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Review - The Architecture of Molecules

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REVIEWS

The World of Living Things, Paul F. Brandwein, Alfred D. Beck, Violet Strahler, Leland G. Hollingsworth, Matthew J. Brennan, Harcourt, Brace & World, Inc., 1964, New York.

This book is highly recommended for those school systems who are looking for some departmentalization in their junior high science program. It can be easily incorporated into a year biological science program for seventh or eighth grade. The accompanying lab manual and tests contribute to its worth. Using the two kingdoms, plant and animal, the book proceeds from the simplest to the more complex building on each succeeding plant or animal studied. This course would serve as a preparatory course for the BSCS Programs in many of our high schools. The book used the investigation approach and asks many interesting and thought provoking questions as the students read it. The level of writing is held to that of a seventh or eighth grader and this makes it easier for the student to adequately comprehend the material. This book is a must for those who are looking for a good, up-to-date, authoritative text for a junior high science course.

Reviewed by Gerald H. Krockover
Middle School, Bettendorf, Iowa

The Architecture of Molecules. Linus Pauling and Roger Hayward. Freeman and Co., 1964.

The combination of Dr. Pauling's clearly brilliant and succinct prose, plus the brilliantly clear artistry of Mr. Hayward produces an introduction to the architecture of molecules which should grace every high school classroom where chemistry is taught.

The book is organized so that the reader need not have an elaborate background in chemistry to follow the development of the topic.

Dr. Pauling provides a verbal description of each structure and on the facing page Mr. Hayward provides a color plate illustration.

Through a series of 57 plates, the author develops molecular structure from

the simplest concepts of the atom, up to such advanced topics of clathrates, polypeptide chains and antiviral molecules.

Dr. Pauling permits some of his sly humor to creep in, which does not at all detract from the quality of the book. He says, for example, in discussing the view inside a diamond crystal that it is "as it might appear to a very small person, with height about equal to the diameter of a carbon atom."

Though the price of the book may seem high (\$10.00) in terms of pages purchased (116), one should not judge the price on the basis of quantity alone. Its quality makes it inexpensive at twice the price.

Recommended for high school students and teachers.

Reviewed by Darrel Hoff
State College of Iowa, Cedar Falls

The Origins of Modern Science is destined to be a classic. It is a penetrating study of the beginnings of modern science.

With engaging wisdom and literary skill, Professor Butterfield illuminates the dynamic growth of science beginning with the impetus theory of the late Middle Ages. He shows how bold, original thinkers like Galileo, Bacon and Copernicus ventured outside the strictures of Aristotelian physics to overcome scholastic restraints. He also traces the impact of Newton, Harvey, Boyle and others upon the thinking of their times and their effect on other modes of thought. His examination brings the reader to the 18th century and the threshold of modern-day science.

Reviewed by Herbert Butterfield
Collier Books, New York

With the school year one-half over I am sure many of you, as science educators, have used references in your classes which may be of benefit to others teachers in the state. A short review in the Iowa Science Teachers Journal would inform your colleagues as to what is available. Send them to Verne Troxel, University High School, University of Iowa.