Haliburton, Grant, Todd, Lindsey, Griffin, Stewart, l.eSueur and Rattras, Havethese men given nothing to the intellectual life of Canada, that is worthy of being called literature? Again, look at the French. Have they done nothing for the literature of Canada? llave they not enriched it with a grace and fertility that completely overahadows the linglish portion? Have not some among them won recognition in the land of Moliere, Corneills, and Victor Hugo? And yet pessimists assert that we have no !itera. ture in Canada. Every artery in the maple lenf is a tale, a legend and a poem. Granted, then, that Canada has a literature and a history, where, I ask, should these be taught? Undoubiedly in the schoolroom. One line from a Canadian poet, one spark from the fire of a Canadian orator, may kindle in the breast of the school-child a patriotic fiame bright as the shaft which crowns the Plains of Abraham, and pure as the rill that sing: its way to the sea. By all means, then, even should we offend against Greece, Rome and England, and forget to tell the tale of "The Ancient Marincr," let us teach Canadian history and Canadian literature in our schools.

Thomas O'hagan.

## ENGLISH SPELLING.

Mr. Lent's article in the Wefkly of April 22, deals with a very important matter. His contention, that we learn to spell through the medium of the eye is indisputably sound, and so is his criticism on the specimen question he gives in his article. If it is true that we learn to spell by the eye, then it follows (1) that so-called "oral-spell. ing " is comparatively useless as a method of teaching spelling, and (2) that the true way to ascertain whether a pupil can spell properly is to make him write down sentences, either as read to him or as composed by himself on some theme about which he can fairly be expected to know something. Writing from dictation is, when properly managed, one of the most useful of sciool exercises, as it can be made to serve a variely of purposes, some of which are even more valuable than learning to spell words correctly according to a needlessly irregular system of orthography.

Besides the form of examination question of which Mr. Lent gives a specimen, there is another that is far too common. The examiner gives a list of words, some of which are correctly spelt, the others being purposely misspelt, and the candidate is asked to write out the whole list correctly. I would
suggent that inatead of such questions as the above and the one referred to by Mr. Lent the examiner should give a list of common words correctily apelt, and ask the car. didate $s$ a show how the spelling might be improved phonetically, or philolugically, or both. Let us auppose the list, for example, to contain the words "island," "exceed," "resistance," "conceive," " believe," "aghast," and "philosopher." The forme, "iland," "excede," "resistenre," "can. ceve," " beleve," "agass," and "filosofer" are preferable both phonetically and philoIngically.

The " $s$ " in "island" is an intruder ; it does not occur in the old English word, which was variously spelt "iland," " yland," etc., but never "island." In all probability it was introduced by some would be philological reformer who thought the word had an elymological connection with the French "isle" (Irom the Latin "insula "), whereas it has no such relationship. As the "s" was put in by an ignoramus, scholars have a perfect right to throw it out.

From the Latin "cedere," we form, by dropping the "re," "aceede," "concede," "intercede," "precede," "recede," and "secede." From the same root we form, by doubling the radical " $e$," "exceed," "pro. ceed," and succeed." Obviously the former of these methods is philologically preferable, and the last three words should, for the sake of uniformity, be made to conform to the first six.

From "sistere" we form several nouns, " consistence," " subsistence," "insistence," "persistence," "resistance," all but the last of which retain the " $e$ " of the root. For the sake of uniformity, then, we should write "resistence," which, I may add, was the form in both Old English and Old French.

The Latin verb " capere" has by a process of phonetic lecay been corrupted into the French "cevoir," in which form it occurs in several French verbs "concevoir," "per. cevoir," "recevoir," etc. From these we have the corresponding English forms "conceive," "perceive," "receive," but in all cases " i " has been improperly inserted before the "v." As the intruding letter does not occur in either the original Latin root or the intermediate French form, and as it is phonetically useless and practically mischievous we should drop it.

In old English we find "beleve" and "beleeve," but never "believe." The first form is philologically correct and phonetically sufficient, and as dropping the " $i$ " would get sid of a troublesome orthographical difficuity it should be dropt.
"Agast " is the old English spelling, and the word was so spelt by Milton. The " $h$ " is philologically illegitimate, and is phonetically worse than useless,

Whatever the phonetic value of the Greek "phi" mas have been, it was not properly a double letter, and a single letter should have been ured as its equivalent in Latin. In both Italian and Spanish " $f$ " is now so used, and we should adopt the same prac. tice, as infact we do in the word "fancy." If "philosopher" is good spelling, then we should write "phancs." If usage be ap. pealed to then the obvious reply is that usage can be changed and that if we all afiree to write "filosofer" it will soon cease to look odd.
I might have given in the list words of a different class, such as "have," "definite," "people," "head," "heart," "though," all of which can be spelt nore phonetically without any philological loss, as "hav," "definit," "peple," "hed," "hart," "tho." In some cases the improved forms are actually those in use in old English, thus corroborating the statement made by Prof. Skeat in the introduction to his "Specimens of English Literature." Speaking of old Eng. lish spelling he says: " It is frequently far better than our modern spelling, and helps to show how badly we spell now, in spite of the uniformity introduced by printers for the sake of convenience. Old English spelling was conducted on an intelligible principle, whereas our modern spelling exhibits no principle at all, but merely illusitrates the inconvenience of separating symbols from sounds. The intelligible principle of old English spelling is that it was intended to be phonetic."
If orthngraphy were treated by both teacher and examiner in the way above outlined it would become a means of training the reasoning faculties instead of merely burdening the memory, and the coming reform of our curiously anomalous system of spelling words would beindefinitely hastened. The great neel is the removal of prejudice, and this is most easily done with the young. Every teacher shoula be a rational spelling reformer, and so should every examiner.

WM. Houston.

HOW AN ALPHABET IS DEVELOPED.
Surpose that some old nation of Asia, after having for ages drawn an ox when they wished to recall an ox, began at last to draw the picture of an ox also when it was needful to write about plowing. Then instead of an $0 x$ it wruld convey an idea relating to an ox, and would be what is called a symbol. After a while some one would say to himself. What is the use of drawing all of the ox when the head alone, which every one will know from its shape and its horns, gives just the same thought? Now suppose this oxhead gradually gets to mean the soumd of ox
in all words of the language wherein that syllable occurs, as in the name of the river Ox-us. Then the ox-head would appear in words having nothing whatever to do with cattle or plowing. Then it is called a piece of sundedriting, because it does not recall a certain given thing, but a sound. Sound. writing is thus an improved kind of picture. writing. You all know sound-writing, and have probably composed sestences in it, but you know it under another name. Hardly a magazine for young people is printed in which you will not find rebuses. Well, many rebuses are nothing but sound-writings. And many, many thousand years ago our ances. tors had no other kind of writing.

And the next step onward from sourdwriting was syllable-writing. Remember that people who had reached that stage thought of a sign or symbol as representing one syllable at the least. Suppose the oxhead was called aleph. It would soon be found more cunvenient to employ it in al words where there was the sound or syllable of 18 . And this was the process with as many other leticrs as there were in suck early writing. We will call this the syllabary stage, because signs stood for syllables, and so distinguish it from the alphabet that camo later.

The next advance woust be to take the little picture for the sound $a$ alone, and thus begin to use a real alphabet. - From" "Woniters of the Alphalict," by Henry Eckford, in St. Nicholas.

TuE Critic remarks: "That classical scholarship is making rapid advances in America, no one familiar with educational matters can doubt. The widespread opposition to the study of Greek and Latin has brought about a result far different from that anticipated by the opponents of the classics. Courses of study have indeed been broadened, and a larger choice of subjects has been placed before the studert; but the position of the classics as a means of cducation has in reality been strengthened. At the same time, the process of instruction has been revolutionized. The practical directness of method, so characteristic of the American life, has been app'ied to the teaching of the ancient languages, chus stimulating interest and producing better results in regard to both discipline of mind and general culture; while the familiarity of the younger generation of scholars with the work of the Germans has quickened the spirit of investigation and production. Thus it happens that at present more books having to do with the classics are being put forth in this country than ever before; and that in them there is revealed a broader and sounder scholarship, corresponding with the general improvement in methods of work."

## TORONTO:

## 'THURSDAY, MAY 6, 1886.

## CADITAL AND L.ABOUK.

## 1.

No apologies are needed for touching upon a fely of the problems connected with capital and labour in an educational periodical. Indeed, if we consider not only how greatly cducation influences the views we each severally take of such problems, but also how greatly education should influence any solution of such problems, an educational periodical may rightly be looked upon as a fit vehicle for the expression of opinion on all social questions.

