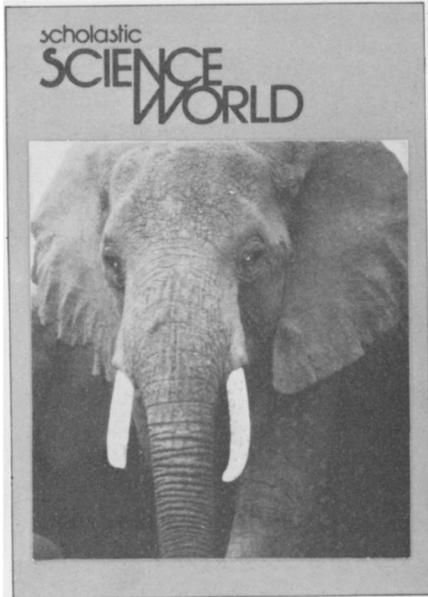


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ual to assist the student are many tables on solutions, pH, weights and measures, respiration and definitions. Many of the laboratories could be used in an advanced high school physiology course.

I recommend this manual as a sound aid to the study of human physiology when used in part or in total.

Clyde Joel Captenter
Moses Lake High School
Moses Lake, Washington

**LABORATORY INVESTIGATIONS IN
HUMAN PHYSIOLOGY**

by George K. Russell. 1978. Macmillan Publishing Company, Inc. (866 Third Avenue, New York 10022). 347 p. Price not given.

This very good laboratory manual is intended to be used in undergraduate human physiology courses and is designed to accompany any textbook. I found that the manual itself does a very good job of teaching material related to each investigation. However, those instructors who consider using this manual should be aware that it presumes a knowledge of introductory college biology and introductory college chemistry. The manual also makes a very good resource tool for the high school teacher. Some of the exercises could be done by high school students, and others could be done as class demonstrations.

The manual is set up as a consumable text with perforated pages, which are also punched for use in loose-leaf notebooks. Each exercise begins with a statement of objectives and up to four pages of introductory material. This is followed by a complete list of materials, a thorough description of procedure, a series of "study questions," a list of references, and pages designed to record results and conclusions. I found the "study questions" particularly significant because they help to relate actual observations with practical considerations related to the content of the exercise. Frequently these questions require library research and considerable thought-provoking analysis. Bravo! This certainly beats simply looking back in the exercise to find the answer.

The author enhances the student's interest in human physiology by providing experiments that make use of the students themselves as experimental subjects; yet, much care has been exercised to provide experiments that are safe and still represent all the aspects of physiology.

The appendix includes an annotated listing of films and videotapes that the author feels will help to increase student

interest and motivation because the films unite theory with practical problems and considerations. Another useful feature of the manual is the inclusion of the name and address of suppliers of unusual equipment and reagents.

I strongly recommend this manual for use in college laboratories and secondarily as a reference and idea book for high-school teachers.

Calvin Reitsma
Covenant Christian High
Walker, Michigan

Zoology

**GOATS, SHEEP, AND HOW
THEY LIVE**

by Marie M. Jenkins. 1978. Holiday House (18 East 53rd Street, New York 10022). 157 p. \$7.95.

This text deals with a complete approach to the history, evolution, physiology, and behavioral patterns of goats, sheep, and other similar animals. The book should be appealing and informative to any person who has an interest in animals. It is written in an easy fluent manner and contains suitable material to enrich the zoological backgrounds of junior and senior high school and college students.

A great deal of research has gone into the author's presentation. Many of the chapters make reference to research by authoritative sources that have been involved in conducting similar research.

The author continually emphasizes the need for conservation and preservation of most species to ensure their survival. Throughout the entire book, emphasis is placed on the interrelationships and interdependencies of these animals and their environments.

A very attractive feature of this well-written book is the drawings and illustrations of the various species of goats, sheep, and what the author refers to as goat-sheep puzzlers. Historically the book has very good organization. It starts with animals that existed in the past and continues to modern times.

Several of the chapters made mention of the way in which it is thought goats and sheep migrated from Asia to America. A bridge of land between Siberia and Alaska called the Beringer that existed before the ice-age served as a migratory route.

The chapters that deal with the progressive development of physiological characteristics through natural selection and adaptation give a concise description of the need for these changes. The development of special