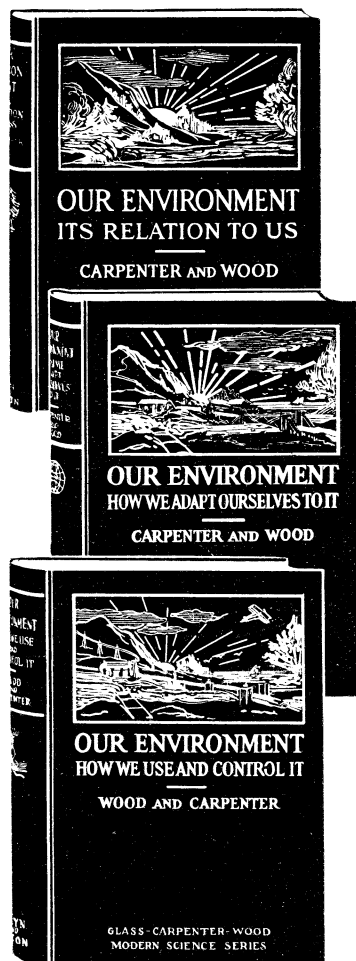


THE MODERN SCIENCE SERIES: Its Objectives

THE THREE YEARS' course in general science has two definite, practical purposes: first, to furnish a fund of scientific information to help pupils interpret their environment, and, second, to help young students to attain a habit of clear thinking from cause to effect and back from effect to cause.

In achieving these two purposes, the Modern Science Series, which might aptly be called the What, How, and Why of Science, comprehends seven important objectives, comparable to the seven objectives which are the goal of modern secondary education:



1. Attitudes of Appreciation—A sympathetic understanding of the slow, sure, step-by-step method of scientific investigation and of experimentation by the use of the scientific method.

2. Attitudes of Understanding—An interpretation of the countless items of scientific fact appearing daily in newspapers and magazines.

3. Relation of Science to the Home—A treatment of factors of the environment closely related to the home—methods of lighting, heating, and ventilation; sound-communication; the value and use of water, food, fuel, and clothing.

4. The Health Objective—An understanding of personal health control which shall guarantee improved home and community health control.

5. Informational Objectives—A dissipation of old superstitions and prejudices by the acceptance of many facts of natural phenomena, thus developing openmindedness.

6. Relation of Science to Other Fields of Knowledge—An intricate pattern woven of the warp of science with the woof of the arts, the classics, literature, history, and mathematics.

7. The Leisure Time Objective—An opening into attractive paths and byways for the pursuit of pleasant hobbies by means of numerous home, school and field workshop problems and experiments.

A co-ordinated course in science, extending over a three-year program demands a continuity of development from the concrete concepts of the first-year book, to the simple, abstract principles of the final book of the series—a progression akin to the mental development of the pupil during those three years. This demand is met in the Modern Science Series by a gradual pyramiding of emphasis upon the fundamental principles of general science through constantly recurring topics intensively built up.

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