A glance at the various remedies proposed shows at once how difficult, nay impossible, it is for many to view the relationships of labour and sapital in a wholly unbiassed light. Before us lie three very typical varitites of opinion: those expiessed by T. V. Powderley, General MasterWorkman of the Knights of Labour; by a writer in the Current; and by a writer in the Weck.

The first says:-
The workingman of the United States will soun realize that he possesses the power which kings once held- that he lins the right to manage his own affairs. The power of the king has passel away. The power of wealth has passed away. The evening shadows are closing in upon the day when immense private fortures can be acquired The new power dawning upon the world is that of the workingman to rule his own destinies. That power can no longer be kept from him.
The hours of habour must le reduced tbroughout the nation, so that the toilers may have mote time in which to learn the science of self-government.
The employer and employed must no longes stand apart. The harriers of pride, caste, greed, hatred, and bitterness mu-t be torn down.

This, of course, is the extreme view, and it reguires but a very few words to show how short-sighted and vague a view it is. For first, several millions of working.men, with different degrees of intelligence and different degrees of self-interest "possessing the power which kings once hold" is a idea that can only be held by those who know nothing of what they speak. Second, the proposition that the hours of labour should be reduced in order that the labourers may "learn the science of selfgovernment " scems to us to be too preposterous to need comment. And third, the suggestion that capital and labour are naturally antagonistic is, on the face of $i t$, an erroncous and mischievous one.

The Current takes a different view:-
It seems none 100 soon, it says, to so segulate the influx of fortign populations, that the United States should not be overrun by any criminal or
pauper expatimion that other nations might deem heneficial to shemselver, nor permit the purchase and nisurpuion ly fineigners or natives of such innmense tracts of lamis for non-resillents, as would " mat the inheritance of our posterity," nil evelriually exterminate the yeomanry of our land, the owners of moteralesized famms, the molerately skilled mechanic and leboures, from whose milist have atisen some of olir most prominent men.

As remedies in addition to the foreguing the Current suggests :-

Capitalists co operating wilh their workmen : stipulating first for if good, remunerative jeretnfare on their capital and for a fair salary to ofiset their skilled alministration or superimembence of the joint-stock n-sociation, finally permission to the workmen to elect their cien foremess in the dilfesent departinents, and the larger ratios of yemuneration going to skilled labour, the remainder of the profits tee epually devided; zecess to the lrooks and atcounts leing permitied th the formman, so that they may satisly the workmen as to the honisty of the whole tranmaction amd thus maintain mubual confidence. And a " ISoasd of Arbitration," selected either by the prople at lheir clections, authorized by the necessary lexislation, or in any other approved manner.

Even these proposals are weak in the extreme. What can bring about co-operation between emplojers and employed? Who shall say what is a "remunerative percentage" or a "fair salary"? What could pervent the election of dishonest foremen, and how could the ability of the foremen to understand the books be guaranteed? A just " Board of Abitration" no party or parties could "select."

The Weck takes the very opiosite view.

[^1]affairs, and what it is that will tend to cause the community as a whole to regad it in its most scrious light and to provide such means as shall prevent its continnance or recurrence. Education, we believe, is the pass-word. On thin we shall nave more to say in our next issue.

## BOONS RECTIVED.

Neforl of the Minisect of Education (Ontario) for oin Bear sSSS, with the Statistios of iSSt. Toronto: Warwick \& Suns, 26 \& 28 Frunt St., W. iss6.
Selctions from Latin Authors for Sight-R'ealing: lBy E. T. Tominson, Ilead Mnster of Rutgers College Grammar School. Hostron: Ginn ad Cu. 1586.237 pp . l'rice $\$ 1.10$.
Essays on Educationat Rieformers. By Rubert Herkert Quick, M.A., Trin. Coll. Cam., late Second Master in the Surrey County School, and formerly Curate of St. Mark's, Whitechapei. Reading Club Edition. Syracuse, N. Y.: C. W. Iisadeen, Publisher. 1886. 330 pr.
First Stefs in Latin: A Complete Course in Latin for one Year, Based on material Draters from Cresar's Commentaries, with Exercises for Sight-Ricading anil a Cowrse of Elementary Latink Reading. By K. F. Leighton, Ph.D. (Lips.), Author of Critical History of Cicero's Epitole all Familiaries, History of Rome, Latin Lessons, Greek Lesions, cte. Boston. Ginn \& Co. 1886. 507 pp. ['rice $\$ \mathbf{1 . 2 2}$.

REVIEIVS AND NOTICKS OF BOOKS.
Hints and Suggestions on School Atchituture and Hysiene, with Plans amd Illustrations. Prepared under the direction of the Honourable the Minister of Edlucation. By J. Gcorge Holgins, M.A., L.L.L., Deputy Minister. Toronto: Printed hy the Grip lrinting and Publishing Company for the Education Department. 1886.
This is the title of a handsome volume on the material side of school managemen:. We are apt in forming an idea of a school to conceive of it in the abstract as a gymnasium of the youthful mind, having neither necessarily position nor form. Every provision possible is mate to surround the chill with correct intellectual influences, and the iated appliances, physical and metaphysical, are eagerly adophed to further its mental tevelopment. All of us who have experienced some of the discumforts of a country schoolhouse of early days can lear witness to the countless discomforts and even dangers under which this development has been carried on. Much of this has doubtless been due to an illiberal and short-sighted policy on the part of trustecs and parents, and the rest, and that no small proportion, to the lack of any definite information on the scientific problens to be solved in constructing a schoul filted for the reception of delicate and tender children. Genesally a house is constructed of such dimensions that it will seat a certain number. Windows and doors are put in ; a stove is added and the school is complete. Fifty or one hundred pupils lreathe the same quamity of air as five or six persons in an ordinary
home. That is a point very little considered, and if conside:ed is eventually dropped as lecing lexyond the urdinaty capalilities of the Buast. No one is able to venture further than to theorize on the suliject, and as expreriment is always distasteful the school is generally buitt on the old lines and on the models of private houses.

Technical works on the subject of ventilation are scaree and not readily understool, and their principles are not directly applicable to the special building proposed. As a result it has leen found fon the authurity of the Provincial lloard of Health) that sixts per cent. of ous schools do not afford half the air space requisite, according to the highest authotitics, for the health of the pupils, and only eighi per cent, afford the mininum prescribet. Such a state of affairs in the single item of ventilation will give some idea of the neecssity for some practical treatise on school architecture. Let it'lec understood that this is not necessarily a reflection on the lack of furds to property construct the builling, but simply proves that the lest disposition has not been made of the resources available.

Beauty of design is a phrase which is never heard of in connection with school louildings out. side of our cities and larger towns; and yet is there not a lesson to be conveyed in bricks, stone and mortar that cannut be conveyed through other known channels?

Suggestions such as are contained in this bouk cannot, thercfore, fail to have a bencficial effect on the character of our educational buildings, and through them on the taste and refinement of the youth of the Province. It shows wherein we are farthest behind the older countries in matters eind-cational-in the design of our schools both as regards convenience and taste. It also gives practical hints sufficient to largely supply the remedy, giving as it does the best experience of the United Siates and England. it is a safe book. The author has no theorics of his own to urge upon his readers, but has collected a large mass of useful facts and pranciples that are the outcome of enlightencl experience in Europe and Americi.

The last two chapters contain many useful hints in regard to builders' sprecifications, and useful notes on the legal aspect of builders' contracts. One suggestion might be made while on these matters. A complete set of specifications with conditions altached, and form of ten.der, fur one of the smaller schools described (hat on page ro5,for example) would probably be of great value as models for rural school buards.

Dr. Ilodgim' worl: has already received many enconiums fron abroad. General Eaton, late United States Commissioner of Education, says: " You have done a most valuable service not only to Ontario but to the United States, on the subject of school hygiene in jour work on "School Architecture, etc. ${ }^{\circ} "$

And the l'resident of the Christian Brothers' College, Menphis, says: " 1 know of no more emphatic way in which I can bear testimony to the value of your 'School drchitecture and Hygiene,' than to say that I would feel profoundly grateful for at least cighteen or twenty four copics of the work for distribution among, our Provincials and Superiors. Its val: = cannot be estimated in dollars and cents."
J. McD.

Anstrex'stranslation ofGoclhe's Fanst is the first fortnightly volume in Roultedge's World Lilorary, clited by the Rev. II. R. Itaweis. and pullished at $\$ 2.60$ a ycar.
"As a study of characters for the nlost part cominonplace, in circumstances just sufficiently abnomal to be interestinn, the look could bardly be lecter," says 7hr athenicmm of "Indian Sunmer."

