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BIBLIOGRAPHIC GUIDE FOR ADVANCED PLACEMENT, CHEMISTRY.

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NEW YORK STATE EDUCATION DEPT., ALBANY

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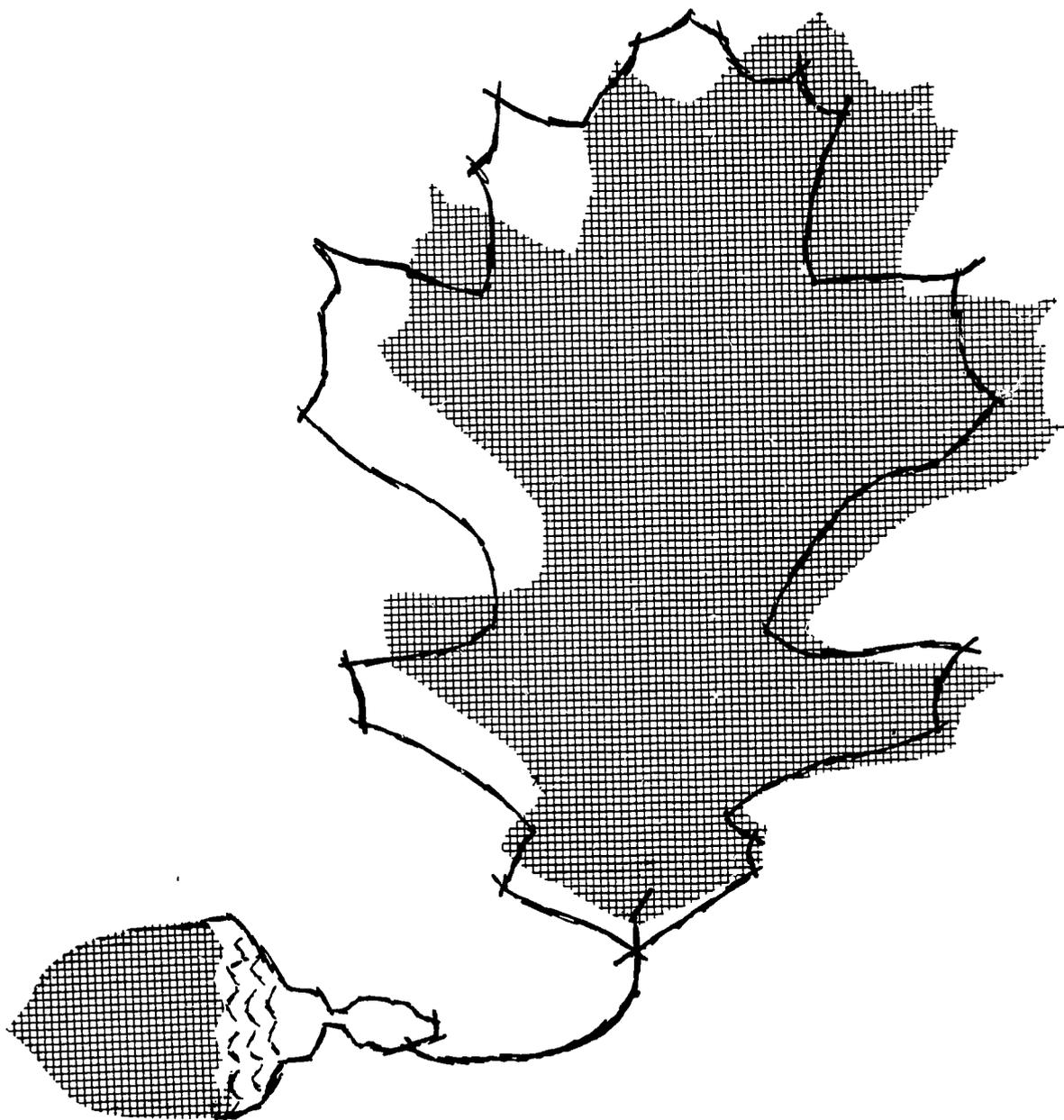
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Bibliographic Guide For advanced placement



CHEMISTRY

SE 000 648

Foreword

The provision of adequate printed and published materials in support of Advanced Placement programs in the secondary schools of New York State is considered of paramount importance by the Education Department. The quality of the instructional program is directly related to an abundance of well-selected books and other materials which satisfy the immediate research and reference needs of AP pupils and teachers and which are adequately challenging in terms of reading and content level.

