Technical and Bibliographic Notes / Notes techniques et bibliographiques

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"A Thoroughly Educated People never can be Slaves." No. 7.

Vol. 1.

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THE EDUCATOR

A MONTHLY PERIODICAL, devoted to the in-terests of practical education. Is published on the 15th or 16th of each month by JONES & Co., London, Ontario. Office Richmond Street, opposite Offy Hall.

Price for single copies 200 per year. In clubs of four and upwards 25c per year. All subscriptions are 1 myable invariably in advance.

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Original and Selected.

THE TRACHER IS THE BOOK.

That the Teacher is the School, we have found to be true in more than one sense; of course not in the full sense of the word, its perfection or imperfections, might gener- in making them discover for themselves the there being, besides the teacher, some more ally be just as well performed by the better principles and laws underlying the pheno-

place.

spread all over Germany and Switzerland, and is our experience. tried and proved in half a century's practice of the reformed schools there.

out, the aid of the teacher-in a few cases in own senses, what is to be seen or examined school, but on the wholeat home. It strikes in the objects presented, and lead them to us that the teacher plays here a very subor- express their observations, when correct and dinate part, and a machine might be invented complete, in proper language. The less he to supplant him, in most cases; for hearing speaks himself, making his pupils speak ina recitation, and pronouncing a judgment on stead, the better. If he succeeds in this way, constituents necessary for the full reality of a pupils of the class. The text-book here is mena, he may depend on their never forget-

school-as, for instance, the pupils, the build- almost everything, the teacher almost nothing ing, the school system and its administration, for nobody. The pupil is passive and merely But that the teacher ought to be the text- receptive; he is not not guided to reproduc book, is true in the proper sense of the word. Ing the matter to be mastered out of himself The best school is that which makes the least to becoming active and independent. The use of text books, the teacher filling their matter is not developed in his mind, nor his mind developed through and with the matter. The term text-book does not here apply to 'It is only the best talent, a very small per rolling-books of whatever kind; no school centage of boys and girls, who will in this can do away with these. But it applies to way become tolerably proficient in the science all other kinds of books Thich are commonly to be acquired; because only a very few have used in schools. Of these we hold that they the mental capacity which is self-instructive, ought to be replaced by live much es; Castanich digests mental food in whatsoever learning by heart ought to be a placed by sauce served up. The balance of the pupioral teaching and recitations by oral repeti. Will, after the lapse of a few months, have tions. It is no new theory which we here forgotton every particle of the truths thus proclaim; it is the Pestalozzian system, as received, but not assimilated. At least this

In that system which makes a text book of the teacher, the latter is, of course, required On the other hand, the Anglo-Saxon system to be master of the science to be taught, to of teaching, as practiced in Great Britain and have it at his fingers' ends, thoroughly underthe United States, is book-teaching. When stood, and ready for communication. When ever any of the sciences is to be taught in he begins his instruction, he must be well school, the teacher singles out a chapter of prepared, and all he says on the subject must the text-book introduced for learning by be calculated to inspire the learners with heart. The better class of teachers will, on love for the science to be mastered, and this occasion, explain the contents of the its objects. Wherever it is possible to illuschapter, or they will do the same thing after, trate the subject, by presenting it to ocular recitation-which is worse yet. The pupil inspection, he will do it; each of his lessons has to recite his task, and a new chapter is is more or less an object lesson. Whatever committed to memory; ap 4 so on till the the can forego teaching himself, by eliciting book is gone through. If is ere are practical it from the class through adroit questions, examples given in the book, as for instance and by rendering thus the pupils self active, in all books of arithmetic, the pupil has to be will extract from them. He will make solve them, as well as he can, with, or with, thom sor, and, in general, examine with their

and illustrated. Thus he sharpens their perceptive powers, quickens their wit, their reflection, presence of mind, and attention, - he interests them in the objects presented to such a degree, that they acquire knowledge almost imperceptibly and without severe efforts. Learning becomes pleasure, and is accompanied with the same intense satisfaction which accompanies every kind of teacher is sure to attract and advance every single pupil of his class; and although learning in such a thorough manner must needs he slow and gradual from the outset, a great deal of time is gained in the end by the rapid mental growth of the pupils, and by their self-activity. Beginning slowly, he may make repid strides in the end, because his pupils meet him half way with keen mental appotites and ready assimilating powers. There is, of course, in every science a number of facts which are not mastered by simple reflection, but must, at the same time be impressed upon the memory for immediate practical use. The teacher will further this work of memory either by dictating, at the end of the lesson, a short paragraph containing those facts, and by repeating the same with the class properly; or he will set the pupils themselves, when far enough advanced to commit these facts to writing, and have the contents properly repeated; or he will, if a reading-book is at hand containing the facts, refer the class to their book, and repeat them from it. Thus the pupils will, in time, become living text-books, like the teacher, and what they have acquired will be their imperishable property, ready for any application in practical life. The science appropriated in this way will be alive in the scholar and shed light on all cognate subjects. This is the Pestalozzian system of instruction, as compared with the Anglo-Saxon.

Now it will be easily seen that the system in which the teacher is the text-book, has great advantages over the other -yetem, in which the teacher mas a text-book, and the text-book is the real teacher. How superior soever be the text-books you may devise, they are dead teachers, and cannot engender life in the majority of your pupils. Besides the pupils, if they advance materially by the aid of their text-books, will be grateful for this result, not to their teacher, but to their books. And if they do not advance, they will blame for this result, not the book, but the teacher. Thus the Angle-Sixon system loosens, if it does not indeed destroy, the moral connection between the teacher and his pupils. The Pestalozzian teacher on the contrary, is very potent for good; his pupils have a boundless confidence in him and his office. They feel that they owe their rapid mental growth to him exclusively, and he is implicitly believed and obeyed.

ting the chapter of science thus presented | He sways their whole being as with a magic wand; he exerts over them an enormous moral influence for all educational purposes. He is to them the impersonation of truth, dignity and moral worth; and he must have very little moral character, if he does not feel exalted by their appreciation of him, and stimulated to work out his own moral bearing into a model for them.