Mr. Browning has written about two-thinds of his new poem, which will fill a volume by itself, and may be ready lefore the autumn. He has promised to be present at the Shelles Sociuty's first performance of "The Cenci," on the afternoon of his seventy fourth bitithay, May 7 lh .
"Otilela.o," the sixth volume of Mr. II. 11. Furness's Variorum Shakespeare, will soon be issued by Messrs. J. B. wippincott Co. The text adopted is that of the First Folio, repuinter with the uthost exactitude, the various readings ef all other critical editions treing recotled in the nutes.
G. I'. Putman's sons have in preparation a series to be entitied the "Boys and Girls' Library of American Biographies, in which the follow: :- ; rolumes are announced: "Robert Fulton and the History of Steam Navigation," by Thomas W. Knox; "Abraham Lincoln" by Noah Mrooks: "George Washington" liy Edward Everett Haie.

Ther announcements of Henry Holt \& Co. include the second volume of Doyle's "English Culonies in America," and of Fyfe's "Inistory of Modern Eirope," respectively; "A Cyclopedia of Treek and Latin Literaure," by Thomas Sergeant Petry; and "Whom Geil Ilath Joined," a novel by Mrs. Elizabeth G. Martin, reprinted frm The Catholic World.

New looks to ie published by the Putnams are, "The Political History of Canada," loy Goldwin Smith ; "The Grecks of to-day;" by,Charles K. Tuckerman; " Documents Illustrative of American History, 1606 1863," edited by Howard W. Preston; and " Ifistory of the United States from 1840 down to the close of $1855,{ }^{\prime \prime}$ hy Pror. Alexander Johnston.
To the cxeellent and rapidly growing series of "The World's Workers" (Crissell \& Co.) is nuw adied a "I.ife of General Gorton," by Rev. S. A Swaine, who sketches the singular career of the hero-martyr from a Christian stanipoint, and particularly for the lenefit of the groung. Such a life, in many of its striking details, cannot be too often presented as an inspiration and encouragement to a noble manhood. Mr. Swaine dues his sulject s.ant justice, not from any lack of appreciation, but from a constitutional inability to 1 ?ntray many thrilling - -enes which might be made to glow under a more enthusiastic touch. l'et even with this shortcoming, the narrative must serve a grod pirpose. - The Critic.
In Bohn's Standard Library has been published Coleridge's "Miscellanies, Wstuetic and Literary," to which is added "The Theory of Lile." The volume is collected and arranged by T. Ashe, and sold in New York by Scribner \& Welford. It brings together a variety of scattered essays, notes and articles, including some pieces not hitherto collected, and various marginalia never before printed. It includes the essays on the prin-
ciples of smund criticism concerning the fine arts, the essay entilled "On l'oesy or Art," fragments uf essays on taste and leenuty, and and cssay on the "I'rometheus" of fischylus. Then follows the notes on the lectures, and the marginalia, the vol une concluting with "The Theory of Life." Those nho know Mr. Ashe's "Colecilige's I.cetures on Shakespease, ete." will feel confident that lhey will find in this admirer of perhaps the gratest English expounder of Shakespeare an admizabie cditor of "olercuge's miscellancous works.

Whidams Shepardis: "Enchiridion of Criticism" (J. B. Lippincott Co.) aims to present the judgments of the best critics up $n$ the best authors of the Sineteenth Century, it is somewhat on the plan of Clark Russell's " liook of Authors," though not so full nor covering so large a fiedt. The caticisms vary in length from one line"Glorious Chrivopher North"-to nine pagesHannay'sestimale of Thackeray-and in tone from Hawhorne's " most unkindest cul" - " Bulwer nauseates me; he is the very pimple of the age's huambug ; there is no hope of the public so long as he retains a reader, an admircr, or a publis!cer "to Slathew Arnold's mellifluous averment that "No one else in Einglish poetry, save Shakspeare, has in expression quite the fascinating felicity of Keats, his perfection of loveliness. There is an index of the seventy-four authors criticised, but nune of the writers quoted. The volume is, unintentionally perhaps, a satisfactory refutation of Disraeli's dictum that a critic is one who has failed in original composition.-The Critic,

Tuse Literary World's criticism of Mr. Swin. burne's "Victor :Iugo" is trenchant and wellexpressed. "In this ecstatic volunne," it says, "on the work of Victor Hugo and ' La Lésemile des Siectes ' Mr. Swinburne has apparently endeavoured to reduce culogy to the palpably alisurd. In the short space of the first four pages we are told that llugo was 'the greatest Frenchman of all time-the greatest poet of this cenitury-atiove all other apostles of spiritual life the one leent deserving to be called the son of consolation,' that 'we know of no such great poet so good, of no such good man so great in gerius,' that Hugo was 'the most multiform and many-sided genius that ever wrought in prose or verse,' and so on ad was. scam. These introductory pages leave one cunvinced that even such a language-slinger as Mr . Swinburne must be exhausted of rapture befure thing, and le olbliged to use a few sober words out of shecr necessity. But it is not so. The Swin. burnian furce-pump plays a full stream to the end. There is no commonplace poem of IIugo's which is not pronouncel to le unequalled by any other verse in the literalure. If anj one is so unfortunate as to peruse the whole of this incessant gush, let him tu:n to Amiel's journal, and learn what a true critic of the first order thinks of this god of Mr. Swinturne's idolatry: ' Proportion and fairness will never be amon! the strings al his command. His goll is always mixed with leau, his insight with childishness, his reason with madness. . . There is always some falsity of note in nim. The great poet in him cannot shake of the charlatan. Thisisdiscrimination and just judgment ; Mr. Swinburne's work is the product of a hypertrophical organ of language.

## Practical Art.

THE ADI'ANTAGES AND AIMS OF DKAWING TAUGITT IN PUBLIC SCHOOLS.

A laper ient at the liteting of the Limpston and Co. o' Forntenac Tiachers Assoxiations.
Tue question has often been asked, and doubtless by those who considered that they had viewed the matter consisteutly from all its standpoints: Of what present benefit is drawing to those attending the public schools; and what is the probability of its utility to them in after life? To such my remarks are particularly addressed, as I am desirous of removing a vers general impression that, while a most pleasing and intellectual pastime for those possessed of wealth, it is almost, it not entirely, useless to those who have unly a life of labour and soil to ico: forward to. There are those whe allow that in exceptional cases it may be of advantage to those possessed of talent sufficient to allow of their taking proninent place in art, but who consider that the time devoted to drawing in pubiic schools might more advantageously be employed in the study of other lessons. In answer to these questions, I would peint out a few of the many advantages to be derived from the study of drawing, systematically taught. While graming that all may not hope to attain a desirable proficiency, there is no reasor: why all should not advance beyond mediocrity. We teach all to write, and ex-pect-and find in nearly every case-lair progress and sufficient advancement to meet the requirements of ordinary occupations: but do not expect, nor do we find, except in an occasional case, professional or orname tal penmen. Why, then, look for more in drawing?

I have referred to drawing as systematically taught, and this point touches more closely the teacher than the pupit. In the present day we incline so system in almost everything, and successfully so; and certainly, so far as regards drawing, system has made many strides in adiance of the :ityle pursued by ous ancestors-and while deprecating their style of teaching, I would not wish to be understoud as saying anything derogatory to the great lights of art in past gencrations; my remarks merely apply to teaching.

In the English language the word talent is generally understood to represent genius, a hidden power, lying dormant, requiring only the magic touch of the mstructor to blaze forth in full effulgence. The French use the same word in a different sense, for to them talent is the power gained by hard work, close application, and conscientious study-the ability being merely the result;
and while talent or genius is of great assistance to all, I witid devire to advocate that talent or ability gained hy hard work, which is sure to lead to the best results; for it assists genius in restraining the ideas which would otherwise brow in wild profusion, cultivating and training them as a gardener would the flower or tree under his charge, bringing it to the greatest possible perfection. More particularly is this restraint necessary in the present day, when the tendency is to great haste in art, as in other studies. He who weuld succeed must hasten deliberately; always striving to do his best, convinced that it is only of secondary im. portance to consider the time spent, as long as the object is obtained. To do thoroughly whatever is done, is by far the most essential point. In this manner both artists and writers who have attained the highest steps in the ladder of fame, have bent their neck to the joke, no matter what amount of natural ability they gossessed. Therefore, in drawing we must commence with the lowest rounds in the ladder, in the primary school; and gradually, as in all other studies, work upwards, so that by the time the pupil (having passed through the several grades) leaves the school he will have gained sufficient knowledge in art to be of practical use to him in after life; for it will be hard to find any position in life in which a trained acquaintance with Industrial Art will not be of benefit. In using the term Industrial Art, I intend only to apply it as suitable to my present subject (for it covers a wide field, and would encroach too much on the time at our disposal), conveying to our minds the idea of reccaciliation between the two aims of industry and art, namely, utility and beauty. They are joined logether, as the mind and body in man; only perfect when in complete unity. In application, therefore, the man who handles the chisel or brush labours, according to his rank, from artisan to artist.

