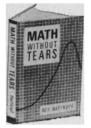
MATH WITHOUT TEARS



In lively non-technical language Roy Hartkopf gives you a basic understanding of many of the everyday applications of mathematics.

mathematics.

Emphasizing the practical aspects of math, the author avoids mathematical terms and jargon and takes the reader from simple counting to trigonometry and calculus

culus.

MATH WITHOUT TEARS is written with a light touch and is filled with interesting anecodotes, spiced with humor.

Learn math in the comfort of the common home at minimum cost. ORDER NOW:

5, plus 50¢ handling 10-Day Money-Back Guar EMERSON BOOKS, INC., DEPT. 134C

Buchanan, N.Y. 10511



RITE TODAY to find out how of an areceive a different, interest- and valuable Mineral Specimen in month, with detailed "comeve" fact sheet. Get started today this fascinating and educational by. FREE Natural Ruby Crystal when you join. Write today.

Circle No. 125 on Reader Service Card



ARE YOU READY TO GO METRIC?

New °F and °C Thermometer with unique Maxi-Mini Feature



Tells what the temperature IS Tells what the temperature WAS

This Maxi-Mini thermometer with two scales simplifies the Change-over to the metric system. The present temperature is easy to read accurately at the jet black pointer. It moves the red Max and Min indicators along as the temperature rises and falls. They always show the hottest and coldest experienced. To reset them just rotate the stem below Beautiful red, white and blue case 2½" diameter. With mounting bracket. Thermometer #7413 sent postpaid \$7.50 each, 3 for \$18.50. NY residents add sales tax. For F only scale specify #7410.

GIANT DIAL THERMOMETER

Easily readable 12" diameter dual °C (and -30 to 120°F scale. White aluminum case with red pointer. #7469 sent postpaid \$8.95. For °F only scale specify #7466.

PRECISION HYGROMETER

New 4" Dial Hygrometer shows relative humidity directly from 0 to 100% in 1%. Internal recalibrator for permanent accuracy. Beautiful silver/chrome style. #7434 sent postpaid \$15.00 each.

Money Back Guarantee

7469

BROOKLYN THERMOMETER COMPANY INC DEPT. S-62, FARMINGDALE, NY 11735

Circle No. 128 on Reader Service Card

METEORITE RINGS

A diamond polished chondritic aerolite set in 14 kt. gold only \$85.50 or sterling silver only \$28.50. Six styles from which to choose. The only rings on Earth with a stone from outer space. For a free brochure write: HOUSE OF RINGS, P.O. Box 6127, Kansas City, MO 64110 or call (816) 363-2002.

NET MAKING

Now you can make nets for any purpose. Master Teacher Holdgate shows you how in his fascinating new book which revives the disappearing craft of net making.

FOR FUN & PROFIT!

Materials, equipment and supplies cost pennies to buy; make highly prized gifts which can be sold for prices ranging upwards of \$50.

Over 100 Illustrations give step by step instructions on material you require, how to set up your work areas, how to tie knots, how to make shopping and shoulder bags, fishing, tennis and basketball nets, scarves, hammocks, crab pots and nets to decorate your home. NET MAKING prepares you to design original creations. Rush only \$5.95. plus \$50¢ handling 10-Day Money-Back Guarantee

EMERSON BOOKS, Inc., Dept. 133C

EMERSON BOOKS, Inc., Dept. 133C Buchanan, N.Y. 10511

ENERGY POTPOURRI IDEAS FOR TODAY AND TOMORROW

by James, Math. Prof., Inventor -The WORLD can have ALL the inexpensive

- electrical energy needed for years to come. Oil not used. Detail-Drawings.
 -Fresh water for deserts and islands.
- -Flywheel cars use 1/3 the gas.
- —Ideas for saving energy.
- Two ways of building an ocean city.

 Commercial T.V. can teach reading.

 14 pages devoted to social concerns.

BRILLIANT-NEW-CALCULATIONS-DETAIL 50+ original drawings. 200+ pp. 8 x 11 \$8.80 (+6% Calif.) postpaid, paperback. SONO PUBLISHERS, 554 N. Arden Blvd. Dept. S, Los Angeles, Ca. 90004

Circle No. 127 on Reader Service Card

GIANT BINOCULARS x80 binoculars . . 159.95 ppd with case ESSENTIAL OPTICS Box 718-S.N. Big Bear City, Calif.

ESSENTIAL OPTICS, Box 718-S.N., Big Bear City, CA 92314

UNIQUE EDUCATIONAL, CHALLENGING. **ENJOYABLE**



by Edwin Schlossberg and John Brockman

Real games for one or more players and even the simplest calculators.

To order, send name, address, check or money order for \$6.95 hardcover; \$3.95 paperbound payable to Science News. Add 75¢ for postage and handling.

