in teaching arithmetic to beginners should be given to mental exercises.

The old system of first learning the rule and then "doing the sum" is fast becoming a thing of the past. The rule is best learned by working the question, analyzing the principles, and explaining the reasons.

To require a pupil to learn and understand a self. rule before he is permitted to see its principles illustrated by simple practical examples, places him somewhat in the position of the boy who was forbidden by his i other to go into the water till he had learned to swim.

In order to teach arithmetic, as well as other subjects, successfully, the teacher should have a thorough knowledge of the subject, a love for the employment, and an aptitude to teach. These are indispensable to success. The subject should be taught in classes; much time is saved by this Considerable time should be devoted to oral illustrations in each class. Individual assist-If the class is enance should be seldem given. gaged at an exercise they should work all the problems they can, marking any they cannot solve. Those difficult problems should be considered at the next recitation—the principle pointed out and be practical, be vigilant, and success is sure to fol-indirect assistance given. Should any member of low your efforts.

the class be successful in solving it, he should, after sufficient time has elapsed, go to the blackboard and show his work.

The action of mind upon mind is also a powerful BY S. G. BEATTY, PRINCIPAL OF ONTARIO BUSINESS stimulant, in a class, to exertion, and will usually create a zest for the study. The mode of analyzing and reasoning, too, of one scholar often suggests new ideas to others in the class.

The class should be composed of pupils of, as nearly as possible, equal capacities and attainments. If any of the class learn more quickly than others,

of the blackboard. When a principle is to be de-scarcely yet been thought of, except by such teachmonstrated, or an opinion explained, if done upon ers as make a specialty of the subject. the blackboard, all can see and will usually understand it at once. also be used in illustrating squares, cubes, solids, and many other points in arithmetic. should be without them.

ing a lesson in arithmetic, viz., that of disciplining and social relations of life. the mind, and making a practical application of calling, vocation or profession of which it is not the principles involved. Many teachers overlook, the mouth-piece. It embodies thoughts in a visithese two objects and therefore are not successful ble language. Under its magic power ideas assume in teaching the sub, et. Their pupils may be able tangible form, and the eye may trace the operations to do all the question: under the rule in the book, of the mind. As a qualification for business it is but fail in applying the principle when a practical of the first importance, and often goes far in the problem is given.

while they loathe dullness. Every example should, advertisements of business men, for clerks, bookbe analized, the "why and wherefore" of every keepers, etc., and it will be observed that they step in the solution should be required, till the usually require the applicant to apply in his own learner becomes perfectly familiar with the process hand-writing.

of reasoning.

The motto of every teacher should be thorough-Without it the great ends of the study are pression in his favor. defeated. In securing this object, much advantage scarcely any position in which a man may be placed is derived from frequent reviews. Not a recitation where a good hand-writing will not be of great should pass without practical exercises being given value. It is always admired and appreciated. besides those assigned for the lesson.

Mental exercises, as I said before, are very useful. They make ready and accurate arithmeticians and afford excellent means to arrest and prevent habits of mechanical cyphering and copying

The habit of telf-reliance is invaluable in study. To acquire this habit the pupil, like a child learning to walk, must be taught to depend upon him-Therefore, when assistance is required, it should be given indirectly; not by taking the slate and solving the problem for him, but by explaining the meaning of it, or illustrating the principle on which the operation depends, by sup-posing a familiar case. In this way the pupil will be able to solve the questions himself, and his eyo will sparkle with the consciousness of victory.

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

Then, to recapitulate : be lively, be thorough,

Penmanship in Public Schools.

COLLEGE, BELLEVILLE.

The importance of Penmanship as a branch of study in our public schools is of late years be-ginning to be properly appreciated. The question, "Can all children of average ability and a proper use of the muscles of arms and hands, be taught they should take up an extra study, or be given to write a good hand? —so often asked, is now additional examples to solve, so that the whole answered in the affirmative by every qualified, exclass may advance together.

The blackboard should be the teacher's slate. question in natural order—"How can this grand Scarcely a recitation should pass without the use result be best and somest brought about?" has of the blackboard. When a principal is to be described to the property such teach.

A moment's reflection will suffice to convince any Geometrical diagrams should one of the importance of this art. Its diffusion is nes, solids, so general among all classes that it may with pro-No school priety be styled the universal art. Turn our thoughts which way we will, we find the art of Two objects, at least, should be aimed at in giv- writing intimately connected with all commercial g a lesson in arithmetic, viz., that of disciplining and social relations of life. There is no trade, mind of an employer towards making up for other deficiencies. When a young man goes in pursuit The attention of the class can easily be secured deficiencies. When a young man gres in pursuit by throwing life and variety into the exercise, of employment, the first thing he is asked to do is Animation and variety always delight children, to give a sample of his hand-writing. Read the Let a man in business circles step up to a desk and write some document in a clear, free, bold hand, and he will at once create an impression in his favor. The truth is, there is

When we reflect, and take into consideration it