The mere handicraftsman makes a chair to sit in, a bed to lie on, or a house to live in; in fact, gives us what, as material beings, we must have in order to live according to the manner in which we have been educated, which may be of a very low order: on the other hand, the skilied artizan (as his name implies) introduces into his work a higher element-makes the chair, the bed, or the house more shapely and pleasing-weds beauty to uility. He gives us a cup which will not only hold water but is in itself $x$ thing of beauty, and which has value irrespective of its use ; and therefore for this reason tasic and a knowledge of art have, in all civilized countries become the first conditions of their industry, and the most potent factor of their wealth.

Here let me ask if the average citizen would not willingly exchangez portion of his
knowiedge concerning the interior of Africa for the ability to draw the plan of a house, or proauce the necessary design for some article of furniture he is desirous of havint constructed? and this alone I consider sufficient reason why we chould curtail the time spent on less essential studies, and devote the time thus saved to the acquisition of so desirable an accomplishment. In teaching drawing it should be borne in mind that the pupil inust not be wearied by being kept too long over mere geometric forms, and hard, stiff outlines. Such a course only tends to destroy all interest in the work, and interest is at all times essential to satisfactory progress ; but should be taught the more difficult lines, curves, and their combinations, using them for the purposes of esign. Outline drawing is of the greatest importance, and cannot be too mnch insisted on in the more advanced classes; for it teaches the practical use of all curves and combinations, in addition to giving freedom with the penc:l, and a knowledge of how to transfer proportions correctly, that can never be gained by a pupil who devotes his time to tec.hnical or geometric furms. In all cases it is advisable for the pupil to use a soft pencil, but particularly so in his earliest efforts (Faber's hexagonal " $F$ " being the one most suitable), for it is much easier to remove any mistake that may have been made, and also cultivates greater freedom in the trawing, the tendency being, when a hard pencil is used, to labour too carefully over the work, causing it to appear stiff, and bearing no favourable comparison with that produced with 2 soft pencil and freedom of hand. Every form has a meaning, and this is particularly evidenced by the outlines traced by a master hand, which, though slight, bespeak to all the thoughts which directed it, with anmistakable clearness, to people of every nation and of every clime; while the finest colour ever mixed on the palette of a Titian, unless circumscribed by lines, cau convey no definite idea to the mind. Drawing is practically useful to-all, for it teaches them to observe, quickens the perceptive faculties, and increases the power of the eye, and is the one language which mankind have retained in common; and thrice armed is he who can use his pencil to illustrate, as well as pen and tongue to describe, whatever of interest he may have seen in his travels through foreign lands: and of the three there is no question which is the most effective, for though he may talk and read to his friends for hours on his return home, when gathered in the social circle, yet it is to his sketch-book he turns if he would make them fully realize the aspect of some striking scene in nature, or bring it back vividly to his own mind: and as he may in after years in solitude turn over the leaves of his sisetch-book, how many a forgotten incident comes back 20 him , recalled by the lines traced long agc. But,
if knowledge of drawing is essential to the artist as well as to the traveller, how much more is it of inestimable value to the artizan or mechanic, for it raises him from the mere machine, following in the path laid cut for him, to the master mind, with power to create and carry out new ideas new thoughts, and new aspirations. In fact the correct answer to the question, "What is the proper definition of a skilled artisan ?" would be. "A mechanic who knows how to draw, and thanks to such knowledge, has quadrupled the value of his labour to himself and to his country." The close con' ection between general excellence of the workmanship in the mechanical trades, and scientific education of artisans, make it most desirable that it should be taught in a practical and thorough manner, both for their own sakes and for the community at large.

Ottava. Henkr W. Poor, A.m.

## Mathematics.

## A CURIOUS CASE IN TRIANGLES.

Euclid tells us that triangles on the same base and between the same parallels are cqual in area. The proof of this arithnetically, is one of the most abstruse problems 1 have ever tried. In the triangle whose sides are $3,4,5$, if we take 4 as base we should get two rational sides other than 3 and 5 that will give 6 as area. The distance between the parallels must be 3, the perpendicular. I have raised a Diophantine formula, but I was two weeks over it. It appears that if the three sides and area are all rational, arother set of rational numbers can be found. I should like to see what action readers will take on this.

Johs Ireland, Fergus.

## PRORLEMS IN HYDROSTATICS.

Noty.-The following problems are selected from various sources. In most cases a knowledge of Hamblin Smith's Hydrostatics is sufficient for their solution. The following rule, not given by H. Smith, is often of service. The whole pressure on any area inunersed equals the weight of a column of liquid which has that arca for base; and the depth of its centre of gravity below the surface of the liquid for height.

1. 1000 cubic certimetres of gas whose density is 12 , are mixed with 2000 cubic cenimetres of a gas whose density is 16 , and the volume of the mixture is diminished by a third. liequired the density of the mixture.
2. Find the presiure on a verticle rectangle 10 inches long and 6 inches broad, immersed in wates with its longer sides horizontal, and with the upper one two inches below the surface.
3. A watch chain which weighs $2 \infty$ grains in air weighs only 1 S 4.7 grains in water. Find the satio of the volumes of hrass and gold in it, the sy. gr. of brass bcing 7.S, and of gold 19.3.
4. A piece of cork weighs $\%$ oz in air; a piece of metal weighing 6 sunces in air and $3 \frac{1}{2}$ ounces in water is attached to it , and the two together weigh iwo ounces in water. What is the sp. gr. of the cork?
5. The pressure at the bottom of a well is four times that at the depth of two feet; what is the depth of the well if the pressure of the atmos. phere is equivalent to 30 leet of water?
G. A piece of iron, sj. gr. 7.2i, and weighing 360.5 rams, is tied to a piece of wood weighing 300 grams, and the weight of both in water is 110.5 grams. What is the sp. gr. of the woovl?
6. A piece of cork floats in a basin of water, and the basin is placed under the receiver of an air pump. A quantity of the air in the receiver is pumped out; and the cork sinks lower in the water. Why ?
7. A cylindrical diving bell 9 feet high is to be sunk to the bed of a river 40 feet deep; find the height to which the water will rise within it.
8. If the volume of the receiver of an air pump) be eight times that of the barrel, compare the density of the air after the third stroke with its original density.
9. The sp. gr. of mercury is 13.6 , and the height of the mercurial barometer is 30 inches. What is the greatest height to which water can be raised by means of the common pump?
10. A vessel in the shape of a pyramid five feet high, with a base four feet square, is filled with water. What is the pressure on the base?
11. A piece of copper sulphate weighs three ounces in air, and 1.36 ounces in turpentine of sp. gr. .S3. What is the sp. gr. of copper sulphate?
12. A body weighs 2300 grains in air, and 1100 grains in water, and 1300 grains in spirit. What is its Sp. gr.?
13. A diamond ring weighs 65 grains in air and 60 grains in wat $x$. Find the weight of diamond in the ring, the sp. gr. of gold being $17 \%$, and of diamond $3 \%$.
14. To what depth may a closed empty glass vessel capable of sustaining a pressure of 200 lhs. to the square inch be sunk in water lefore it breales?
15. If a man whose toody has a surface of 15 square fect, dives into the water to the depits of 20 fect, what pressure does his boty sustain?

ANSWERS. 1.-22. 2.-173ỉ O2. 3.-9529: So66. 4.-年. 5.-is fect-6.-咅. S.-4. 66 fect. 9.-512:729. 10.—34 fect. 11.-5000 lis.
 inches. $16 .-18750 \mathrm{ll} \mathrm{s}$. A. M. ı.

## SOLUTIONS to finst class " A" AND" ${ }^{\prime \prime}$ "ALGESRA "APERS FOR ISS5.

No. 9.-Sccond part.*
If two determinints $\Delta$ and $\Delta^{\prime}$ of the mih degree be such that the first row of the one is the same as the last row of the other, the second row of the one the same as the ( $n-1$ ith row of the other, the third row of the one the same 25 the ( $n-2$ )ith row of the other, anid so 0 , then will.

$$
\Delta=(-1)^{\frac{1}{n} n(n-1)} \Delta
$$

Proof.-In order to change $\Delta$ into $\Delta$ we must have $(z-1)+(n-2)+(y-3)+\ldots+i$ inice. change of columns.
-This problen was onitted in Mitr. Fergusonis MS.