Science News, Dept. CB-3 1719 N Street, N.W. Washington, D.C. 20036

Payment enclosed for ☐ Hardcover \$6.95 + 75¢ handling/postage ☐ Softcover \$3.95 + 75¢ handling/postage

Address

City, St. Zip



FREE TROPICAL FISH CATALOG Over 500 low-cost hobby items. Fine jewelry,

fish, plants, filters, pumps, books, gifts, etc.

Ask for our picture-filled, free catalog.
Send 25c for postage/handling.

We will mail it to you instantly.

Also, want colorful fishbook, over 400 pages? If so, send 55.95 Aqua Discount, Box 1-E , Ortonville, Mich. 48462

Circle No. 121 on Reader Service Card



How to Argue and Win!

Here is a clear simply written basic guide to logical thinking, showing how to spot the fallacies, the prejudices and emotionalism, the inappropriate analogies, etc., in the other fellow's argument and how to watch for and avoid the irrational in your own judgments. The author makes plain not only how but also why people resist facing the truth.

A tool for clear thinking as well as convincing others.

ORDER NOW:

St. Aubyn

THE ART OF ARGUMENT, By Giles St. Aubyn

\$5.95 plus 50¢ handling 10-Day Money-Back Guar.

EMERSON BOOKS, Inc., Dept. 135C

Buchanan, N.Y. 10511

3½ billion years of biology, chemistry and behavior...

The history of life on earth is long and rich. And anyone who wants to understand the nature of life today must also learn something about living things of the past.

That's why we invite you to subscribe now to FOSSILS Magazine—the first and only magazine in the world for everbody who wants (and needs) to know more about the 3½-billion-year history of life on earth.

Subscribe now and receive a beautiful and educational wall chart with our compliments...

Until recently, the only publications in the world about the history of life were scholarly publications. But now there's a magazine that's written—and illustrated—to be read by everybody who's interested in biology, paleontology, evolution, animal behavior, geology and related subjects. A publication that can be read by both scientists and general readers for information and enjoyment.

FOSSILS Magazine tells about the beginnings of life, the evolution of living things, the changing environments of earth. Every issue brings you articles about the latest scientific interpretations of the fossil record, written by leading paleontologists, biologists, geologists, chemists and other scientists.

FOSSILS shows what life was like millions of years ago. No magazine has ever contained so many excellent pictorial restorations of past life forms. Every issue takes you on a fascinating and informative journey back through time, to see in vivid detail the creatures and environments of past ages.

FOSSILS is scientific, yet highly readable. Every issue presents important information with scientific accuracy. And yet, because professional scientists work closely with professional writers to prepare articles, FOSSILS is a pleasure to read.

Send today with check or money order to: FOSSILS MAGAZINE P.O. Box 3518, San Diego, California 92103
☐ 1 Year \$12 ☐ 2 Years \$21 (You Save \$3) ☐ 3 Years \$29 (You Save \$7)
l enclose \$* We do not bill subscribers because this would add several dollars to the cost of a subscription. Our subscribers tell us they prefer the lowest possible price instead.
Name
Address
City
StateZip
FOSSILS is published quarterly (in April, July, October and January) SNO1



This unique chart of Geological and Life History is yours FREE

ACTUAL SIZE: 4 FEET LONG

FOSSISLS is one of the world's most beautiful publications. No biology or earth science magazine has ever been this elegant and visually expressive. There are more than 100 drawings, paintings, photographs and maps in every issue—and more than 60% of these illustrations are printed in brilliant color.

FOSSILS is an outstanding reference source and teaching aid. Every issue makes information available to students and other readers that they cannot easily obtain elsewhere. Every article contains an extensive glossary and suggestions for further reading...and a complete index is published annually.

FOSSILS helps you find and collect fossils, too. Every issue brings you articles by some of the world's most successful professional fossil collectors on how you can find fossils in various parts of the United States and Canada..including detailed maps and specific directions. All of these sites have been expertly explored and studied by scientists, so you are sure to find many excellent fossils. And since FOSSILS gives you scientific information about the fossils you will be finding, you will be able to discern their significance as records of past life.

FOSSILS guarantees your satisfaction. If you are not completely pleased with your first issue, you may return it and receive a full refund of your money.

SPECIAL BONUS FOR SUBSCRIBING NOW—A 4-FOOT FULL-COLOR REFERENCE CHART SHOWING THE GEOLOGICAL TIME SCALE AND THE HISTORY OF LIFE ON EARTH. This is the finest chart of its kind, created for FOSSILS and available nowhere else. Later this year, this chart will sell for \$6, but it's yours now with our compliments when you subscribe to FOSSILS today.

Send today with check or money order to: FOSSILS MAGAZINE P.O. Box 3518, San Diego, California 92103
☐ 1 Year \$12 ☐ 2 Years \$21 (You Save \$3) ☐ 3 Years \$29 (You Save \$7)
I enclose \$* We do not bill subscribers because this would add several dollars to the cost of a subscription. Our subscribers tell us they prefer the lowest possible price instead.
Name
Address
Ciry
StateZip
FOSSILS is published quarterly (in April, July, October and January) SN02