

## SCIENCE FAIR HEADQUARTERS

### CRYSTAL-GROWING KIT

Do a crystallography project illustrated with large beautiful crystals you grow yourself. Kit includes the book "Crystals and Crystal Growing" and a generous supply of the chemicals you need to grow large display crystals of potassium aluminum sulfate (clear), potassium chromium sulfate (purple), potassium sodium tartrate (clear), nickel sulfate hexahydrate (blue-green) or heptahydrate (green), potassium ferricyanide (red), and copper acetate (blue-green).



Stock No. 70,336Q -----\$9.50 Ppd.

### WOODEN SOLID PUZZLES



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.

Stock No. 70,205Q -----\$3.50 Ppd.

### GIANT WEATHER BALLOONS

Create a neighborhood sensation. Great backyard fun. Exciting beach attraction. Blow up with vacuum cleaner or auto air hose. Filled with helium (available locally) use balloons high in the sky to attract crowds, advertise store sales, announce fair openings, etc. Amateur meteorologists use balloons to measure cloud height, wind speed, temperature, pressure, humidity at various heights. Photographers utilize for low-cost aerial photos. Heavy duty neoprene.



Stock No. 60,568Q -----8' Diam. -----\$2.00 Ppd.  
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, 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. Stock No. 70,683Q -----\$5.98 Ppd. Detailed Programming Booklet For Experiments Stock No. 9080Q -----(50 Pages) -----\$1.00 Ppd.

### IT'S HERE—

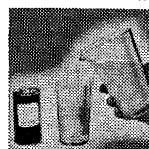
#### BIG, NEW DIGICOMP III

If you think DIGICOMP I was something—wait 'til you use DIGICOMP III! Loads of fun. Tiresome challenge! Actually works like electronic digital computer but needs no power. Adds, subtracts, multiplies, divides, memorizes 1st mechanical computer w/auto. switch action. 1st model designed for programming speed reduced by factor of million to 1—you can see what's happening. Demonstrates new math, computer techniques.



Stock No. 70,946Q -----(Intro. price) -----\$16.00 Ppd.

### NOW! WATER THAT CLIMBS UP HILL



Amaze your friends—loads of fun—perfect for Science Fair. Water actually flows up side of glass & siphons freely into other container. To stop flow—cut with scissors—watch it snap back. Secret's in special additive with long molecular structure—req. only 1/2 tsp. to glass. Friction reducing additive has all kinds of industrial, agricultural, experimental uses—a pinch even makes fish slide thru water faster. 3-oz. can enough for 84 pints of water. Instr.

Stock No. 41,086Q -----\$2.00 Ppd.

### "FISH" WITH A WAR SURPLUS MAGNET

#### Go Treasure Hunting on the Bottom



Great Idea! Fascinating fun and sometimes tremendously profitable! Tie a line to our 5-lb. Magnet—drop it overboard in bay, lake, river or ocean. Troll it along the bottom—your "treasure" haul can be outboard motors, anchors, fishing tackle, all kinds of metal valuables. 5-lb. Magnet is war surplus—Alnico V Type. Govt. cost \$50. Lifts over 150 lbs. on land—much greater weights under water.

Stock No. 70,571Q—5-lb. Magnet -----\$12.50 Ppd.  
Stock No. 70,570Q—3 1/2-lb. size -----\$ 8.75 Ppd.

Order by Stock No.—Send Check or M.O. Shipment same day received—Satisfaction or money back.

TEACHERS: Write for Educational Catalog Q-2

EDMUND SCIENTIFIC CO. 300 EDCORP BLDG. BARRINGTON, N.J. 08007

### MAIL COUPON for FREE CATALOG "Q"



EDMUND SCIENTIFIC CO., 300 Edcorp Building Barrington, New Jersey 08007

COMPLETELY NEW 1968 EDITION 148 PAGES—4000 BARAINS PLEASE RUSH FREE CATALOG "Q"

Name -----  
Address -----  
City ----- State ----- Zip -----

## 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.

**ALIVE-ALIVE-O.** 16mm, color, sound, 14 1/2 min. Depicts Veterans Administration nursing care program for veterans who have obtained maximum hospital benefits, but who have need for skilled nursing care. VA's service, as shown in film, provides optimum care, services and attention to enhance the patient's dignity and feelings of self-worth. Audience: general. Free loan from Veterans Administration Film Library (037B1), 810 Vermont Ave, N.W., Washington, D. C. 20420.

**THE IMPORTANCE OF MOTHER.** 16mm, color, sound, 24 min. The social bond is the means of survival for many species. The all important foundation on which a monkey's social relationships seem to be based is its first social relation, with its mother. Film discusses influence of the mother on child's personality, and impact of removing baby monkey from its mother at birth so that it does not have this first lesson in forming social relations. Audience: general. Purchase \$300 from Graphics Curriculum, P.O. Box 565, Lenox Hill Station, New York, N.Y. 10021.

