

UNUSUAL SCIENCE BARGAINS

Solve Problems! Tell Fortunes! Play Games!

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. 70,683-Q ----- \$5.98 Ppd.
Detailed Programming Booklet For Experiments Stock No. 9080-Q ----- (50 Pages) ----- \$1.00 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. 70,205-Q ----- \$3.00 Ppd.

SCIENCE TREASURE CHESTS

For Boys—Girls—Adults!

Science Treasure Chest — Extra-powerful magnets, polarizing filters, compass, one-way-mirror film, prism, diffraction grating and lots of other items for hundreds of thrilling experiments, plus a Ten-Lens Kit for making telescopes, microscopes, etc. Full instructions included. Stock No. 70,342-Q ----- \$5.50 Ppd.
Science Treasure Chest Deluxe — Stock No. 70,343-Q ----- \$10.50 Ppd.

Handy! Low Cost!

PREDICT AND ILLUSTRATE OVER 30,000 CHEMICAL REACTIONS

New Chemical Predictor excellent for teachers and students. Two charts of equations so arranged that any combination can be instantly selected—furnish detailed equation for the chemical reaction. Numerical data shows whether a reaction can occur, and if so, the extent and products of it. Manila-paper stock, 5 1/2" x 11". Stock No. 40,752-Q ----- 95¢ Ppd.

ATTENTION, JUNIOR SPACEMEN: New Parachute-Equipped

Rocket and Space Capsule Soar to 600 Feet Blast off and watch this amazing space-age toy soar with a tremendous surge of power up to 600 ft. At top of flight rocket and capsule disengage and float gently to earth each supported by its own parachute. Fully controlled—11 time delays to choose from. You launch again and again with straight up or slanting launches. Safe to use too—no chemicals, explosives. Extra strong rubber sling provides power. You just set the controls and release rocket from its launching pad with your foot. Capsule and parachute, rocket body and parachute, launching pad, sling and instructions. Stock No. 70,845-Q ----- \$3.50 Ppd.

Terrific for Amateur Meteorologists

SURPLUS GIANT WEATHER BALLOONS

At last . . . available again in big 8-ft. diameter. Create a neighborhood sensation. Great backyard fun. Exciting beach attraction. Blow up with vacuum cleaner or auto air hose. Sturdy enough for play; all other uses: with reasonable care (can be punctured by sharp objects.) 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 can utilize for low-cost aerial photos. Recent Gov't. surplus of heavy, black, neoprene rubber. Stock No. 60,568-Q ----- \$2.00 Ppd.

'FISH' WITH A WAR SURPLUS MAGNET

Go Treasure Hunting on the Bottom

Great Ideal Fascinating fun and sometimes tremendously profitable! Tie a line to our 5-lb. Magnet—drop it overboard in bay, lake, river or ocean. Trawl it along the bottom—your "treasure" haul can be outboard motor 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. 70,571-Q—5lb. Magnet ----- \$12.50 Ppd.
Stock No. 70,570-Q—3 1/2-lb. size ----- \$8.75 Ppd.
Stock No. 85,152-Q—15 1/4-lb. size ----- \$33.60 FOB
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., Barrington, N.J.

MAIL COUPON for FREE CATALOG "Q"

EDMUND SCIENTIFIC CO.
Barrington, New Jersey 08007
Completely new 1966 Edition. 148 pages. Nearly 4500 BARGAINS.
Please Rush Free Catalog "Q"

Name _____
Address _____
City _____ State _____ Zip _____

MEDICINE

Smallpox Cure Foreseen

► THE NEXT TIME a smallpox epidemic breaks out in India, a promising new drug developed in the United States may cure the disfiguring and often fatal disease.

IUDR is the shortened name of the drug, called 5-iododeoxyuridine. For a time it was tried experimentally on cancer patients, but with little success.

It was while Yale University scientists were trying to arrest the growth of cancer in 11 patients with advanced malignancies that IUDR was shown to inhibit the development of vaccinia virus infections in humans. None of the 11 had been vaccinated for 15 years, so all were vaccinated for smallpox before being treated with the drug.

Eight of the vaccinations failed to "take," thus indicating that IUDR had a potential for suppressing the mild pox virus infection brought about by vaccination. The three patients in which takes did occur had received the smallest dosages of the drug. The eight other patients were later vaccinated without follow-up IUDR injections and had normal takes.

Dr. Arnold D. Welch, chairman of

Yale's department of pharmacology, for the past three years has been working with officials of the Indian government, India's medical profession and the World Health Organization to set up a program of human trials of IUDR when the smallpox virus next attacks large segments of the population.

Although a vaccination program is under way and has been greatly expanded during the past 10 years, it is not reaching everyone, and epidemics still break out in India.

The first synthesis of the IUDR molecule was done at Yale in 1958 by Dr. William H. Prusoff as part of the pharmacology department's search for anticancer compounds.

The Food and Drug Administration has licensed it for human use as a treatment for the virus-caused eye disease, herpes simplex keratitis.

IUDR's unique value in combating specific viruses is its relative selectivity of action. It inhibits formation of the infectious DNA-virus while allowing the enzymes of the uninfected host to pursue their normal functions, Dr. Prusoff said.

MEDICINE

More Whites Get Leukemia

► NEGRO CHILDREN in Memphis and Shelby County, Tenn., have shown decidedly fewer cases of leukemia than white children.

During the 24-year period from 1939 to 1962 inclusive, 97 white children and 36 nonwhite children, mostly Negroes, were diagnosed as leukemic.

Children in the upper economic group, usually synonymous with whites in the South, had in general a greater likelihood of developing the disease than poor children. But the incidence of leukemia in the age group under five increased steadily in both economic groups throughout the 24-year period.

Although the highest risk was found in the youngest age group, a larger relative increase was seen in older age groups, particularly in children 10-14 years old. In children under 10, the leukemia rate increased faster among nonwhites and boys, but from 10-19 the rate increased faster among whites and girls.

The most notable observation in the study in Public Health Reports 81:598, 1966, however, is that the incidence of childhood leukemia increased remarkably after World War II, and stabilized in the later years of the study.

No definite reasons are given for the statistical findings, but the researchers say undoubtedly many factors have contributed to the recent rise in occurrence of childhood leukemia.

1. More children are surviving in-

fectious disease because of the use of antibiotics and sulfonamides, but the survivors are subject to the risk of developing chronic diseases, particularly leukemia, during early childhood.

2. The use of X-rays and radioisotopes for diagnosis and therapy has increased in recent years, and the effect of ionizing radiation has been demonstrated. Only a relatively small proportion of childhood leukemia cases may be accounted for in this way, however.

3. The use of toxic chemicals such as insecticides, household chemicals, paint, hair sprays, tobacco smoke and a variety of drugs that are potentially toxic has greatly increased and could be directly or indirectly implicated as a cause of leukemia in children.

4. Air and water pollution due to increased industries in Memphis could be to blame.

5. If a virus is the cause, the increased number of families with dogs that could be carriers may be a factor. Also, residential crowding has increased personal contacts.

Drs. Kathleen Hernandez and George Tokuhata of St. Jude Children's Research Hospital, Memphis, reported the study. Dr. Hernandez, then a post-doctoral epidemiology trainee, is now an instructor in pediatrics at the hospital. Dr. Tokuhata is chief of epidemiology at the hospital and assistant professor of preventive medicine, University of Tennessee, Memphis.