Now the sum of $1+2+3+4+\ldots \ldots+$ (n-1)

$$
\begin{aligned}
& =\frac{(n-1)}{2}\{2+(n-1-1)\} \\
& =n-1+\frac{(n-1)(n-2)}{2} \\
& =\frac{1}{2} n(n-1)
\end{aligned}
$$

Now at each interchange we obtain a new determinant, the same as the original determinant, except that he sign of the determinant is altered at each interchange, and we have shown that $\underline{1} n(12-i)$ represents the number of interchanges,
$\therefore \Delta=(-1)^{\frac{1}{2} n(n-1)} \Delta^{\prime}$.
No. 11.-In how many orders can mpositive units and $\%$ negative units be arranged so that the sum to any number of terms may never be negative ( $m>n$ ).
legin with a prositive unit. Then we have, $r$ inseparable pairs, each consiting of a positive unit followed by a negative unit, and $n-n$ single positive units lesides.

We have to find the number of permutations of $m$ things all together of which $n$ are of one kind and $n-3$ of another.

The number of these is


If $:$ be cien we can also arrange them in groups of four, each group) consisting of iwo posilive units followed by two negative units, and we have $m-n$ single positive untits licsides.
Then we have $m-\frac{72}{2}$ things to permutate, of which $\frac{n}{2}$ are of one kind and $m-n$ of arother.
The number of inese is

$\therefore$ if $n$ be even the whole number is

(TO be continncal.)

Tue entrance examination to the Smith's Falls ligh School will lic held on July the 5th, Gth and jth. Candidates intending to write at this time should apply to the headinaster, Mr. Robertion, al once, who will give them all ithe information required.

## Methods and Illustrations

## DIFFICULT WORDS FOR PRO. NUNCIATION.

Tue following list of words is intended for teachers preparing pupils for the Entrance Examination:-

| error | receipt |
| :---: | :---: |
| volatile | were |
| pumpkin | associate |
| saith | nominative |
| preface | Cairo |
| contrary | Hughenden |
| says | croquet |
| allv | moustache |
| discern | Tel el Kehir |
| imbecile | intrigue |
| desist | futile |
| destine | soften |
| bonnet | advertisement |
| arctic | Ajaccio |
| anxiety | donkey |
| chasten | dromedary |
| Avignon | irrelragable |
| often | admirable |
| iron | orthoüpy |
| mountain | Skager Kack |
| nothing | zenith |
| apparent | cleanly |
| florist | consummate |
| alias | deaf |
| been | tortoise |
| blackguard | conversant |
| forchead | exemplary |
| archipelago | deficit |
| miasma | recess |
| another | pnotographer |
| defalcate | telegrapher |
| acquiesce | yacht |
| calm | indisputable |
| disaster | opponent |
| municipal | ennui |
| porirait | cacore |
| fertile | peremptory |
| disdain | finance |
| category | medicinal |
| column | towards |
| canal | accessory |
| feminine | despicable |
| cowardice | sergcant |
| bouquet | colonel |
| Portage la Prairic | precedent |
| mischicvous | indict |
| recine | paroxysm |

A. N. 11.
[To these we might add:-

| inveigle | inexplicable |
| :--- | :--- |
| harass | matlress |
| Lospitable | fanatic |
| advertisement | capitalist |
| esoteric | vagary |
| Uraguay | hortative |
| import (substantive) | putative |

## WORK IN EIVGLISH.

Is "Quincy Methods" are given some "Guessing and Thinking Games," and "Conversation Lessons" of a character admirably suitable for arousing the child. mind to vigorous thinking, which should precede the attempts at expression. Their language, fituing and forcible, becomes a matter of easy, pleasurable attainment. In many of the so-called "Language Lessons" I have examined, this vital necessity is too much ignored. Wate the chilh think, and hic cuill talk; make hiont think and talk amd he will writc.
the thling hesson.
Little folks, what did you see as you came to school this morning ?

Did anyone see anything that could fly?
Each one may choose a bird, abiut which lie will tell me. SEach fupill rises, shands crect and speaks distinctly. Sec how niccly vou can do it, says the teacher wuith a smile frall of lowe for the little soits.
llerman, what do birds do?
Joe, what do they say?
What do they eat, Mary?
What do they wear, Lizzie?
Who cantell me of what uses they are to us? Answers to this will be poured in, but the teacher must imrress the children that a great use is yet to be discovered; the people at home will be brought into use to aid the child in its search for knowledge.
the micture.
What is this boy doing ?
What has he in his hand?
Tell us of everything you can see in the picture.

Where was al.e boy going?
Look at the picture, copy the following, puting the right words in the blanks.
Frank has a little - in his - Frank found it near a -. In the tree was a -. The writing.
Write answers:
Where did Frank put the bird?
What did the bird do every day?
The children will write:
lirank put the bird in his cage.
The bird sand every day.
Note how these seniences differ. Such exercises will aid in teaching the use of capi:als and interrogation points. Now is the time in excrcise in comma using also. As busy work, the children will take intense deligita in drawing pictures of any bird you may show them, or in making sentences or sturies abou: it. Get large pictures from the illustrated Toy lbooks, or from lirang's Scrics.
liefore sending the children home, be sure to ask them to watch for birds and report at the exercise to-morrow. Many a lithe eye will be open to learn from these singers of the grove and hedge; intomany a linle soul will sink many melodies that through all
time will draw it into those depths of nature where it is an education to breathe, and immortality to live.

> THE TALKING.

Whom do you see in the picture?. Where are they? What are their names? What is Prank seeing? What did you see, Bennic, as you came to school this morning? So with Sammie, Lizzie, etc. Now for enthusiastic outpourings, in good, strong language, of the divine inpourings from nature's hand.

THE MEAHINC.
After this has been finished, it will be well for all, if the teacher will conclude by telling some bird story adapted to suit, stopping and writing words on the baard for the childsen to pronounce. On the morrow, the children will find all these words elegantly written on the board for use in reproducing the stury, both by tongue and pencil.

## GENERAI. I.ESSON.

The time set apart for general work can be used by talking about the ways of the birds, where they build their nests, when, how, and why they build them? What do they put in them? One day when I was in the woods, says the teacher. I heard a very strange-teacher writes on toard, children utter, noise-it seemed as if a great manyteacher writes, children utter, birds, were very much scared and troubled. I looked around and soon saw a great crowd ofteacher writes, children utter-wrens, who were darting at something on a-teacher writes, children utter, tree. Ilooked closer and saw a large-teacher writes, children unter, snake-that was slowly crawling up to eat the little wrens in the cosy little nest. Now, children, you would not like it if you were to go home and find no home; find that some mighty giant had carried it away to put in his ho-se for his chaldren to play with. So, I think the bird-children would not be very much pleased if you were to bring me their home to-morrow. Hut I think you can find me some homes they have deseried and are no logger used. It will do no harm to bring me these. How many will we have to look at to-morrow? 1 wish you to think why they Ieft these homes? Do all birds live in such places? Let the children to their work axd tue :vill be aoing our auork, teathers.

The nests and no:es of our bird-friends will be the subjects of lesson to-morrow.

THE mCTURE

1. Write five storics about the picture, using one of the following words in each story : bisdic, bills, wings, worms, sing.

2 Copy the following sentences, inserting is or are as is proper:

A mother bird - will her children.
The children - giad to sec her.
The teacher will find such a work profitable.
3. Look at the picture; think- Tell me what you have thought.
4. All go to sleep, dream you are birds.

Wake up!
What kind of a bird are you, Charley?
What did you do?
Where did you go?
How did you feel?
What did you say?
This exercise will prepare for some delightful studies about the kinds of birds, leading the children to begin early in training themselves to draw from nature her life-giving nutriment, and finally to excel in the high art of description. - The Southwest. ern fournal of Eiducation.

## Table Talk.

## THE MIATCHMAKERS EUCLHD.

## intronuction.

Thes ant of match-making and cldest-son hunting having been long since reduced to a science by the mammas o. rashionable life, it has been thought desizable to embody the same in writing for the benefit of posterity; and in accomplishing this task the method of Euclid has been followed, buth as one which will be universally understood, and as showing more clearls than any other the connection between the successive steps of the science.

## DEFI:ITIONS.

1. An undesirable partner is one who has no town-house, and whase income has no magnituic.
2. A doubfinl partner is a title without wealth.
3. The extremities of a ball-room are the best to firt in.
4. A bad business is the plain inclination of two young people to one another, who meet together, but are not in the same circle.
5. When one fair maiden "sits on" another fair maiden (for "outrageous finting") so as to make the adjacent company notice her, each of the listeners will call it jealousy, and the fair maiden who sits on the other fair maiden will be called " 100 particular" by them.
6. An oltuse angler is one who does not hrok an eldest son.
7. An acute angler is one who does hook an cldest son.
S. A ierm of endenament is the extremity of a firtation.
8. A bluc stocking is a plain figure having one decided line which is called her crudition, and is such that when forming the centre of a circle all young men will be found equally distant from that centre.