**NEW HORIZONS FOR TOOL STEEL.** 16mm, color, sound, 29 min. Describes manufacturing of tool steel by most advance methods: massive hot pressing, consumable electrode remelting, and includes application data on the uses of tool steel in industry. Audience: trade and service groups, technical societies, business organizations. Free loan (borrower pays transportation) from Syndicated Films, Allegheny Ludlum Steel Corp., 1022 Forbes St., Pittsburgh 19, Pa.

**NORTHWEST ENGLAND.** 16mm, color, sound, 18 1/2 min. Shows the varied physical landscape and types of land use of the Lake District and the surrounding lowlands. Farming in both upland and lowland is depicted as are the important market center of Carlisle and the coal, iron, steel, shipbuilding and new light industries of the region. Audience: middle grades. Purchase \$225 from International Film Bureau, 332 S. Michigan Ave., Chicago, Ill. 60604.

**PLANT-ANIMAL COMMUNITIES: ECOLOGICAL SUCCESSION.** 16mm, b&w and color, sound, 13 1/2 min. Ecological succession—the long-term replacement of one biome by another—follows a predictable pattern that can be traced from either a bare rock stage or a water environment to the appearance of a climax forest. Tracing both pattern, film shows that succession is controlled to a major extent by climate and landform, but may also be strongly affected by man. Audience: high school. Purchase b&w \$75 or color \$150 from Coronet Films, 65 E. South Water St., Chicago, Ill. 60601.

**SAFE LANDING—LOCATION AND AID—RECOVERY.** MSC-67-365. 16mm, color, sound, 27 min. Story of the work performed by the Landing and Recovery Division of the Flight Operations Directorate at the Manned Spacecraft Center. Through the use of documentary coverage of actual missions and tests, the results of this work are shown from deployment of the main parachute to final deactivation of the recovered spacecraft. Audience: general. Free loan from National Aeronautics and Space Administration, Manned Spacecraft Center, AP2, Houston, Tex. 77058.

## LETTERS

# to the editor

### Teacher drain

Sir:

The article entitled "Teacher Drain to Canada" (SN: 3/23 p. 295) mentioned the fact that each teacher from Australia receives \$1,232 as a relocation allowance on his arrival in Canada.

As my wife and I are teachers who were recruited in Australia and are now teaching in British Columbia, I would like as much information possible about the relocation allowance.

J. Solan  
Chetwynd  
British Columbia  
Canada

(Recruiters in Australia and New Zealand represented municipalities in both Ontario and British Columbia. Recruitment policies were municipal, not national or provincial responsibilities. The relocation allowance was offered by Toronto recruiters, who hired more than 100 teachers. Ed.)

### Zoo keepers' applause

Sir:

The editors of the AMERICAN ASSOCIATION OF ZOO KEEPERS JOURNAL would like to congratulate you on your fine informative magazine. Much of the information you print is of special interest to our profession.

Mrs. Nicole Marble  
Tujunga  
Calif.

Address communications to Editor  
Science News, 1719 N Street, N.W.  
Washington, D. C. 20036

## SCIENCE NEWS

Copyright © 1968 by Science Service, Inc. Reproduction of any portion of SCIENCE NEWS is strictly prohibited.

Subscription rate: 1 yr., \$6.50; 2 yrs., \$11.50; 3 yrs., \$16.50. Special trial offer for new subscribers only: 39 weeks, \$3.43. Single copy, 25 cents. No charge for foreign postage. Change of address: Three weeks' notice is required. Please state exactly how magazine is addressed. Include zip code.

Printed in U.S.A. Second class postage paid at Washington, D. C. Established as Science News Letter® in mimeograph form March 13, 1922. Title registered as trademark U. S. and Canadian Patent Offices. Indexed in Reader's Guide to Periodical Literature, Abridged Guide and the Engineering Index. Member of Audit Bureau of Circulation. UNSOLICITED MANUSCRIPTS will not be returned unless accompanied by a stamped, self-addressed envelope.

Published every Saturday by SCIENCE SERVICE, Inc., 1719 N St., N.W., Washington, D. C. 20036. North 7-2255. Cable Address: SCIENSERV.

### ADVERTISING

L. D. Young, Advertising Director, SCIENCE NEWS, 1719 N St., N.W., Washington, D. C. 20036, Phone 202-667-8945.

Advertising Representatives: SCRIPPS-HOWARD NEWSPAPERS. General Advertising Department: 200 Park Ave., New York, N.Y., TN 7-5000; 400 N. Michigan Ave., Chicago, Ill., SU 7-3355; Suite 211, Braniff Building, Dallas, Tex., PL 7-3847; 908 E. Northland Tower, Southfield, Mich., 444-4595; 6363 Wilshire Blvd., Los Angeles, Calif., OL 3-0026; Room 1522, Philadelphia National Bank Building, Philadelphia, Pa., LO 3-6275; 100 California St., San Francisco, Calif., 989-5570; Suite 417, 3384 Peachtree Rd., N.E., Atlanta, Ga. 261-1571.