Because of the complexity of modern educational programs and the constantly-growing number of books and other published materials available, the proper selection of materials for schools and libraries has become an increasingly difficult task. It is readily apparent that bibliographic aids, carefully and selectively compiled, are necessary to assist teachers and librarians in choosing appropriate materials for AP programs. This bibliography is an outgrowth of that need.

The series of bibliographic guides were developed under the direction of Leonard T. Kreisman, formerly, Associate, Bureau of Teacher Education, with the assistance of: Carol Byerly, College Entrance Examination Board; Robert Kelley, Supervisor, Education for the Gifted; Helen Rice, Curriculum Coordinator, Irondequoit School System; Lillian Shapiro, Board of Education, New York City; Frank A. Stevens, Chief, Bureau of School Libraries; Esther M. Swanker, formerly Library Coordinator, Schenectady Public Schools; and Alden Vaughan, Columbia University.

This bibliographic guide was prepared for the Department in the spring of 1965 by Harry Williams, chemistry teacher, and Clyde King, librarian, both of the Horace Mann school, New York City, and reviewed in final form by Hugh B. Templeton, Chief, Bureau of Science Education.

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Procedures for 50% reimbursement are the same as for other eligible materials under an approved Title III acquisition project. Detailed instructions are given in the Title III NDEA Planning Guide published by the State Education Department. Materials can, of course, be purchased by districts using only their own funds; but if you wish reimbursement under Title III some general rules are given below:

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2. Federal regulations stress the importance of the project in considering items for prior approval.
3. Librarians and teachers should not apply directly to the State Education Department, but through their chief school officer.
4. Textbook quantities of reference books cannot be approved under Title III.

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ESEA Title II provides for the improvement of selection methods and the purchase of printed and published materials in support of special program needs. The materials listed in this bibliography are, therefore, eligible for purchase with Title II funds and satisfy the high priority of Title II for special educational programs. These materials are highly recommended for your consideration.

For further information on ESEA Title II and NDEA Title III, contact the appropriate program coordinator at the New York State Education Department. For additional copies of this bibliography or for the other ten AP areas contact the Publications Distribution Unit, New York State Education Department, Albany, New York 12224.

ADVANCED PLACEMENT BIBLIOGRAPHIC GUIDE: CHEMISTRY

Chemistry

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- Addison, William Eric. Structural Principles in Inorganic Compounds. Wiley. 1962. 183 p. Pa. \$3.25.
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- Barrow, Gordon Milne. Introduction to Molecular Spectroscopy. McGraw-Hill. 1962. 332 p. \$11.50.
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Journal of Chemical Education. Pub. by the Division of Chemical Education of the American Chemical Society, 20th and Northampton Sts., Easton, Pa. \$4.00 per year.

AUDIO VISUAL

CHARTS

Chart of the Atoms. No. 4854. Welch Scientific Co., 7322 N. Lindner Ave., Skokie, Ill. 60076. \$7.50.

CHARTS

Electron Energy Levels Chart. No. 4837. Welch. 29" x 42". \$7.00.

Oxidation-Reduction Half-Reactions Chart. No. 4843. Welch. 42" x 58".
\$5.00

Relative Sizes of Atoms and Ions in the Periodic Table. No. 4844.
Welch. 42" x 58". \$5.00. Listed as Chart of Atomic Sizes.

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Ionization Energy. Film. 22 minutes. CHEM Study. Purchase: Color.
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Mass of the Electron. Film. 18 minutes. PSSC. Purchase: B & W.
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Molecular Spectroscopy. Film. 23 minutes. CHEM Study. Purchase:
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Transuranium Elements. Film. 23 minutes. CHEM Study. Purchase:
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Vanadium--A Transition Element. Film. 22 minutes. CHEM Study.
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Vibration of Molecules. Film. 12 minutes. CHEM Study. Purchase:
Color. \$90.00. Day rental: \$6.00, 3 school days.

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BOOKS

- Anderson, David Leonard. Discovery of the Electron. Van Nostrand. 1964.
138 p. Pa. \$1.50.
- Andrade, Edward Neville da Costa. Rutherford and the Nature of the Atom.
Anchor. 1964. 218 p. Pa. \$1.25.
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See Malm, Lloyd Ephraim.
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