

FREE! BLUE RIBBON IDEAS FOR SCIENCE FAIRS.

Not every student can win a prize, but with this free kit from Kodak, more Science Fair exhibits can generate winning interest.

Our free kit (containing 9 different booklets) is crammed with ideas. It explains how to make photographs of biological specimens and mineral samples. How to take pictures through a microscope to get highly magnified details. How to bring presentations to life with photography.

Photography enables viewers to grasp details of color, texture, number, position and time sequence otherwise impossible, and adds credibility to reports.

Learn lots of ways students can use cameras to impress audiences (and judges), free. Just mail the coupon. (If someone beat you to it, send your request for C-211 to Eastman Kodak Company, Department 841, Rochester, N.Y. 14650.)



Nautilus shell chambers



Nam liber tenor
cum canque nihil
improdit demigil
quod maxim est.
Duis autem vel
eum est volupate
an vero eos et
accusam et.
Nam liber ten
per cum et et
tamen in busdarni
et imp. Improb
erat et.

POLLINATION EXPLAINED

* Nam liber tenor cum que
nihil improdit.
* Duis autem vel cum est
velit esse molestiae
* Et tamen in busdarni
nomer et imper.



Eastman Kodak Company
Department 841 • Rochester, N.Y. 14650

SN

Please send me a free copy of Kit C-211, Hints for Science Fair Contestants.

Name _____

Address _____

City _____ State _____ Zip _____

Are you
reading someone
else's copy of
Science News?
Are you at the
end of a
routing list?
Why not get
your own—
each week?

Please enter my subscription to
SCIENCE NEWS for 1 year (52 weekly
issues).

Science News Subscription Dept.
231 West Center St., Marion, Ohio 43302

☐ Bill me ☐ \$12.50 enclosed.

Name _____

Address _____

City _____ State _____ Zip _____

Service to start in four to six weeks

S-109

CHEMICALS AND APPARATUS

Small Quantities—Large Variety
Catalogue—50¢

Cardinal Chemical Co., Inc.
404 S Willson Dr.
Altoona, Wisc. 54720

AUTHORS WANTED BY NEW YORK PUBLISHER

Leading book publisher seeks manuscripts of all
types: fiction, non-fiction, poetry, scholarly and
juvenile works, etc. New authors welcomed. For
complete information, send for free booklet T-8.
Vantage Press, 516 W. 34 St., New York 10001

MURPHY'S LAWS!

Incomparable "scientific" wit. Colorfully
lithographed on 8" x 10" heavy Parchtext
for framing. A great business or personal
gift! Only \$3 (4/\$10). Four Corners
Press, Dept. SSS Hanover, Mass.
02339.

PERSONAL EDUCATION (ABOUT GENERAL LEARNING, MOTIVATION, AND PROGRESS)

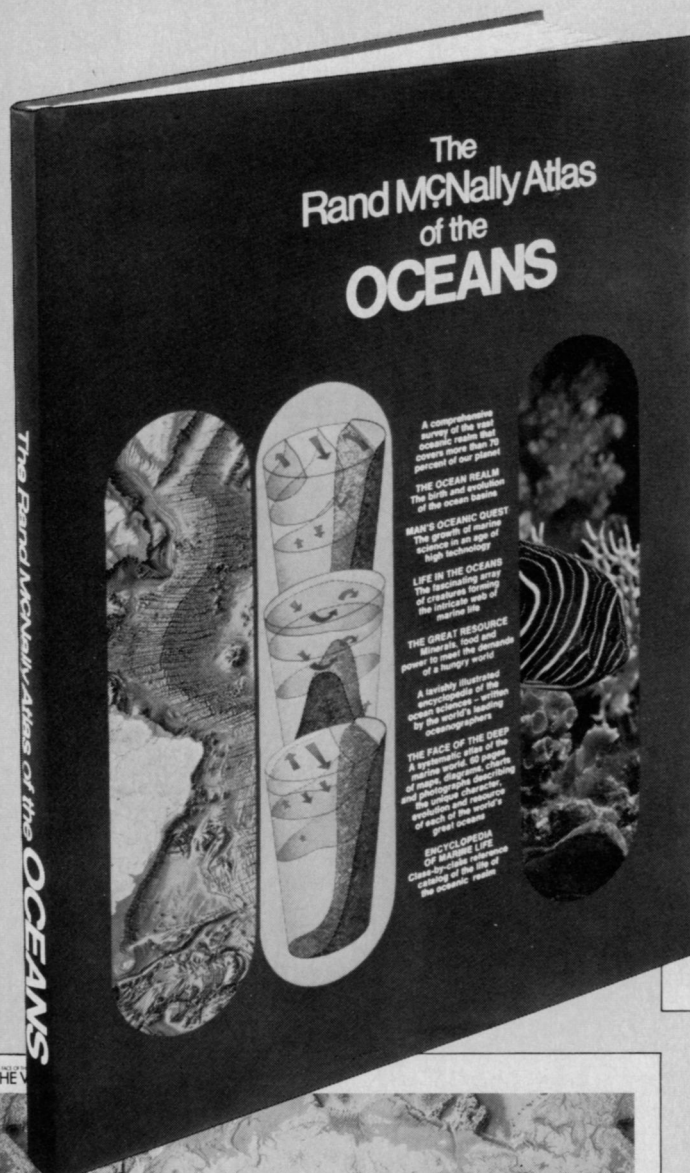
shows how to obtain and to cope with huge amounts
of modern knowledge. The practical side of theories
about psychology, including a new theory with a
biological basis, and about knowledge are stressed.
The need to know about the progression of intellect,
human nature, creativity, the nature of science, human
behavior, social science, and many modern problems
are also covered. The book's wide coverage of practi-
cal matters provides a unique counterpart to the
humanities. Over 400 pp pb \$10.00 US postpaid
Satisfaction guaranteed.