Now it may be pleaded in excuse for the growth and perfect assimilation. Such a Anglo-Saxon system, that there is in a country with a rapidly increasing population a great lack of competent teachers, and that, therefore, good text-books are to make up for this want, at least to some degree. Grant that this is so, it is an evil to be overcome. Incompetent teachers lessen the respect due to science and education, thus doing almost more harm than good. The sooner you get rid of them the better. The radical reform is also, in this respect, the cheapest and most practicable of all. Besides, text-books are, with scanty exceptions, faulty enough, and it is infinitely more difficult to prepare text-books (nay, it is filmost impossible, because the understanding and the wants of every individual learner ar, different) than to raise a generation of true and good teachers, who know how to accomodate themselves to the individual wants of every pupil. Finally, the text-books need revision almost from year to year, science is now progressing inauch a way as tw revolutionize many oldestablished truths, and opening new views in an unprecedented manner. But a live teacher may always control his science according to the latest discoveries, and conform his teachings to the modern improvements in knowledge and philosophy. Ho will be up to the times; text-books never are.

GRAMMATICAL NOTES.

CERTAIN COMMON ERRORS.

Most for almost. A very common error. Examples: "I believe we are prepared for most anything."-New York Paper. This should be, "for almost any thing." Any is the word modified by almost, and should, in spelling, be separated from thing. "Pittsburgh Landing is the place where most all the Federals landed."-N. Orleans Paper. " Most every dress-maker has a chion of her own."-Phila. Paper. "These are most always found near the sea."-Boston Paper. "He is most as tall as I." In these and all similar instances, almost is the word to be used, not most.

2. Myself for me or I Myself, like yourself, himself, herself, is reflective, and properly used only when it refers to an I or me in the same sentence with itself. The I is sometimes merely implied, especially when myself is used as a reduplicate pronoun, as in the following:

" Myself shall mount the rostrum in his favor."-Addison.

> I nightly lodge her in an upper tower, The key whereof MYSELF have ever kept,— The key whereof a Suar Strang.

Here, in both instances, the complete form of expression is "I myself." But, whether expressed or understood, I in some one of its forms belongs to every sentence in which myself is properly used, so that the latter, as a reflective, can have its appropriate word to relate to. Examples: "I will disguise myself." "By myself have I sworn." "Thou hast kept me from avenging myself with my own hand." "After having been thus particular upon my. self. I shall in to-morrow's papergive an account of those gentlemen who are concerned with me." Here me for myself is unidiomatic. It is inadmissible. Though allowable sometimes in verse, (as, "I sit me down a pensive hour to spend,") in prose it is improper. So, on the other hand, the use of myself for me or I is inelegant and incorrect. It is a perverting of the word from its proper function as a reflective pronoun. And yet this misuse is very commen. It would seem as though some persons have an instinctive dread of using me; for, whenever they can, they employ the longer, inappropriate, and improper word mysslf. Examples: "Neither Dick nor myself could answer this question."-Ten Acres Enough. "Both myself and wife [Both my wife and I] had always coveted a cow."-Do. "Such as Hodgson, Caldwell, Logan, and myself have pointed out."- Max Muller. "Mr. L- and myself went to examine the falls."-Dwight's Travels. "It was determined to devote ine to the church, that so my humors and myself might be removed out of the way."-Irving.

والروجة المراجين ووجات وأندروني الروادي

To some there may be an appearance of propriety in this last example, if not in the second one. But both are equally incorrect. They resemble somewhat that well-known error of Addison's," My Christian and surname begin and end with the same letters."-Spect., No. 505. This, to be right, should be, "My Christian and sur names begin." &c. But this is not English. So, if myself were not one word, we might say, "My humors and my self,"-humors and self denoting two different parts or properties of the same person. In a similar manner we might say, " My self and wife," just as we say, "My shoes and stockings." But this is inadmissable. Not only is myself a single word, but its character as a reflective forbids its being used with any propriety as a substitute for me or I. As Archdeacon Hare says, "In such expressions as My father and myself, My brother and myself, we are misled by homoophony; but the old song, beginning My father, my mother and I, may teach us what is the idiomatic and also the correct usage."

The above uses of myself are as improper as the following use of himself. "As the President can seldom be absent from Washington for any great length of time, it is desirable to furnish himself and family [The writer meant him and his family) with some such place of retirement." Correct writers and speakers never thus misuse the so-called compound personal pronouns, whether of the first person, or of the second or third. Walpole says, "In the beginning of the differences between Gray and me, the fault was mine." Modern schoolgirls and newspaper correspondents would say, "Between Gray and myself." Gray himself wrote, "The spirit of luziness begins to nossess even me, that have so long declaimed against it." Our modern autophobists, as Hare would call them, shrinking from the use of me, would say, "Begins to possess even myself," &c. We question very seriously whether such unidiomatic English can be found anywhere in the writings of Addison, Swift, Johnson, Junius, Macaulay, Channing, Bancroft, and other truly classic authors.

- 3. While for when. We see this at almost every railroad crossing throughout the country. "Look out for the cars while the bell rings." While denotes duration or continuance; but rings denotes momentariness of action. Hence the impropriety of using the former to denote the nature of the time implied in the latter. We should either make the verb correspond in form to while-thus, "Look out for the cars while [i.e., during the time that] the bell is ring ing;" or else, which is better, make the conjunctive word correspond with the form of the verb which expresses the meaning designed; thus, "Look out for the cars when [i. c., at the time that] the bell rings." In this way, the times respectively implied in the adverb and the verb are made to correspond.
- 4. Long ago since. This combination is always improper. Ago denotes a point of past time, and hence needs to be coupled with tenses implying past time only. But since denotes a period reckoned from some past point forward to the present. It is improper, therefore, to use it with reference solely to a certain point of past time. As a conjunctive adverb of time, it properly connects an assertion involving past time with one involving present time.

"It is a year since ho was here last." Since the fathers fell asleep, all things continue as they were from the beginning." "We have not seen[Pres. Perf.]him since he went to Ohio." Examples like the following are, therefore, it correct. "It was not long ago since the Charleston Mercury said," &c. This should be, " It was not long ago that the Charleston Mercury said;" or, "It is not long since the Charleston Mercury said." "It is a long time ago since I have had that pleasure" rected this will be, "It is a long time since I had that pleasure." "How long is it ago since this came to him?" Omit ago; or else say, "How long ago was it that this came?" "'Tis but an hour ago since it was mine." This, of course, is corrected in the same way.-New York Teacher.

