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SCIENCE NEWS LETTER

®

THE WEEKLY SUMMARY OF CURRENT SCIENCE



Bird Hunting Stamps

See page 329

A SCIENCE SERVICE PUBLICATION

How to extend Christmas

THE WHOLE YEAR THROUGH

FOR THE MOST UNUSUAL PERSON
ON YOUR CHRISTMAS
LIST



Wouldn't he (or she) like a gift of twelve packages, one to arrive each month in 1957?

Twelve Surprises plus another we'll add

IN EACH 1957 gift package, there will be several objects of science, and with each object, a museum-style legend card, which will tell at a glance what these THINGS of science are. Included will be the sheets of explanation, that give the interesting details of discovery, of development, of manufacture, and that tell how to perform unusual experiments with the contents of the package.

Since late in 1940, packages like these have been going forward to members of the THINGS of science group. Glance over this list, then decide whether a membership which brings monthly packages on subjects as widely varied as these, isn't just the thing for that most unusual person on your Christmas Gift list.

Carbon Black	Vegetable Dyes	Taste
Unusual Fabrics	Housing Materials	Food Packaging
Lodestone	Coffee By-Products	Urea Chemical
Rayon	Iron Ore	Fungicides
Coins	Modern Cotton	Sea Shell
Casein	Multi-Layer Wood	Color Vision
Rubber Plant	Fingerprint	Nails
Spices	Mineral Hardness	Paper Chromatography
Sweetness	Kidskin	Glass Properties
Steel	Humidity	Licorice
Coal By-Products	Polaroid	Fertilizer Chemicals
Nylon	Tea	Titanium
Vinyl Resin Fibers	Motion Picture	Pyrethrum
Insecticides	Highway Safety	Straight Line
Horology	Modern Electronics	Seed Germination

You know the one who would thank you again and again for such a gift. And if you are not yourself a member, you could hint to someone that you'd like it as a gift yourself.

The 1957 THINGS of science will be unusual; every month's package will be a surprise. A Christmas Membership to THINGS of science will bring the 12 units of 1957. We will make out and mail a Christmas card with your name as donor, announcing your gift. Each membership is \$5 a year, postpaid. You will find a handy order coupon below.

Gift from

MY NAME

STREET ADDRESS

CITY & STATE

Mail this order to THINGS of science, 1719 N St., N.W., Washington 6, D. C., for the 12 units of 1957.

I enclose \$5.00 for the following

Please bill me after Christmas

Gift to

PLEASE PRINT

STREET ADDRESS

CITY & STATE

MAKE OUT Christmas Card

TO READ from

OPTICAL BARGAINS EXCELLENT FOR CHRISTMAS GIFTS!

Photographers!

Adapt your camera to this Scope for excellent Telephoto shots and fascinating photos of moon!



... See the Stars, Moon, Planets Close Up!
ASSEMBLE A BIG 100 POWER 3" REFLECTING TELESCOPE
 ... with this Complete 87 Piece "Do-it-yourself" Kit
EXCELLENT SCIENCE CLUB PROJECT!
Get Ready to See the Artificial Satellites!

Everything you need! No machining! Easily assembled! We furnish complete, simple instructions. Kit includes: 3" f/10 aluminized and over-coated Spherical Mirror—60X Eyepiece and 100X Barlow Lens—Cross-line Finder—sturdy 40" Tripod—fork type Equatorial Mount with locks on both axes—ventilated 3" Mirror Mount—heavy wall, black Telescope Tube. All nuts and bolts supplied. Nothing extra to buy. Our 3" Spherical Mirror (30" f.l.) is guaranteed to resolve detail right up to theoretical limit. Your finished scope can also be used terrestrially. Money-back guarantee. Shipping weight, 10 lbs
FREE with Kit:—Valuable STAR CHART and 136-page Book, "DISCOVER THE STARS"!
 Stock No. 85.025-Q \$29.50 f.o.b. Barrington, N. J.