ORDER FROM A.S. Pater,
4948 Meadowbrook Rd.,
Buffalo, N.Y. 14221 or write for details.



RAND MCNALLY

ATLAS OF THE OCEANS



FOR THE FIRST TIME,
THE OCEANS & SEAS OF THE WORLD
ACCURATELY MAPPED IN FULL COLOR

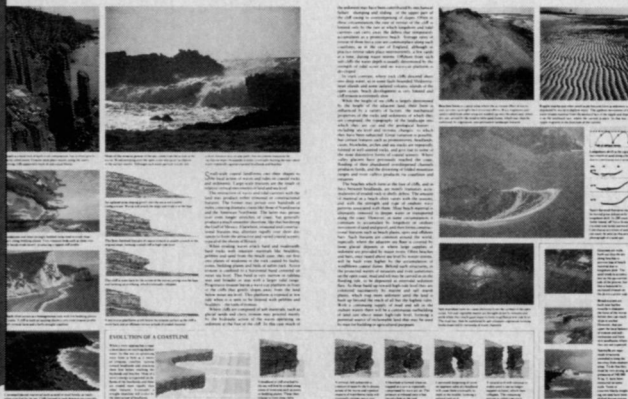
A unique undertaking, designed to fill a glaring gap in the literature of Earth Sciences and human adventure.

Never before have the vast watery expanses which cover 71 percent of our planet been presented and mapped so comprehensively and explicitly in a single volume. Never before has there been such a provocative exploration of the wonders of this world.

- 208 pages with 160 pages of full color
- Almost 1,000 full-color maps, photographs, paintings, and diagrams
- Tables of marine life, Glossary of nautical terminology, Index
- Large Atlas format, individually cartoned

This new atlas takes the specialist and layman alike on an exciting voyage of discovery into the intriguing underwater realm of tides and currents; of abyssal depths and treacherous shallows; of manta rays, giant squids and sharks; of weather determinants ... through the entire panorama of the marine environment essential to life on Earth.

THE COASTAL LANDSCAPE



528-83082-1

208 pages / 10 3/4" x 14 1/2" **\$29.95**

"The **Atlas of the Oceans** is a magnificent portrayal of the awesome beauty, complexity and fragility of the oceans of the world. In its strikingly graphic presentation of the scientific advances during the past 20 years, it captures the essence of the interrelationships linking the welfare of mankind to the sea. This is a compellingly valuable and timely volume that will fascinate readers of all ages."

William A. Nierenberg
Director, Scripps Institution
of Oceanography

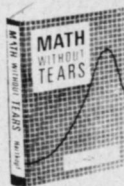


Rand McNally & Company

P.O. Box 7600 / Chicago, Illinois 60680

GIFT BOOKS

MATH WITHOUT TEARS



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

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

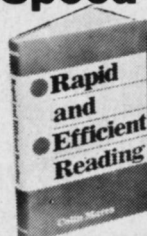
Learn math in the comfort of your own home at minimum cost. ORDER NOW:

MATH WITHOUT TEARS by Roy Hartkopf

\$7.95 plus 60¢ handling

10-day Money-Back Guarantee

Triple your Reading Speed—Now!



Here is a solid, fact-packed, clear, concise basic guide to high-speed reading; by a noted reading specialist who has helped thousands to read much faster—yet understand better, remember more! Mares tells you which reading habits to eliminate, which to cultivate and how to do both.

The knack of rapid reading can be learned by all who read at all. The benefits of this book begin the very first hour—they will last all the rest of your life!

RAPID & EFFICIENT READING by Colin Mares

\$7.95 plus 60¢ handling

10-day Money-Back Guarantee

Card Tricks for Everyone

By Ellis Stanyon

"From the tens of thousands of different mysteries devised by magicians for performances with a pack of fifty-two playing cards, a selection of the most subtle, amazing and entertaining are described in this book."

—So states John Mulholland in his introduction, beginning a rare adventure into the world of sleight of hand, feats without sleight of hand and the fun of baffling audiences using special cards and apparatus. All tricks clearly explained and illustrated. Any amateur may become an expert quickly. Tricks can be learned without a teacher. A perfect gift. PROFUSELY ILLUSTRATED.