(TO BE CONTINUED.)

THE BOOK-KEEPER'S DREAM

BY J. W. EDDY.

The day had wearily worn to its close, And night had come down with its needed repose, As a Book-keeper wended his way from the store, Glad that his tollsome hours were o'er.

The night was cheerless, and dismal, and damp, And the filtering fiame of the dim street lamp, Went out in the wild rough gusts, that best, With furious speed, through the gloomy street.

Tired and cold, with pain throbbing head,

He sank to repose in historicly bed Still through his brain, as the Book keeper s'ept, Visions of Debtor and Creditor crept

The great Balance Sheet he had finished that day, And Profit and Loss, in the usual way, Bhowed how much money, the merchant had made Or lost, in the preceding twelve months' trade

And he dreamed that night, that an angel came With the Leger of Life, and against his name, Were charges till there was no more room to spare, And nothing whatever was credited there

There were life, and its blessings, intellect, health , There were charges of time, opportunities wealth , Of talents for good, of friendship, the best Of nourishment, joys, affection and rest .

And hundreds of others, and each one as great. All with interest accrued from the time of their date, Till despairing of e'er being able to pay, The Book-keeper shrauk from the angel away

But the angel declared the account must be paid, And protested it could not be longer delayed. The Book keeper sighed, and began to deplore How meagre the treasure he'd laid up in store

He'd cheerfully render all he had acquired, And his note on demand, for the balance required. When quickly the angel took paper and wrote The following, as an acceptable note:

"On demand, without grace, from the close of to day, For value received, I promise to pay To him who has kept me, and every where Has guarded my sou', with infinite care,

Whose blessings outnumber the drops of the ocean; While living, the sum of my heart's best devotion. In witness whereof, to be econ of all mon, . I affix the great scal of souls, Amen."

The Book-keaper added his name to the note, While the angel, across the great leger-page, wrote In letters as crimson as buman gore, " Scitled in full" and was seen no more.

LESSONS FROM OVERHEAD.

THE DEW.

If clouds are necessary to produce rain, sunshine is an essential to the formation of dew. A dewy morning only follows a day air about it, and when the air is saturated with moisture, then, by the contact of tem peratures, the air becomes unable to retain becomes visible in drops of settling dew. So whenever dew is seen to fall, there must first have been a flowing down of sunshine in the day, and then a responsive current of warmth whence it came. The earth receives and yet | the process which distils the dew. returns the heat the heavens give, and as if thankful breast.

responsiveness to heaven's gifts—for want of of the soul, where passion festers and mists gratitude for the light and privilege which of projudice arise—shapeless, confused, and

have shone upon them all their days Teach ers, if they would see their classes hight and happy, and parents, if they would have glow ing summer in their homes, and have young hearts themselves, should be open souled and thankful, and teach the children how to be grateful for daily blessings. Then would run warmth from the better world be taken in through the gauze of form, and task, and habit, and fashion; then, because each heart would be flower instead of flint, grass instead of granite, fruit instead of fossil, then would the pearly dew drops of glory glitter all over a school and all through a family, like an immortal morning.

- 3. The dew does not waste itself on rocks, however high, and immorable, and prominent, but it blesses the bowing roses in their lowliest solitudes, and flashes its sparkling diamonds all over the trampled ivy on the ground. It passes by the cathedral spira and the marble palace, to nestle in the arms of the clover, and to kiss the leaf already flushed with the scarlet fevers of the Fall. It does not settle on the leaves of the bitter rag-weed which grows spontaneously to choke what men have planted, but rather, because of the intruder, distills in double measure upon the blades and silken sheathing of the corn, until in early morning suns they glow and smile as after streaming ram.
- 4. Some parts of the earth's surface never receive any dew. It never falls on stony ground. The reflection of the sky's varmth from stony places is not sufficient to mynathe dew. No avenues are opened for the dew drops, and there is no use for them, did they fall. There is no perceptible development to a rock. It puts forth no buds or blossoms; it spreads no leaves; it bears no whose sun has well warmed up the earth. It fruit. And some human hearts are so, is necessary that the heat should readily m. They remain uncheered, unblest, unmet diate into the surrounding atmosphere by by any spiritual visitations from above. The night. When the surface of the earth thus heavenly dews, falling all around, reach them cools down more rapidly than the incumbent not. For they are not warmed into life by daily blessings and bounties, and respond not to, bu resist, the light and love of heaven.
- 5 An open, unobstructed sky is necessary its moisture, and yields its sprays and vapors to the formation of the dew. There must be to be shaped by a natural law, the same room for the earth's moisture to rise freely which rounded the world out of chaos and and broadly, and less itself in the air. Any orbed the universe; and what was invisible thing that intercepts a full view of the firmament, prevents the deposition of the dew. Dow never falls on a cloudy night. The face of the high heavens must not wear vails. A single cloud astray across the skies, though uprising in the night, toward the region stars shino all around it, is a hindrance to
- 6. Truth is sometimes beclouded. Then to reward such gratitude, the dew descends fear or impulse takes the place of judgment. to refresh and gladden its beseeching and Like the vapors which rise from marshy places and stagnant pools where foul waters gather 2. So, when people's hearts are hard, and and rank weeds grow: so, from the wastedry, and desolate, it may be because they lack places of the heart, and the neglected depths

dismal dark and lowering doults becloud the skies of Truth. Oftentimes the creeded opinions of men are the greatest obstructions to the true light. These are the clouds that hung over many a sad, bewildered 'spirit, closing the passage between it and God. It is the teacher's work to clear away the rubbish from the young mind and to so inspire, by nord and example that it shall be ever open to new lessons out of heaven, sweet and pure as the light and the dew, rather than to smother it in the wrappage of lettered lessons and professionalities.

ALRNANDER CLARK.

(CONCLUSION IN NEXT NUMBER.)

FREEZING THE BRAIN.