1a. A figure is that which is compressed by a more or icss confined loundary.
11. A good figure is that compressel within an inch of the owner's life.
12. Dull partners are such as, being drawn out cect so well in all directions, de not talk.

## vOSTUIATES:

I-ct it be grantel-

1. That an eligible young man may le drawn liy skilful management from any one young laty to any other young lady.
2. That an engagement for one dance may be prolonged to any number of dances by a few fils.
3. That a visiting circle may be extended to any extent from a west- end square, and may be made to include a maryuis at any distance from that square.

## ANIOMS.

1. If your daughter be married to noboly the match is unecjual.
2. If your daughter be married to a duke, the match is equal.
3. Eilder sons are preferable to younger sons.
4. If wealth be added to younger sons, the two are equal.
5. If wealth be taken from elder sons the two are equal.
6. Two short lines may enclose a proposal.
7. If one young lady meet with too much atiention, so as to make the inferior angels on either side of her equal to tear her eyes out; this conduct, if continuaily repeated, shall at length mect with such reprobation at the hands of the said angels as shall lead one to believe that they are not quite angels.

## 1.kol'OSITION 1. <br> Froblem.

To secure an aristocratic partner ly the help of a given (finite) number of charms.

Let a talent for dancing $A$, and a pair of fine cyes 1 , the the given finite number of charms. Let D be the aristocratic partner.

It is reyuired to secure 1) with Als.
liring 13 to beat on an old gentleman $C$, whom you know to be acquainted with 1). Tell the decided fil) $E$ that you are not engaged for this dance. Then, since the decided fiblis is equal to a very broad hint, if the aristocratic partner $D$ pass by at that moment, he will be introduced.

Then with your captive $D$, and to the tune of the last waitz out, describe the circle of the room, and it at any point of the dance you meet the genileman $G$, to whom you are reaily engared, consoling himself with a new partner 11 , let that be the point when the dancers cut one another.

Then since it has been shown that your fine eyes $B$ have hatl a great effect on the old genileman $C$, much greater will be their eflect on $D$ : and with your charms All you will have secured an aristocratic partner 1 .

Wherefore, ctc.
Q. 1: I:
-A. N1. Hleatheote, in Konsman's Mfayrzeine.

## Educational Intelligence.

Mk. Joselith McL,ans has secured the Lymn Vallcy School.

A Sumaner College of Languages is to ire opened by Irof. L. A. Stïger, of St. Louis, at the University of Vermont, IJurlington, July 12.

Min. Wm. Moone, IB.A., of Perth, has leen engaged as second assistant in the Smith's Falls Hligh Schonl, in the place of Mr. Ferijer, recigned. The hoard has no doabl zecured a competent man in the alwuve appuintment, as Mr. Moore comes highly recommended from places where he has taught liefore. The high school is in a fourishing conclition under its yresent staff of teachers. -Smitit's Falls Insiciendient.

## TEACHERS' COURSE OF READING.

We give public:ation to the following :-
to the trachers of north hastings.

## Ladmes and Grindibmen:-

The Committee appointedat the last meeting of our Teachers' Association, to arrange a Course of lieading for the teachers of the Inspuectorate, have given the mattei their careful attention and recommend,

1. That the Course le extended over the term ending with the autumn meeting of the Associa. tion in isS.
2. That the Course consist of the following works, viz. :--Sully's "P'sychology," or Hopkins" "Outline Study of Man,' I'ayne's "I.ectures on the Science and Art of liducation," Parker's "Talks on Tesching," and lsuckley's" The liairy Land of Science."
3. That, as far as possible, the professional books be read in the order given.
4. That teachers who have First or Second Class (professional or non-professional) Certificates read Sully's " P'sychology" and that the remainder read Iopkins" "Outline."
5. That teachers be urged to form, for the reading and study of the Course, local Reading Circles, having, at leas:, monthly meetings.

Arrangements have been made to furnish some of the books at the following reduced rates, which include posta:se, but not Custom duties: Scully's "I'sychology" (an edition specially edited for licading Circles), \$1; Payne's "Leectures on the Science and Art of Education." 65 cents ; Yarker's "Talks on Teaching," S5 cents. Orders for these should be sent to one of the undersigned. Hopkins" "Outline Study of Man" (\$1.25), and "The Fairy Land oi Science" can be procured through any bookseller.

Teachers who purpose reading the Course are reguested to inform the Inspector of their determination at an early date. At the next convention steps will, we hope, be taken to present, at the fall convention of IS86, certificates to all who have completed the Course.

With the hope that few of the teachers of North Hastings will fail to act upon the suggestion: made in this circular, we remain,

Your obedient scrvants,
W. Mackintoshi.

President, N.H.7:A.
D. Maksidnili, Scirclary, N.IT.T.A.
Madoc, Afril 24ih, $18 S 6$.

Tuf. following is anextract from the Minutes of the Teachers' Convention held at lecterboro' on 12 ult.: Moved hy Dr. Tasse, scoonded luy Mis. leoney. That the thanks of the teachers of the town and county of Peterboro' are duc, and hereby givea to the IIon. G. W. Koss, Minister of Eilucation, for the judgment shown in the selection of Scripture lessons, to be usel in the high and public schools of the country, and that a copy of this resolution ice sent for publication to the Mfait, Globc, and to the various educational journals of the Province.-Carricd.
K. MaRK.

Scc. Teaclicts' Assoc., Peietbori:.

## Promotion Examinations.

EAST MIDDIESEX.<br>AJRIL, ISSo. JRAWING.

1. Draw (a) eight parallel horizontal lines one inch long; and (i) an equitateral triangle with the base to the leff, and over it another equilateral triangle with equal base to the right.
2. Dictation drawing :
(a) Draw a square, side one inch; draw its diagonals, trisect them; through the points of trisection draw lines to form a square.
(b) On each outside of the first square draw another square; join the upper right hand angle of the top square with the lower left hand angle of the left square ; similarly join all other opposite angles of outside squares; complete each as in the middle square.
3. (a) Print "The Ontario Readers" from the front cover of your reading book.
(i) Copy the shield and crown on the back cover of your seading.book.
(c) Stand your book, open about two inches, on its end on the floor, with the front ${ }^{\cdots} \cdots r$ towards you and make a drawing of it.
4. Draw to a scale of one foot to au .ch, a window sash $1 \%$ inches deepion top, on other sides 3 inches deep, containing two panes cach 18 in. by 39 in . (No value for this unless drawn to the scale.)

## GEOGRAPIY.

thind ro foukth class.
I.imit of Work-Second Class. -Local geography, map of the school grounds. Definitions of the chicf divisions of land and water. Talks and stories about animals, phants, people, air, sun, moon, and shape of the earth. Pointing out oceans and continents on the map of the world.
Third Class. - Definitions continued; first accurate knowledge, then the memorizing of the definition. The great countries, large cities, and most prominent physical features on the map of the world. Maps of the Counly of Middiesex, Ontario, Canada, America. Map drawing. Motions of the earth, seasons, zones.
3. What name is given to the people of this country? What is the name of their la aguage? What (in one word), is their religion ?
2. What is the chief occupation of the people of this province? Name four commodities of which they produce more than enough for their own usc.
3. Draw a mapy of the township in which you live, marking any railways that run through it, and locating the villages and towns in it. LIf you live in a village or town take the township in which it is situated.)
State the precise boundaries of the township.
4. Show how a person may travel by zail from Chatham to Stratford. As he procecds tell what counties he travels through, and what towns and citics the passes.
5. Name in order the five counties crossed by a straight line drawn from Sarnia to Ifamilton.
6. Draw the main line of the Canada Pacific Railway from Ottawa to the Pacific Occan. Mark
the provinces, a mountain range, and four cities or towns on that part of the line.
7. State the position and capital of Maine, Florida, Michigan and Califonia.
8. What and whers are Montreal, Fundy, Fraser, Panama, Orkney, Gilıraltar, Bosphorous, Burmah, Van Diemen's L.and, and Kamtschatka.
9. Define and applying the detintions give two examples, one on the Western the other on the Easterr Ilemisphere : strait, volcano, cape.

## GRAMMAR.

THEN TO FOURTII C.ASS.
Limit of Work. - l'arts of speech. Inflections. Analysis of simple sentences as far as subject, enlargements of subject, verl, objective complements, adverbial complements. Cerrection of errors. Definition should always succeed accurate knowledge or the thing defined.

1. What words are understood in the following sentences: (One marh for each word supplied.)
(a) Hease lend me your book.
(i) He is not so clever as you.
(c) John likes me better than him.
(d) Kate likes me better than she.
2. Write the following sentence, introducing the changes required: I am teaching Charles to add his sum.

