

## SCIENCE FAIR HEADQUARTERS

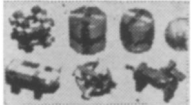
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12 Different puzzles that will stimulate your ability to think and reason. Here is a fascinating assortment of wood puzzles that will provide hours of pleasure. Twelve different puzzles, animals, and geometric forms to take apart and reassemble, give a chance for all the family, young and old, to test skill, patience and, best of all, to stimulate ability to think and reason.  
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Stock No. 60,632Q -----16" Diam. -----\$7.00 Ppd.



### NEW WORKING MODEL DIGITAL COMPUTER

#### Actual Miniature Version of Giant Electronic Brains

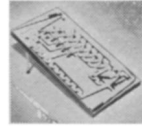
Fascinating new see-through model computer actually solves problems, teaches computer fundamentals. Adds, subtracts, multiplies, shifts, complements, carries, memorizes, counts, compares, sequences. Attractively colored rigid plastic parts easily assembled. 12" x 3 1/2" x 4 3/4". Incl. step-by-step assembly diagrams, 32-page instruction book covering operation, computer language (binary system) programming, problems and 15 experiments.  
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Stock No. 70,946Q -----(Intro. price) -----\$16.00 Ppd.



### BUILD YOUR OWN ATOMIC ENERGY LAB

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## LETTERS

# to the editor

## Before the Japanese

Sir:

I have, since the late 1950's been directly involved in development of aluminum magnet wire (SN: 1/20 p. 63).

Through the efforts of many individuals in both the Rea Magnet Wire Company and its parent company, Alcoa, this development has led to a wide spread acceptance of aluminum in transformers of various types, so that at this time a high percentage of all distribution transformers is being produced with aluminum strip and foil. The Rea Magnet Wire Company, who pioneered the use of aluminum magnet strip and foil, is now the major manufacturer of aluminum magnet strip, both bare for interleaving and insulated with various types of enamels.

I hope that somehow you will find it possible to make your readers aware of the true facts, which are that the only thing the major electrical manufacturers in Japan have been successful in, is deciding to do what major electrical manufacturers in the United States have been doing for several years.

*Evert A. Mol*  
Director of Research  
Rea Magnet Wire Company, Inc.  
Fort Wayne, Ind.

$$58 \times 10^4 + 61^2$$

Sir:

The feats of William Klein of CERN (SN: 1/20 p. 72) are truly amazing.

Like many another scientist who has not the help of either Mr. Klein or a computer, I too do sums in my head. With a much smaller base of known multiples and squares, I use decimals and their powers as fully as possible. For me,  $583721$  is  $58 \times 10^4 + 61^2$ .

*Wm. Cornelius Hall*  
President & Chief Scientist  
Chemtree Corporation  
Central Valley, N.Y.

# films OF THE WEEK

Listing is for readers' information of new 16mm and 8mm films on science, engineering, medicine and agriculture for professional, student and general audiences. For further information on purchase, rental or free loan, write to distributor.

**THE LIVING SUN.** 16mm, b&w, sound, 30 min. Depicts activities involved in outfitting an expedition which uses aircraft in flight as platform to observe a solar eclipse. Shows activities on board aircraft as the eclipse occurs, and presents and discusses several photographs taken on the expedition. Audience: senior high, college, adult. Purchase \$125 or rental \$5.40 from NET Film Service, Indiana University, Audio-Visual Center, Bloomington, Ind. 47401.

**MEDICINE MEN OF AFRICA: PART I.** 16mm, b&w, sound, 30 min. An English psychiatrist investigates the effectiveness of medicine men in Africa through interviews with Nigerian medicine men, their patients, and Nigerian physicians. Methods used by medicine men for diagnosis and treatment are shown. Audience: general. Purchase \$125 or rental \$5.40 from NET Film Service, Indiana University, Audio-Visual Center, Bloomington, Ind. 47401 (Co-production of National Educational Television and British Broadcasting Corporation).

**METHODS OF OBSERVING TRANSPARENT OBJECTS UNDER A MICROSCOPE.** 16mm, color, sound, 11 min. Principle of the physical mechanism of image formation in ordinary microscopy on a dark field, by phase contrast, and by interference contrast. Descriptive diagram is given of each method followed by characteristic views of typical objects. Audience: high school, college. Free loan with \$3.00 handling charge from Society for French American Cultural Services and Educational Aid, 972 Fifth Ave., New York, N.Y. 10021.

**THE MIGHTY ATOM.** 16mm, color, sound, 30 min. Surveys our efforts in the field of atomic energy and examines how these efforts will affect life in the 21st Century. Surveys accomplishments of our 20th century atomic scientists and suggests potential uses of the atom in the coming century. Free loan from Modern Talking Picture Service, 1212 Avenue of the Americas, New York, N.Y. 10036 (Part of CBS-TV 21st Century series).

**UNDERGROUND NUCLEAR WEAPONS TESTING.** 16mm, color, sound, 29 min. Explains the responsibility of the Atomic Energy Commission to test nuclear weapons and the various kinds of nuclear tests: developmental—to check out concepts of weapons design, proof tests—to confirm safety and design of weapons, checks on readiness, and tests to obtain information on effects. Audience: general. Free loan from AEC field libraries or Audio-Visual Branch, Division of Public Information, Atomic Energy Commission, Washington, D.C. 20545.

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