The discovery that the brain of a living animal could be frozen, and afterward could recover, was made by Dr. James Arnott, who solidified the brain of a pigeon by exposing it to a freezing mixture. Here research stopped, because with an ordinary freezing mixture it was not possible to act on individual parts of the organ; but the importance of the discovery is not the less on that account. It was a marvellous revealing. Think what it was! Here was a living organ of mind, a centre of power, of all guiding power, of all volition. It took in every mo tion of the universe to which it was exposed. It took in light and form and color by the eye; it took in sound by the ear; sensation and substance by the touch; odor by the nostrils; and taste by the mouth; it gave out in return or response, animal motion, expression-all else that demonstrates a living animal. With it the animal was an animal; without it the animal was turned into a mere vegetable. And this organ, the very centre and soul of the organism, was, by mere physicil experiment, for a time made dead-all its powers ice-bound. And this organ, again set free, received its functions back again. and, as we know now by further observation, its functions unimpaired. Surely this was the discovery of a new world.

WHO WANTS A BOOKKEEPER!

Competent Accountants can be furnished at any time for Merchants, Bankers, Professional men. Mechanics or Farmers, if application be mide, (stating salary.) to J. W. Jones. Principal of London Com'l College. Those wishing to secure Bookkeepers or Travelling Agents, will do well to obtain the services of Graduates of this College, as their training has been of the most thorough and practical nature, and we feel confident that any young man thus recommended will give perfect satisfaction to any reasonable employer.

M. J. Rosenthal states, in Comptes Rendus that by exciting artificial respiration, and

demal dark and lowering doubts beeloud maintaining it for three or four hours, it is the skies of Truth. Oftentimes the creeded possible to save the life of an animal to opinions of men are the greatest obstructions which a dose of strychnine has been administrated to be the true light. Those are the clouds that

Practical Lessons in Spencerian Penmanship.

ACCORDING TO THE REVISED SYSTEM AS TAUGHT BY PROF. MANN, OF THE LONDON COMMERCIAL COLLEGE.



THE CAPITAL LETTER V commences with a Capital Loop, which is slightly modified at the base by a turn to the right, connect-

ting it with a compound curve extending upward two spaces, and terminating with a dot as in W.

Measured upon a straight line, drawn at right angles with the regular slant through the middle of the loop, the letter may be divided into five equal spaces.



Analysis.—Principles:— Seventh, Second, Third.



PROBABLE FAULTS.—Downward lines too close to each other; second downward line made a full compound curve; turn at base too wide, or made angularly.



Suggestions. — Practice exercise in diagram, giving special attention to slants and turn at base.



THE CAPITAL LETTER U begins with a modified Capital Loop, as in V. It unites in a turn at the base with a right curve,

extending upward two-thirds the height of the letter. A slanting straight line retraces the right curve one-half the length of the letter, and continuing to the ruled line, unites by a lower turn with a right curve, drawn upward one space.

The last two right curves are similar.

The width of the letter may be divided into six equal spaces.



ANALYSIS.— Principles:— SeventhSecond, First Second.!



PROBABLE FAULTS.— Same in first part as in V; straight line slonting too much, & retracing curved line too near to its base.

Sugarstion. — Practice upon the parts separately, as in the analysis.

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HUMAN FOSSILS.

Seven more ekeletons of human beings who are supposed to have lived long before the present geological era of the earth, and consequently before the period assigned in our ordinary chronology to the creation, have been discovered in France. The locality is a spot opposite the station of Eyzies, in the commune of Tayac, department of the Dordogne. Two of the skeletons were destroyed by the ignorant laborers who uncarthed them but five were preserved, and their skulls have been sent to Paris for examination by men of science. The circumstances attending their discovery, the peculiarities of their structure, and the nature of the formal position in which they were buried, will doubtless soon be published to the world.

CONSISTENCY IS A JEWEL.

The following notice is clipped from "The Strathroy Age," which paper was, at the time of its insertion, edited and published by Geo. W. Ross, the writer of the article. We would also state that this was done voluntarily on his part and without charge. We were not even advertising in his columns at the time. The Italics are Mr. R.'s

London Commercial College.—Through the energetic efforts of the Principal, J. W. Jones, this college has now attained a reputation for respectability and efficiency, which places it beyond doubt as one of the best institutions of the kind in Western Canada. The course pursued is not to cram but to educate, and that thoroughly and practically. Attention is paid to moral as well as to intellectual education, and the completeness of the system does away with both preparatory and subsequent training. Besides this, the diploma of the college is in itselfan excellent recommendation for a young man wishing to get a situation as a clerk. We would advise our young men to avail themselves of the facilities afforded by this institution, and thus qualify themselves by a regular course of training to comprehend and master all the difficulties and intricacies of business.

The cause of our publishing the above, is that we have been informed, that this same man actuated by some motive unknown to us, whilst addressing a public meeting, not long ago, made statements which were cal-

culated in their nature, and apparently clouds the recitation. His expostulations toll versation, it is a great happeness to be he had before been so forward in extelling. We are glad, however, that the interests of the College are not dependent on the good or ill will of that class of persons, to which Mr. R. evidently belongs. Having given the above extractand the necessary explanations we are willing to leave the matter in the hands of an intelligent and discerning public, feeling satisfied that, in the end, perfect justice will be awarded, both to the author. of the article and the institution about which frequent practice by the pupils, the results he has been guilty of "blowing both hot and will be favorable. Let it be your aim to give cold."

and the second second second

The Teacher in the School-Room

If we enter successively a number of schoolrooms, we shall probably discover a contrast something like this:-In one we shall see a presiding presence, which it will puzzle us at first sight to analyze or to explain. Looking at the master's movements-I use the masculine term only for convenience-the first quality that strikes us is the absence of all effort. Everything seems to be done with an ease which gives an impression of spontaneous and natural energy; for, after all, it is energy. The repose is totally unlike indolence. The ease of manner has no shuffling and no lounging in it. There is all the vitality and vigor of inward determination. The dignity is at the farthest possible remove from indifference or carelessness. It is told of Hercules, god of real force, that "whether he stood, or walked, or sat, or whatever thing he didahe conquered." This teacher accomplishes his ends with singular precision. He speaks less than is common, and with less pretension when he does speak, yet his idea is conveyed and caught, and his will is promptly done When he addresses an individual or a class. attention comes, and not as if it was extorted by fear, nor even paid by conscience as a duty, but cordially. Nobody seems to be looking particularly, yet he is felt to be there, through the whole place. He does not seem to be attempting anything claborately with anybody, yet the business is done, and done remarkably well. The three-fold office of school-keeping, even according to the popular standard, is achieved without friction and without failure .-Authority is secured, intellectual activity is stimulated, knowledge is got with a hearty zcal.