Change (a) the subject into the plural.
(b) the verb into the past tense.
(c) "Charles" into the corresponding feminine form.
(d) "his" to suit the change in (c).
(c) sum into the plumal.
3. "Who will help me to learn my spelling lesson?"
(a) What kind of a pronoun is "who"? Give reason.
(b) Is "will help" transitive or intransitive? Why?
(c) Why is "learn" a verb?
(d) What part of speech is "spelling "? Why?
(c) Wiat is the case of "lesson?" Why?
4. Make a table of words in the singular number in one coiuma and the corresponding plusals in another column, using the following words as one of each pair: child, pence, hero, woman, dice, llies, I, he, scarf.
5. "IIe is too lazy to walk very quickly." Derive the full definition of an adverb from examin. ing its uses in the foregoing sentence.
6. P'arse "come back," he cried," across this stormy water." "
7. Analyze:
(a) And fast lefore her father's men,

Three days we've fied together.
(i) IIs horsemen hard behind us ride.
(d) Out spoke the hardy Ilighland wight.
(d) I'm ready.
(c) One lovely arm she strethed for aid.
(f) The loud waves lashed the shore, Keturn or aid preventing.

| $\begin{gathered} \dot{\ddot{H}} \\ \stackrel{y}{\ddot{H}} \end{gathered}$ | $\begin{aligned} & \text { 品 } \\ & \text { E } \\ & \frac{0}{0} \\ & E \\ & 0 \end{aligned}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |

(Two marks for correct division of each sentence into noun-part and verls-part, four marks for correct analysis according to the scheme.)
8. Select the correct word from the following pairs and (optional) give the reason for the selec. tion. (Give two marks extra for cach reason correctly assigned.)

$$
\begin{aligned}
\text { Hoth }\left|\begin{array}{c}
\text { she } \\
\text { her }
\end{array}\right| \text { and Gcorge } \left.\left|\begin{array}{c}
\text { has } \\
\text { have }
\end{array}\right| \begin{array}{c}
\text { gone } \\
\text { went }
\end{array} \right\rvert\, \\
\text { to school }\left|\begin{array}{c}
\text { regularly } \\
\text { regular }
\end{array}\right| \text { this winter. }
\end{aligned}
$$

## ARITHMETIC.

## THIRD TO FOURTH CR.ASS.

Limit of Work.-Practical application of the four simple rules continued. Factoring continued. Reduction and the compound rules. Cancellation. Measures and multiples.
(a) How many times must in be added to 87 . to give ten thousand one hundred?
(i) How many times must 18 be substracted from fifty-eight hundreds to leave 58 units?
(c) How many times 17 will give the same pro. duct as 69 times 289?
2. A grocer mixes 23 ths. of tea worth 38 cents per $\mathrm{ll}^{\prime} ., 9$ this worth 45 cents per th., and 7 the. worth 50 cents per It. What is the mixture worth per lle.?
2. Reduce :
(a) 13 tons, 9 cwt., 48 oz. , to lbs.
(b) 3520 yds , 0 ft ., 0 in., to miles.
(c) 8694569 wecks to days.
(d) 8 gallons, 96 quarts, 64 pints to gallons.
4. In February a teamster drew 23 cords of gravel all but 4 cubic feet. His gravel box held 1 cubic yard 1 cubic foot; how much did he carn at 55 cents per load?
5. Make a bill of the following items. Use your ruler in drawing the lines needed for the bill:
Mrs. Selwyn bought of R. F. Smith \& Co.
Fel). 27-3 1 l s .9 oz . checse (a) 12 cents per it. 12 oz. tea (1) 64 cents per 1 t .
Mar. 13-1 ti. 6 oz. coffee © 32 cents per th. 4 doz. and 6 cggs @ 16 per doz.
Apr. 10-2 quarts vinegar @ 60 per gallon. 22 lths. bacon at $\$ 9$ per cwt.
Three marks for the correct work of each item put on paper and denominations all written. One mark for correct amount without the work, two marks for correct entry and addition of the items, and five marks ior a neal and correct form of bill.
6. Timothy seed per bushel of 4 S lbs . is worth $\$ 2.60$; how much will it cost to seed a field 40 rods long by 24 rods wide, sowing 24 ibs. 10 the acre?
7. Bought 2340 Jls. of wheat at $\$ 1.20$ per cwt., and sold it at $7 S$ cents per bushel: find the gain.
S. At 46 cents per bushel ( 60 lbs.) how many lis. of potatocs will pay for 1840 tibs. of hay at $\$ 9$ per not?
9. At $\$ S$ per thousand find the price of enough lumber for a tight board fence 6 feet high and to rods long.
10. Find the lowest nuniter that contains all the following as factors: $6,15,70,220,231,275$,

## HGADQUARRTERS.

## LUMSDEN \& WILSON

Have now on hand a complete stock of all sizes of Ackechnie's celebrated foothalk, imported directly by themelves from Scotland : they are undoubtelly far ahead of other makes booth in quality and chape. Why pay as much or more for inferior balls? l.ook at our prices:


No. 5. "The Goal," citcamference 28 inches, - price $\$ 375$
5. "Queen's Park," " 28 " - " ${ }_{4}$ "

The new hall "Queen's Park" has only to be seen to be adopted by any first-class club. We have no hesitation in pronouncing it the most perfect football in the markiet.
Any ball, with copy of rules, sent free by mail to any address in the Dontinion on receipt of price. Send for complete price list of sundries to

## LUMSDEN \& WILSON, IMPOKTERS OF FOOTliAII. GOODS,

 SEAFORTH,ONTARIO.
We will send the Educational Weckly four months, and the New Silver Carols, postpaid, for \$1.00.
We will send the Educational iVeekly one year, and the New Silver Carols, postpaid, for $\$ 2.10$.
We will send the Educational Weekly three months, and the New Arithmetic, !ostpaid, for $\$ 1.00$.
We will send the Educational Weekly one year, and the New Arithmetic, postpaid, for $\$ 2.15$.
We will send the Educational VVeekly four months, and Williams' Composition and Practical English, postpaid, for $\$ \mathbf{1} . \infty$.
We will send the Educational Weekly one year, and Williams' Composition and Practical Eng. lish, postpaid, for $\$ 2.10$.
We will send the Educational Weekly three months, and Ayres' Verbalist and Orthoepist, postpaid, for \$1.00.
We will send the Educational Veekly one year, and Ayres' Verbalist and Orthoepist, postpaid, for \$2.25.
We will send the Educational Weekly one year and Stormonth's Dictionary (Full Shecp), for $\$ 7.50$.
We will send the Educational Weekly one year, and Worcester's Dictionary (Full Sheep), for $\$ 9.50$.
We will send the Educational Weckly one year, and Welster's Dictionary (Full Sheep), for $\$ 13.50$.
We will send the Educational Weckly one"year, and Lippincott's Gazetteer (Eull Sheep), for \$11.50.
Address-

## EDUCATIONAL WEEKLY,

 GRIP OFFICE, TORONTO.IOOK OUT

- FOH -

SPECIAL CIRCULARS DND CATALOGUE TO TEACHERS.

## T0 TEACHERS.

The full list of sailings of the Allan line steamshigs has now been published, and may tee had' at the company's office, corner of King and Yonge streets. Some inthortans alterations have been made in the cabin plans of some of the steamships, and the inside rooms uncer the saloon of the Polynesian, Sarmatim, Circassian, Petuvian mad Sardinian will no longer be ured. Ail cabin passengers will now le berthed on the saloon deck on any of the steam hip mentioned. The cabin rates by the mail steamers will le $\$ 60$, $\$ 70, \$ 30$; return, $\$ 120, \$ 130$, $\$ 150$. The cabin rates by the extra steamers to Liverpool direct will be $\$ 50$ and $\$ 60$ and $\$ 90$ and $\$ 110$ return.
The Circassian, the first exten steamer from Quebec, will leave May ith. The lolynesian will be the first mail steamer, and will lrave Quebec May zoth.
A short sea pascage, the beautiful scenery of the Kiver St. Inwrence, sure and close conection made at loint Levis by the Grand Trunk Railway, or at Quebee by the Canadian Pacific (the passengers being taken direct to the steamer and put on board without expenve) are amongst the many attractions and advantages offered by the Allan line and St. Iawrence route.

## School Teaches, Minstes \& Lady Igants

FROM ALL OVER TIEE COUNTRY
Pour in daily reports of the greatest and most fatering success of our agents. Reader, go to work at the best business your attention was ever called to, and in a short time earn more than tea dollars per day: Send for particulars and Illustrated Catalogue, mailed free. THE ONTARIO TEA COR PORATION, i25 Hay Street, Toronto.

