

mercury in the tube is filled with air. How would you convince him of his error?

(d) Your class being now familiar with the principle taught in (b), outline your method of teaching the relation between the volume of a gas and the pressure to which it is subjected, so as to lead to a generalization (Select your own apparatus)

3. A class is to have a first lesson on the nature of a fruit.

(a) What work in Botany should the pupils have already done, and why?

(b) What material would you place in their hands and on what grounds would you make your selection?

(c) Indicate your method of leading the class to distinguish between a true fruit and a pseudocarp, selecting your own material.

4. (a) What microscopic work would you take up with a fourth Form class

in Botany before making use of prepared slides, and why?

(b) What educational value do you attach to making accurate drawings of microscopic objects?

(c) You are about to prepare a set of botanical slides for use in class work from year to year. Give what you would consider a suitable list with reasons for your selections.

5. (a) Assuming that fishes and batrachians have been studied, outline your plan of conducting the study of such a type as the turtle or the snake.

(b) Specify the drawings you would have the class make while engaged on the type you select, and also what you would consider the best method of indicating or describing in a sketch-book the important points or features in a drawing.

(c) What use would you make of plates and figures from text-books in class work?

## BOOKS AND MAGAZINES.

In the January number of *Scribner's Magazine* Theodore Roosevelt begins his account of the Rough Riders. The first instalment is entitled "Raising the Regiment," and is written in an attractive style, unmarred by exaggeration. The next item on the list of contents is a story, "Or the Fever Ship," by Richard Harding Davis. It is surely time that Mr. Davis, popular although he seems to be, should set about saving his own ships. "The Entomologist," chapter 1, by George W. Cable, belongs to an entirely different school, the atmosphere is quiet, delicate and true, and the artistic rendering wholly desirable. Special mention should be made of "Letters," by Robert Louis Stevenson, "Search Light Letters," by Robert Grant, and of "The Field of Art," which contains "Mural Paintings in American Cities," by Russell Sturgis.

"Three Little Spanish Princesses," by Isabel McDougall, opens the January number of *St. Nicholas*. It is an article deserving of much praise, not only for its historical worth and interesting presentation, but for the reproduction of some of Velasquez's most attractive work. "A Harmless Earthquake," by Helen A. Hawley, is an amusing incident, full of national character and well told. "The Story of Betty," chapters 1 and 2, by Carolyn Wells, is a serial which promises to be amusing, breezy and wholesome. In the excellent list of contents mention should be made of a good article on "Intercollegiate Basket-ball for Women."

Among the interesting articles relating to art and industry in the January number of the *Cosmopolitan*, special mention should be made of "The Making of Stained Glass Windows."