Over against this style of teacher we find another. He is the incarnation of painful and laborious striving. He is a conscious perturbation; a principled paroxysm; an embodied flutter; a mortal stir; an honest human hurleyburley. In his present intention he is just as sincere as the other. Indeed, he tries so hard, that by one of the common percessions of human nature, his pupils appear to have made up their minds to see to it that he shall try harder yet, and not succeed after all. So he talks much, and the multiplication of words only hinders the multiplication of integers and fractions, enscebles his government and be

designed to injure the very institution which over the boys' conscience like obliquely shot bullets over the Ice; and his gestures illustrate nothing but personal impotency and despair -American Journal of Education

MAKE FRACTIONS INTELLIGIBLE

BE SURE THAT FRACTIONS ARE WELL UNDER stoop.—Most teachers and pupils fail in not giving sufficient attention to fractions. It the various operations in fractions are clearly explained by the teacher, and followed by thorough instruction and frequent drill in exercises involving the various principles of fractions. Facility and accuracy here will be of great service in all other arithmetical exercises. We once knew an entire school in which most of the pupils had been nearly through (that is, had been taken nearly through) written arithmetic, and yet not one could answer the following simple question proposed by a visitor: "If an apple and a half cost a cent and a half, what will one apple cost?" Who cannot see that in such a school, the subject of fractions had not received merited attention?

PHONOGRAPHIC WORKS, &c.

Puonognarny, (sound writing, or writing by sound.) provides a sign for each sound in the language. In ordinary writing a NUMBER of letters or signs are made (often arbitrarily) to represent a given sound, but in Phonography ose sign directly represents the sound, hence its scientific brevity. This principle of one sign always representing the same sound, greatly aids the student in mastering its elements. It is also a valuable aid in pronouncing, as it leads the mind to note and analyize the sounds which compose a word and hence more correctly to pronounce it. Parties often enquire of us what time would be required to learn Phonography. The answer to this question should be given partly by the student, as a great deal depends on himself. In our classes we mostly give individual instruction, and we are quite safe in saying any young man can learn the elementary principles in two months if he takes from two to three lessons por week, and if he has sufficient perseverance he may do it in pretty nearly the same time alone. The difficulty is not so much in learning as in practicing afterwards. Books containing full instructions will be sent to all who wish to study or teach the art, on application being made to J. A. Elliott, at the London Com'l College; Manual and copy book by mail, \$1 121, by Express, \$1:00. Price list of all other Phonographic publications furnished free.

DR. WATTS ON THE IMPROVEMENT OF THE MIND.

1. If we would improve our minds by con- effects of gross ignorance

acquainted with porsons wiser than ourselves It is a piece of useful advice therefore to get the favor of their conversation frequently, as for as circumstances will allow and it they happen to be a little reserved, use all obliging methods to draw out of thom, what, may inrease your own knowledge.

- 2. Whatsoever company you are in, waste not the time in trifling and impertmence. It you spend some hours amongst children. talk with them according to their capacity, mark the young buddings of infant reason. observe the different motions and distinct workings of the animal and the mind, as far as you can discern them; take notice by what degrees the little creature grows up to the use of his reasoning powers, and what early projudices beset and endanger his understanding. By this means you will learn to address yourself to children for their benefit, and perhaps you may derive some useful philosophemes or theorems for your wn entertainment.
- 3. If you happen to be in company with a merchant or a sailor, a farmer or a mechanic. a milk-maid or a spinster, lead them into a discourse of the matters of their own peculiar province or profession; for every one knows, or should know, their own business best. In this sense a common mechanic is wisor than the philosopher. By this means you may gain some improvement in knowledge from every one you meet.
- 4. Confine not yourself always to one sort of company, or to persons of the same party or opinion, either in matters of learning. religion or civil life, lest, if you should hap pen to be nursed up or educated in early mistake, you should be confirmed and established in the same mistake, by convers ing only with persons of the same senti ments. A free and general conversation with men of very various countries and of different parties, opinions and practices, so far as it may be done safely, is of excellent use to undeceive us in many wrong judg ments which we may have framed, and to lead us into juster thoughts. It is said when the king of Siam, near China, first conversed with some European merchants, who sought the favor of trading on his coast, he manired of them some of the common appearances of summer and winter in their country; and when they told him of water growing so hard in their rivers, that men and horses and laden carriages passed over it, and that rain sometimes fell down as white and light as feathers, and sometimes almost as hard as stones, he would not believe a syllable they said; for ice, snow, and hall, were names and things utterly unknown to him and to his subjects in that hot climate; he renounced all traffic with such shameful liars, and would not suffer them to trade with his people. See here the natural

Burys Recayan We are in recipt of Of the kindly Samaritan, coming at last, Guyot's Intermediate and Elementary Geog raphies, (New Edition,) in which the maps have been made to conform to the present boundaries and relations of the Dominion. It is a great pity that there is not more space allotted to the lessons on this country, but these books are certainly models of correct taste and beautiful design, and the practical lessons on Map Drawing which are a prominent feature throughout their entire extent, make them extremely valuable to all who desire to become really familiar with this delightful study. For Private Schools or Family use we believe they have no equal. Persons ordering them through us, will be supplied at the following rates viz:-

For either the Elementary or Primary,

By Mall 90 c. By Express 75 c.

"Intermediate "\$1,20. " \$1,00.

"Common School Rdition "\$1,75. " " \$1,00.

Or the four books will be sont together By Mail for \$4,60 By Express \$3,75. We prepay the Postago but not the Express charges.

ANSWERS TO CORRESPONDENTS.

The papers for subscribers at South Branch, N.B., were sent in good time, but were returned to us, having been forwarded to South Branch, Oromocto. We however, remailed them immediately to South Branch, King's Co, and trust they have, ere this arrived at their proper destination.