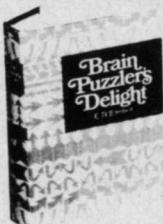
\$5.95 plus 60¢ handling

10-day Money-Back Guarantee



Brain Puzzler's Delight

By E. R. Emmet



A treasury of unique mind-stretching puzzles that can be solved by straight, logical thinking and reasoning. No specialized math. Offers the pleasures of discovering solutions through use of ingenuity, imagination, insight, and logic. Stimulates and refreshes the mind. Fascinating, entertaining puzzles, arranged in order of difficulty, with (some amazing!) solutions and full explanations at end of book. ILLUSTRATED

\$7.95 plus 60¢ handling

10-day Money-back Guarantee

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.

\$6.95 plus 60¢ handling

10-day Money-Back Guarantee



IN 5 DAYS YOU CAN BE A MAGICIAN

You can be the hero of any group, the most popular guest at any party.

World famous master magician J. Elsdon Tuff opens up his bag of tricks—and gives you amazingly simple step-by-step instructions to conjure items out of thin air, and to make them disappear; for baffling feats with cards, coins, handkerchiefs, strings and rugs. Clear, simple diagrams show you how to create suspense, arrange shows, entertain children, and make special apparatus. You will become the master to amaze any audience.

TEACH YOURSELF MAGIC by J. Elsdon Tuff

\$5.95 plus 60¢ handling

10-day Money-Back Guarantee



PAPER FOLDING AND PAPER SCULPTURE

By Kenneth Ody. This unique manual gives you all the usual and elementary techniques, plus the more advanced forms in three dimensions known as "paper sculpture."

It includes folding, Origami, paper cuts, animal and figure cutouts, curling and waving, weaving, geometric solids, paper-sculpture as reliefs, in the round, etc.

You are taught to create original designs as well as to fashion a great variety of objects: Dancing figures, animals, hats, toys, masks, holiday ornaments etc. There are suggestions for displays, gifts, decorations, stage sets, costumes, etc.

Directions are simple, clear and detailed; patterns and step-by-step illustrations by the hundred are a great help. Splendid photos show the wonderful complexity and striking beauty of objects made 369 drawings, 25 photos.

\$7.95 plus 60¢ handling

10-day Money-Back Guarantee



GEM TESTING

FOR FUN AND PROFIT



This exciting pursuit combines the challenge of detective work... the thrill of spotting sensational "buys"... the satisfaction of knowing when someone else's big flashy "diamond isn't"... and the opportunity for highly paid, spare-time earnings. GEM TESTING, bible of amateur and professional alike, is a remarkably simple, lavishly illustrated book by B. W. Anderson, director of London's world famed Precious Stone Laboratory. Anderson has examined more gems than any man in history.

Now he shows you step-by-step the high speed methods by which he unerringly identifies precious stones. Emphasis throughout the book is on rapid examination with the naked eye. This FIRST AMERICAN EDITION of GEM TESTING tells, shows and explains everything you need to know. Copiously illustrated.

GEM TESTING by B. W. Anderson

\$8.95 plus 60¢ handling.

Inside Music

By J. Raymond Tobin

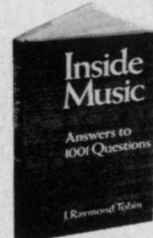
ANSWERS TO 1001 QUESTIONS

"Simply presented but full of much useful information this is a reference work to be appreciated by student or listener. The separate sections that deal with the orchestra, the families of instruments, special effects, the science of sound signs and abbreviations, musical forms and notations, time, accent, and rhythm, scales and keys, intervals, harmony, modulation and sequences, Transposition, and musical ornaments.

Pleasingly illustrated."—American Library Association Booklist

\$7.95 plus 60¢ handling

10-day Money-Back Guarantee



ORDER NOW—10-DAY MONEY-BACK GUARANTEE

___ THE ART OF ARGUMENT	\$6.95
___ CARD TRICKS FOR EVERYONE	\$5.95
___ INSIDE MUSIC	\$7.95
___ RAPID AND EFFICIENT READING	\$7.95
___ MATH WITHOUT TEARS	\$7.95
___ PAPER FOLDING AND PAPER SCULPTURE	\$7.95
___ BRAIN PUZZLER'S DELIGHT	\$7.95
___ NET MAKING	\$6.95
___ GEM TESTING	\$8.95
___ TEACH YOURSELF MAGIC	\$5.95

EMERSON BOOKS, Inc. Dept 193-D
Buchanan, N.Y. 10511.

Please send Books Checked, I enclose \$ _____

Name _____

Street _____

City _____ State _____ Zip _____

Add 60 Cents handling for each book. Save Money!! No Shipping Charge on orders of 3 or more books.

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:

THE ART OF ARGUMENT by Giles St. Aubyn

\$6.95 plus 60¢ handling

10-day Money-Back Guarantee