equipment list and a preparations list, is available. This manual should find extensive use in introductory biochemistry courses, particularly one-semester survey courses. Krogman is to be congratulated on his conceptualization and execution of this manual.

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Source Books

McGRAW-HILL ENCYCLOPEDIA OF SCIENCE AND TECHNOLOGY, ed. by D. N. Lapedes. 3rd ed., 1971. McGraw-Hill Book Co., New York. 15 vol., $360.00.

This is the outstanding reference work of its kind. The third edition represents more than a thorough updating of material: according to the editors, almost 1,000 articles and more than 2,500 illustrations have been added. I was sent one volume for review; it indicates that the encyclopedia provides remarkably complete and authoritative information and provides it in an easy and attractive fashion. (I consulted my colleagues; they agreed.) The frequent illustrations are the most effective and relevant I've ever seen in any encyclopedia. In general, the editors have made certain that each article is understandable to the nonspecialist. It is my opinion that an interested high school senior with a good background in science would have no difficulty understanding over 70% of the articles; the more technical articles, of course, would require considerably more sophistication and scientific background. Because of the broad scope of this kind of encyclopedia it would have been easy for the editors to overlook many biologic concepts, but I am pleased to report that such omissions are few.

This encyclopedia is a must for any school or public library. It presents current and definitive information on scientific and technologic subjects in an understandable and attractive manner.

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A RESOURCE BOOK OF TEST ITEMS FOR BSCS GREEN VERSION "HIGH SCHOOL BIOLOGY," by Biological Sciences Curriculum Study. 1971. Educational Improvement Corp., Boulder, Colo. 154 p. $6.95.

RESOURCE BOOK OF TEST ITEMS FOR "BIOLOGICAL SCIENCE: AN INQUIRY INTO LIFE," 2ND ED. 1971. [Same issuance.] 179 p. $6.95.

These are extensive revisions of the experimental test booklets published in 1966. They provide items to measure the mastery of objectives in the BSCS courses. The items for each chapter are designed to measure two arbitrarily selected levels of ability; however, the authors (who are not identified) have wisely stated that any such category system is only valid when compared with what has gone on in the classroom.

Except for a few free-answer questions the items are multiple-choice. In general the multiple-choice items are far superior to the free-answer items. The former show evidence of careful editing—an improvement over the original booklets. Most noticeably, the multiple-choice items are relatively free of technical flaws and unnecessary verbiage. The free-answer questions, however, suffer from a lack of careful editing and of imagination. The least that could be expected is a larger number of questions permitting the student to use a greater range of newly acquired knowledge and skills in considering solutions to societal problems.

Although of value to the teacher, the introductory sections are uneven. One example is a chapter devoted to the assessment of inquiry skills with investigative activities—"laboratory prac-