P. S. Stenabaugh.-The statement was not that the name of the country was composed of &c., but that it contained &c. The author referred to this when he sont the copy and was quite correct.

We have received numerous complaints during the month, to the effect that parties who were entitled to several numbers of "The Educator," had received but one. We invariably sent the full number in a package but the direction was on but one, and we presume that the others were given to other parties through mistake. Subscribers will understand after this, that when but one in a package is marked that the whole package belongs to the same person.

THE LITTLE SAMARITAN.

VERSIFIED FROM A STORY.

Daisies and buttercups, yellow and white, Sprang up by the roadside cool, Over which, her footsteps buoyant and light, Passed Jennie along to her school.

And tripping along, she thought of the words Her father that morning had read, Of the poor man who "fell among thieves" by the way.

Who wounded and left him half dead

11.

She thought of the Priest and the Levite who posed So proudly and scoinfully by;

Who heeded humanity's cry;

Who bound up his wounds and bore him away To a place of safety and rest;

And the words of the Saviour, "do like unto him.

If thou wouldst be happy and blest."

Jennie, wishing to do as the Saviour had bid, Looked 'round her, half hoping to find, Somewhere in the bushes, a wounded man hid That she might be loving and kind; But nothing so sad met the little girl's gaze, And with the least bit of a sigh, Jennie said, in her heart, "It must be that

Christ

Didn't mean it for such ones as I."

IV.

Just then Jennie saw, coming down from the street,

With a countenance smiling and bland, A little girl, dressed very tidy and neat, With a pitcher of milk in her hand; But in looking at Jennie her footing she missed And fell with a cry to the ground: While Jennie ran quickly, with sweet, loving words,

Of pity sincere and profound.

v.

"Are you hurt?" she inquired; "but your pitcher is whole,

How could you so careful be?" The little girlanswered, "l'am not hurt at all, But I've spoiled my new dress, only see;" And tears started out from her beautiful eyes Like drops in an April rain;

"Never mind it," said Jennie, "I'll make it all right.

This sand, I am sure, will not stain."

· VI.

Then she drew from her pocket her handkerchief clean,

Made wet in the stream by the way. And rubbed it'till not a dark spot could be

And smoothed all the wrinkles away. It will dry in the sun as you go," added she, "And perhaps you had best hurry home, For some one, it may be, is waiting for you, And wondering why you don't come."

VII.

"Oh, yes! 'tis my grandma, and what will she say,

(And tears came starting anew,) When she finds I've wasted the milk by the

I am sure I don't know what to do?" Jennie pondered a moment—the school bell would ring

In a very short time, she was sure, She would not have time to go back to her home

To be undy she could not endure.

VIII.

"I'll tell you," she said, "little girl, what to do: You see that white cottage so fair,

By roses and lilacs half hidden from view? Well, my own darling mother lives there, And do you go to her and tell of the loss

With which you have happened to meet; And tell her that Jennie was sure she would ก็ไไ

Your pitcher with milk new and sweet."

IX.

When Jennie went home to her dinner that day,

She met her mamma at the door, Who said, "You've relieved one in want by the way.

Quite a little Samaritan, sure." "Oh, am I, dear mother!" cried Jennie, with joy,

"Is that what it means? Is it true? Oh! I am so glad, for almost every day, For some one, I something can do."

"Yas, Jennie, my darling," her mother replied "This is all that the Saviour demands, To keep perfect love in our hearts for a guide, And have willing, obedient hands; And daily and hourly, if we will but watch. We may do something loving and kind, For parents or playmates, for neighbors or friends.

And the promised reward we shall find." KATE WOODLAND.

FAIRY JUSTICE.

CHAPTER I.

MIDGE AND TRICKSY.

Tricksy and Midge were two little fairies, brother and sister, and lived on the borders of Lake Lilypond, at the mouth of Stony Run, in a palace built by the fire gnomes a million years ago. You have heard of a geode, I dare say, a great rough pebble hollow and lined with crystals, sometimes of pure quartz, clear as diamond, sometimes with red garnates, like frozen fire, with every spike of flame fixed forever in unmoving splendor. Such was the palace-home of Midge and her brother—a gigantic garnate geode, wedged in a fissure of the rocks, and open on one side in a door about as large as the entrance to a cliff-swallow's nest.

- 2. Their house was very plain on the outside, but, for compensation, it was peculiarly splendid within, especially when lighted up for an evening party by seven or eight fireflies set around among the pedant crystals of the roof, with their wings slowly waving, and shedding a splendor of greenish gold light over the blood-red garnates, while the fays and sylphs danced and leaped from peak to peak of the burning crystals that formed the floor, or played forfeits behind their shining bases.
- 3. Midge was beautiful as ever sylph was mide, and, upon state occasions, she carried in her hand a slender wand of purple and gold, a fragment of a sunbeam that she

caught in the east, one June morning, when the day broke. If she wished to change a May-bug to a golden-winged chariot, she had only to touch him with this wand, and say-

Monater of darkness ! slave of dress By thou a ear for my journey on high , Take me up softly, and hurry away, Whithersuever I will-obey Queen of the Lilles am I, am I-"

and the great droning beetle would become a beautiful air-chariot, with golden wings, and his clumsy motions would be changed to the perfection of undulent grace, so completely in harmony with her singing, that a good musician who should but see him, could tell what note the fairy sounded at every movement of the golden van.