Dr. G. STERLING RYERSON
Eyb, Ear, Throat and Nose Diseases. 317 CHURCH ST., - - . TORONTO.

## SOMETHING NEW.

Teachers. Clerks, Ministers and others, to handle the bes FOUSTAIN PEN ever invented; large prolits and yuick returns; selk at sight wherever introduced, beincheap, durable, and of any degree of hexibility: write at
once for price list and particulars to agents. once for price list and particulars to agents.

CHARIES II. HROOKS,


## OCEAN TRAVEL

AND THB

## Colonial Exhibition

## エIN IONDON.

At this season of the year many are preparing to cross the Atlantic, and the question naturally arieec, What tine shall we go by? We notice advertioed suppoeel Cheap Fares, but upon examining we conse to the conclusion they are the most expenive in the long run, and in some cases more expensive than last year, and as our time is limited ne naturally prefer going by a Regular First-Class Line, whose average time is seven dasc, in preference to low-priced J.ince taking from $1210: 17$ days, and by so doing we have at least two weeks longer in the Old Country, and thus save time and se more for our money, and taking a!l into consideration we conclude to go by the old reliable CUNARD STEAMSHIP I.INE, whoce rates are as low as any FiriClass I.ine, and where we find diccipline complete; and to any of our readers that wish jarticulars of this magnificent Line, we aivisc them to apply to

SAM OSBORNE \& CO..
so Yongr St., Tononto.
()RDER YOUR HOOKS (NEW OK SECOND. hand) from Davil) liovile, 353 Vonge Street. Toronco.
'lljaCl-IERS.
Write us, male or fentale, gond requectable agencs:
 Street, Toronto.
A Good Investmint- It paj to carry a good watch. I never had antisfaction till l bught one of 15 . Mt.
 zind door noulh of Ouren.

## IMPORTANT TO TEACHERS.

All thove desirous of yending their holidays in canpping on 'roronto Inlard thonld communicate at once with the sectetary of the loronto camping Asociation.

Al.FRED SCOI'l, Sectetary.
16y Sunge St., 'Joronto.
MCIIWAIIN:S
Telegraph and Eciectic Shorthand Institnte 3: KING STREF:I EASI.

Send for Circular.
Euidence. de.. reported by expericnced Stenoyraphers.

## School Prize Books.

 Ontario School Book Depot, Whitby, Ont., Have now ja stock a very large line of Mischilangous lkeroks. just the thing for young pesple. Special terms to School lloards and teachers for fuantity. Write for Catalogue and ierms, or if consenient, call personally.STAFFORD \& WILLCOX.



For Consumption, Asthma, Bronchitic, Dyrpepsia, Casarrh, Headache, Debility, Rheunnatism, Neuralgia, and all Chronic and Nervous Disorders.

Canadian Depmitury:
E. W. D. KING, ${ }^{\text {ss }}$ churcit street,

The Practical Book-Keeper.


This is the most practical woik on the Science of Account: and liusiness Correspondence yct publikhed. It diffess in some respecas from other looks on these subjects:-Ist. in lis simplicity: 2nd, in its completeness: 3rd, in the practical character, or lis contents; 4th, it the practical method in which Business Correspondence is treated.

AN INVALUABLE TEXT BOOK.
Get a Cooy and be Convinced. Price, \$1.00.
Address, CONNOR O'DEA, Tokonto, Ont.

## NHW SIIVHE CAIOIS. <br> A COLLECTION OF NEW MUSIC FOR PUBLIC SCHOOLS, - consisting or

 Glees, Quartets, (Duets, Rounds, Solos, Sorgs, with Choruses, Marches, Etc.- Al.SQ A concist Anu rkacrical.-
= RUDIMENTAL DEPARTMENT. $=$
Edited by J. II. Leslie and W. A. Ogden. Price $\$ 5.00$ per dozen. Single copy, 50 cents. One sample copy by mat to School Superintendent on receipt of 25 cents . Splecimen pages free to everbody. Address,


## W. W. WHITNEY, Publisher, TOLEDO, 0.



- ARCADE, TORONTO. -

A
SCl1OOL thoroughly equipped for Business Training, Bookreeming, Amthmetic, Business penmanshif, Correshonibsice, Suorthano and Type-Writinte practically taught.

For Circular and Information address-
Toronso, September soth, 183 s.
C. $O^{\prime} D E A$, Secretary.

We will send "CASSELL'S NATIONAL LIBRARY" one year ( 52 numbers), postpaid, and "THE EDUCATIONAL WEEKLY," one year, for $\$ 6.00$.
educational weekly, Grip Office, Toronto.

WEBSTER
ir. varlous Styles of Binding, with and

The Latosi Edition has 118,000 Woriln, nild 3000 Fingravinum, -ikn moro Worda amd brif ly ank nuoro Eingriviuge than foumd in nuy olher Anuerican Dictionary: It alno contalina a Ibloкraplaicul Dictioniary: giving lirief ficts anti ererning nearly $\mathbf{1 0 , 0 0 0}$ Noted Persons. 'lo thesu centures wo havo

JUST ADDED, (1885)
A NEW PRONOUNCING
Gazetteer ${ }^{\text {tit }}$ World,
containing over $0 \$, 000$ Tilles, briedy describing the Countrles, Cjties, Towns, brlefly describing the Colutries, Citica, Towns,
and Naturai Features of every pari of the Globe.

WEBSTER is TREE STALDARD
Authority with tho U. S. Supreme Courl and in tlu Gov't Printing onice, and is recommended y fio Stare Supts of Schoots in 36 Statest alld by tho leauing Colitego Presidents.
The London Timess sass: It is tho best DicHonary of the languago.
The Quarterly. Review, Iendon, anys: It is the beat practical Dictionary extant.
The Oalcutta Englishman says: It is tho most porfect work of tho kind.
2de zoronto Globe, Fannde, asy: Its placo is in tho rery highest rank.
The Ifow Tor's Iribnanesays: It is recognized as tho most useftl existing "word•book" of tho English language all over the world.
It is an invaluable companion in overy 8 chool, and at every Fircside. Specimen pages and testimodinb seat prepada on appicaton Eprla field, Minsen $\mathrm{U}, \mathrm{S}, \mathrm{A}$.

## IMPORTANT ANNOUNCEMENT.

# Teachers' EXCURSION 

TO THEE

## COLONIAL AND INDIAN EXHIBITION, IN LONDON, ENGLAND. 1886.

At the request of several School Inspectors and Teachers, Dr. May, the representative of the Education Department at the Colonial Exhibition, has applied for Excursion Rates from the principal Ocean Steamship Companies.

The lowest rates offered are from Niagara Falls to Londe: via New York and Glasgow, for $\$ 100$, including first-class to New York and return; first-class Ocean Stcamship passage frci- New York to Glasgow and return ; and third class from Glasgow to London and return.

Mr. C. F. Belddon, Ticket Agent, New York Centrat. R. R., Niagara Falls, N.Y., will give further particulars as to Tickets, ctc.

DR. S. D. MAY, Commissioner of the Education Department for Ontario, at the Colonial and Indian Exhibition, London, England, will make arrangements on due notice, for Teachers to visit Educational Institutions and other places of interest in London.



[^0]:    - "I ife of IXenry Wadswonth I ongfellow, with Extracts from his Jounals and Correspondence" Edited by Samukt. longraliow. In two volumes. Iboston: licknor \& Co. 18EG.

[^1]:    The merits of a dispuse as to terms of renumeralion betweell one man and a hundred, or between hundreds of shareholiders and thousands of employes is-if we are to abide by free and unresiricted competition-a malli $\frac{8}{}$ as much oulside the business of the state, or of onlooking individuals, at is a dispute on the same question hetueen a merchant and a cienk. The expedieacy, or inexpediency, of the action of the dispuatants is no business of outsiders. But it is the business of the state to see that parties unconnected with the strife shall suffer as litule as possible from it ; and that thoee who may protit by it by entering into new coa tracts, shall not be himdered from so doing if so inclined. This mag le called veiy cold-blocded language. It is mercly the language which follows from the doctrine that every man is the best julge of his own interests, and should be ieft free to pursue them by contract until his action shall check that of olher people.
    This provides no remedy ; it only points out the evils of regarding unions as possessing any legitinate social or political power in the community.

    Doubtess as the case now stands : labour in open revolt against capital ; each beligving the other to be its bitterest foe; and the whole question complicated by the existence of monoplies on the one hand and unions on the other, no perfect solution will or can be found. The questinn for us is, not so much where the solution is to be found, as what it is that has brought about this lamentable state of

