

secretion, excretion, and respiration; the motor, nervous, and sensory functions; and the structure of the various organs by which these operations are performed. A note-book with careful outline drawings of the chief structures studied anatomically together with explanations of these drawings, and the study of a good text-book are essential.

Botany. One-half to one unit may be offered. The preparation in botany should include a study of the structure and elementary physiology of the seed plants, ecology, the natural history of the plant groups, and classification. The laboratory method of instruction should be emphasized, but no further than can be done with a simple magnifier. Accurate drawings and concise note-books should be prepared by the student.

Zoology. One-half to one unit may be offered. The preparation in zoology should be along the same lines as those laid down for botany. It should be such as to render the student familiar with the salient characteristics of each of the animal sub-kingdoms. This can be accomplished only by a laboratory study of at least of one type animal under each sub-kingdom.

Geology. One-half to one unit may be offered. The study of geology should include an examination into the causes now in operation as throwing light on those which have operated in the past, followed by a sketch of historical geology. This will involve a presentation of the following topics: atmospheric agencies; the work of underground and surface waters; the work of the sea; internal geological agencies, such as volcanic activity, earthquakes, and slow movements of the earth's crust; structural geology, or the study of rock forms; and finally, physiographic geology, or the interpretation of land forms in the light of their geological history. The text should be supplemented by an examination of rocks, minerals, fossils and by field work, and the pupil should record his observations in a note book.

Drawing. One-half to one unit may be offered. The student should be able to show ability to sketch free-hand geometrical figures, such as circles, spirals, polygons, pyramids and cylinders; also common objects, such as chairs, tables, animals, bones, flowers. He should be able to copy, by enlarging or reducing its dimensions, the picture of any ordinary object.

Bookkeeping. One-half unit may be offered. A full term's course must be taken in this subject with recitations five times a week. When a commercial course is given and more time required for this subject an additional half unit may be allowed.

Vocational Subjects. The subjects of manual training, domestic science, agriculture, commercial geography, commercial arithmetic, may