- 4. Tricksy was fond of a frolic that had a smack of mischief in it, and you would sooner find him throwing sand in an owl's eyes, or stirring up a great lazy toad with a strawjust to see him kick and scrutch his ears, than pumping honey into the nectaries of a flower, or putting the tendrils of a morning glory in curl papers over night, as his sister might do. The little wag was armed with a lance proportionately as long as a Tartar's, and a thousand times sharper. It was made from one of the eye-lashes of Venus, one of those long, slender lines of light which give her such a radiance when she peeps in at your windows just before day, to tell you that Miss Aurora is coming to give you an early call.
- 5 Tricksy could leap a brook, the breadth of which was ten times the length of his little person, by setting the diamond point of his lance on a firm pebble in the midst of the stream, and grasping the upper end with one hand over, and the other under his head, and then giving a vigorous spring. This usually landed him safely on the other side; but sometimes he would find his trigonometry at fault about the distance, or the pebble would roll under his weight, and the lance slip off and plump him into the brook, to the great astonishment of Sir Trout and Madame Shiney, who would dart away far under the jutting banks, to escape what they innocently supposed to be some terrible new-fangled fish-hawk, with all the modern
- 6. But Tricksy would only laugh as he blew the water from his mouth, and swam ashore, where he would stop a moment to shake off the wet from his water-proof blouse and spatter dashes-beautiful sea-green garments in which he took great pride-and then speed away to some good-natured mischief, or perhaps to punish some over-greedy squirrel, or too thievish wood-chuck, or even some big boy who did not yet know that sin goes bare-backed with a whip at its heels. What Tricksy did in this behalf I will tell you by
- 7. If you had but the eyes for it, you might sometimes have seen Tricksy and Midge out!

on the lake before their house, in the Indian cupies a couplet, the record of each century summer days, each one upon a great tawny is given in the line preceded by the number oak leaf rolled up at the sides and ends by the cunning fingers of that fairy boat builder the Frost, and each grasping the long thin divides a name, the king or kings of that wing of a dragon-fly for an oar, sculling their name reigned in both halves of the century. prettyshallops among the lily pads, or soudding away before the wind in a merry boat mce.

8. I have myself seen their boats driving across the little lake, but I will not say positively that, with my unassisted eye, I could make out the figures of the frolic boatmen. though at times I am certain that I have seen something green in one of the boats, and that might have been Tricksy's jacket, which was woven of the long downy laterals of a humming-bird's feather.

TO BE CONTINCED.

ROYAL RHYMES.

The following little aid to the pupil in History has been used with profit in one of the first colleges. Generally we shun the brood of these mnemonic tricks, and would force the pupil to associate objects and events by their real connections; but in this instance and especially for younger learners who must think with their eyes and cars rather than their understandings, we commend the trifle.

Each pupil should commit to memory the whole piece, so as to be able to give the line opposite the number of any given century. Then any sovereign being mentioned, the number of his century and the particular part of it in which he lived should be required; also the entire couplet in which his name belongs.

A pleasant little problem for the class would be to find the great names in English science. literature, art. statesmanship, industries, contemporary with the Eighth Henry; also the great contemporary names in those departments, and upon the thrones throughout the world. So of Queen Elizabeth, of Cromwell (including here our own colonial history,) of William and Mary, and so on.

11th.—First, | William the Norman, then William his son,

12th .- Henry, Stephen, and | Henry, with Richard, come on :

13th.—John and Hen | ry the 3d and 1st Edward then reign,

14th.—Second Edward, 3d Ed | ward and Richard again; 15th.—Then three Hen | rys, two Edwards

Dick, Henry (I guess), 16th.—Eighth Henry, | 6th Edward, Queen

Mary, Queen Bess:

17th.—Next, do Jamie, Charles, | Cromwell, Charles 2d come on : James the 2d; good William and Mary as one ;

18th.—Then Anyo and three Georg | cs, pass off from the scene,

19th.-With 4th George and 4th William, and Victo | ria's Queen.

With the exception of the 17th, which oc. S. S. White and M. Simpson.

of the century. The upright dash in the line marks the middle of the century. When it In the Lith, Richard III., the usurper and murderer, is nicknamed "Dick," not more for rhythm than reason. James I, is called "Jamie," to indicate his Scotch descent. William and Mary are mentioned as osa be cause they were called to reign jointly.

The Quinity

ARITHMETICAL PROBLEM.

A pole standing on a plain, was broken of 6 feet below half its height, and the top struck the ground 20 ft. from the foot, the parts re maining connected at the break. What must have been the height of the pole and the length of each part.

P. C. SHAFER.

North Glanford, July 4th, 1868

MATHEMATICAL PROBLEM.

A staff 4 ft.8 in. long stands at the top of a wall 6 ft. high. Pind the distance from the base of the wall, at which the staff subtends the greatest angle.

TRIGONOMETRICAL PROBLEM.

A person in a ship at anchor at a point C in the Bay of Bengal, can just see the summit of a Peak of Himalayah Mountains, which is 5 miles high. Another person standing on the shore, in a straight line between the shop and the Peak, wishing to know the distance of the base of the Peak (which is perpendicular to the surface) from the point where he is standing, measures a straight line A B of one mile along the shore, and observes the angles CAB 64° 40 min. and CBA 83° 10 min. (C being the point where the ship is at anchor); No allowance is made for the dip of the horizon, or the height of the observer's eye, and the diameter of the earth being 8000 miles, find the distance of the Peak from the person who is standing on the shore at the point A. SAML. R. BROWN.

London Township, June 23d, 1868.

SOLUTIONS. &c., FOR ANSWERS, JULY NO.

MISCELLANEOUS ENIGMA.

Answer Restigouchik.

Correct answers from Jane Hay, Rob't, Hamilton, C. N. Vroom, Jas. Edmond, G. M. Smith. - North Glanford, R. G. D., Jno. Camoron, P. C. Shafer, S. B. Ganton, S. R. Brown, S. S. White and M. Simpson.

GEOGRAPHICAL ENIGMA.

ANSWER RECAPITULATIONS.

Correct answers from Jane Hay, - North Glanford, R. G. D., John Cameron, P. C. Shafer, S. B. Ganton, S. R. Brown, P. S. Stenataugh

Problem in Mental Arithmetic.

Answer, Chas. \$300, Sam, \$450, Peter, \$1750. The solutions to this question are too

C. Shafer.

ARITHMETICAL PROBLEM.

At the end of the 5th year there would be \$212 due, and if the rate is 10 per cent. $\frac{1}{n}$ of the \$212 or \$19% is interest, and \$212-19% - \$1925 the last instalment of principal. The 4th instalment is \$224, from which we subtract \$19% the interest on the last payment for I year, then i of the remainder is the the interest on 4th payment, = \$1874 and the 4th payment of principal is \$186 it - and proceeding thus-subtracting from each payment the interest on all the instalments we have already found, and taking h of the remainder in each case as the interest on that instalment, and counting the difference between that it erest and the sum of which it is their part,-the principal for that payment,we find that the person may give \$903 and P. C. SHAFER.

North Glanford, July 4th, 1868.

We give the above solution, though we do not exactly like its form, it being the only one sent us, showing the correct answer by Compound Interest, which we deem the conditions of the question require. We also give below, another solution which shows the correct result if we work by simple Interest.

Each instalment - \$1000 ÷ 5 - \$200. Then 1st. payment, Interest included is \$260.

2nd.	44	44	66	\$24 8.
3rd.	44	+4	46	\$236.
4th.	44	44	44	\$224.
5th.	44	14	"	\$212.

The amounts of \$1 for 1, 2, 3, 4 and 5 yrs. at 10 per cent. are respectively \$1:10, \$1:20, \$1:30, \$1:40 and \$1.50, and the present values of the several payments are \$260 ÷ 1:10, \$248, = 1:20,\$236 ÷ 130,\$224 ÷ 140 and \$212 = 1:50. The sum of these results \$925:90% is the amount required.

S. B. GANTON,

Wellington Square, June, 8 '68.

ALGEBRAIC PROBLEM.

$$\frac{x^{\frac{1}{2}} \cdot 8}{x^{\frac{1}{4}} \cdot 2}$$
hence $7x = x \cdot 10x^{\frac{1}{2}} \cdot 16$
or $x + \frac{1}{4}x^{\frac{1}{2}} \cdot \frac{1}{8}$

$$\frac{1}{4}x \cdot x + \frac{1}{4}x^{\frac{1}{2}} \cdot \frac{1}{8} = \frac{1}{8}$$
wherefore $x = -\frac{1}{4} + \frac{1}{4} = 1$ or

ergo x = 1 or 3 = 7 Ans. H. McKAY, Jorseyville

We have also received a correct answer from J. Cameron. The statement of this problem was misunderstood by S. R. Brown and S. B. Ganton, both of whom sent correct Superintendents, will meet at the same time.

solutions according to their understanding

MATHEMATICAL PROBLEM.

lengthy for our space. We may give one at some future time if thought desirable.

Correct answers from S. B. Ganton and P. 35 miles, and the one east 50 in five hours. Let x - the distance sailed by the latter

then, $\frac{1}{10}$ x = distance sailed by former in the

and $\frac{7}{10}x + 35 = \text{her total distance.}$

Hence
$$x = (\frac{7}{10} \times 35)^{\frac{2}{4}} (50)^{\frac{7}{4}}$$
 (Euc. I. 47.)
or $\frac{\delta 1}{160} \times \frac{2}{3} = 49x \approx 3725$

whence $x = 146 \frac{4}{51}$ or -50.

THEN BY TRIGONOMETRY.

. . . arith. com. 7.835414. 147.08 1.698970. 10.000000.

Sin. 200 I min, nearly . .

Hence, the distance is 146 4 miles, and the COURS ABOUT N. 20° W. PLANE SAILING.

It will, of course, be noticed that the negative values satisfy in case of returning.

H. McK..Y.

Jerseyville, Ont.

We have also received correct answers from S. R. Brown, and S. B. Ganton. Another party sent us a solution in which he obtained the right distance, but not the right' angle.

Solutions for this department should be sent in early as we frequently receive the same too late for insertion.

Educational Intelligence,

LOWER CANADA.— The report of the Superintendent of Public Instruction for 1866, just published, gives the number of primary schools as 3,586, with an equal number of teachers, and an attendance of 178,961; second class schools \$20, with 1,114 teachers, and 26,-468 pupils; and 17 superior, normal and special 468 pupils; and 17 superior, normal and special schools, with 126 teachers and 1,451 pupils; in all 3,826 schools, 4,829 teachers and 206,820 pupils. The increase of schools of all kinds during the year was 120; merease of pupils, 4,172; in amount of school contributions of all kinds, \$49,618—more than ten times the increase for 1865. Since 1853 the increase has been, in schools, 1,474; in pupils, 98,526. There were 138 Protestant Dissentient schools with 1,467 pupils, and 50 Catholice check with with 4,467 pupils; and 59 Catholic schools with 1,433 pupils.

UNITED STATES .- The National Teachers' Association will hold its next meeting in Nashville, Tennessee, August 19th, 20th and 21st. The senate chamber and the hall of the representatives have been tendered to the Association, and preparations are being made to give the members a hearty reception. The railroads entering Nashville will carry delegates and members to and from the meeting at half fare. Probably the same favor will be extended by the railroads throughout the country. It is hoped that afull representation will be present. The National Normal School Association and National Association of School

GREECE.—In 1835, there were in all Greece only 17 primary schools, with 721 pupils; 21 secondary schools, with 2528 pupils; and 3 incomplete gymnasiums. In 1866 these had increased to 942 public schools for boys, with 44,000 pupils; and 89 private schools, with over 5,000 pupils; 125 public schools for girls, with 8,481 pupils, and 41 private schools, with 2,000 pupils; and other schools with an attendance of 8,600. There were, besides, 123 public secondary schools, with nearly 7,000 scholars and 294 teachers; 6 private schools of the same class for boys, with 250 scholar, and 6 for young ladles, with an attendance of 660; and 16 gymnasiums, with 1,900 students and 100 professors. The total number receiving GREECE.-In 1885, there were in all Greece 100 professors. The total number receiving instruction in the schools was 76,000. The University of Athens has 1,200 atudents and 62 professors.

. SYRIA.-The desire for the education of the native Syrian women has now spread to Damascus, and many influential Greeks, Roman Caticlies, and Jews baye united in a petition to the Ladies' Syrian Education Society, entreating them to extend their operations to this, the most ancient city in the world. At Mrs. Bowen Thompson's recent visit to Damascus she was waited on by a deputation of upcus she was waited on by a deputation of up-wards of fifty Greeks, several priests, many Jews and even Moslems, entreating her to open an English Girls' School for the Damascenes similar to that at Beirut. As a proof of their carnestness, many put down their names as subscribers for the free admission of the poorer girls. They are convinced that the foundation girls. They are convinced that the foundation of the moral and social improvement of the community must be laid in the education of the women: and they have seen the good effects of the training in the English schools established at Beirut and Lebanon.

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