This is an actual photograph of the moon taken through our Astronomical Telescope by a 17-year-old student.

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See a thrilling spark display as you set off a miniature bolt of lightning. Absolutely safe and harmless—perfect for classroom experimentation. Ideal for Science Clubs. Sturdily made—stands 14" high. Turn the handle and two 9" plastic discs rotate in opposite directions. Metal collector brushes pick up the static electricity, store it in the Leyden jar type condenser until discharged by the jumping spark. Countless tricks and experiments. 24-page instruction booklet included.

Stock No. 70.070-Q \$10.95 Postpaid

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 Grind Your Own Astronomical Mirror
 Complete Kits Including Blank, Tool and Abrasives



All over America amateurs are grinding their own mirrors and making expensive Telescopes cheaply. You can do the same using our Kits. These contain mirror blank, tool, abrasives, diagonal mirror and eyepiece lenses. You build instruments ranging in value from \$245 to thousands of dollars.

Stock No.	Dia. Mirror	Thickness	Price
70.003-Q	4 1/4"	3/8"	\$ 7.20 postpaid
70.004-Q	6"	1"	11.40 postpaid
70.005-Q	8"	1 1/2"	18.70 postpaid
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Easy to follow—accurate—5 1/2 x 11 page size—many illustrations. Do-it-yourself—Save! and have Fun!

Stock No.	Price
How to Build Projectors.....	9014-Q 30¢
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Homebuilt Riflescopes.....	9018-Q 40¢
All About Telephoto Lenses.....	9036-Q 60¢
How to Condense and Project Light with Lenses.....	9044-Q 75¢
Reticles and Their Uses.....	9039-Q 45¢
ULTRA CLOSE-UP Photography.....	9042-Q 60¢
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Useful Telescope and Microscope combined in one amazing, precision instrument. Imported! No larger than a fountain pen. Telescope is 10 Power. Microscope magnifies 50 Times. Sharp focus at any range. Handy for sports, looking at small objects, just plain snooping.
 Send Check or M.O. Satisfaction Guaranteed

Order Stock No. 30.059-Q \$4.50

SPITZ MOONSCOPE

A precision-made 32 power reflecting telescope—by the makers of Spitz Planetarium. Clearly reveals the craters of the moon, shows Saturn, Jupiter, other wonders of the heavens. Based on same principles as world's giant telescopes. Stands 36" high on removable legs. Adjustable 3" polished and corrected mirror. Fork type Alt-Azimuth rotates on full 360° circle—swings to any location in the sky. Fascinating 18-page instruction book is included. Instrument packed in sturdy carrying case.



Stock No. 70.068-Q \$14.95 Postpaid

SPECIAL SALE 7x50 MONOCULAR

This is fine quality, American made instrument—war surplus! Used for general observation both day and night and to take fascinating telephoto shots with your camera. Brand new. \$95 value.
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It's easy—inexpensive. We furnish instruction sheet. This sun powered furnace will generate terrific heat—produces many unusual fusing effects.

Stock No. 80.040-Q—Fresnel Lens, size 11 1/4" x 16 1/2" f.1.19" \$3.50 Pstpd.

SIMPLE LENS KITS!

Fun for adults! Fun for children! Kits include plainly written, illustrated booklet showing how you can build lots of optical items.

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 Stock No. 5-Q—45 lenses..... \$ 5.00 Postpaid
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GET FREE CATALOG #Q—World's largest variety of Optical Items. Bargains galore . . . War Surplus—Imported—Domestic! Microscopes, Telescopes, Hand Spectroscopes, Prisms, Lenses, Reticles, Mirrors and dozens of other hard-to-get Optical Items. Ask for FREE CATALOG #Q.

MEDICINE

Reports Citrus Chemicals Help in Common Colds

➤ **CHEMICALS** from citrus fruit peels, called flavonoids, combined with vitamin C, also found in citrus fruits, brought "definite, objective relief" from both mild and severe colds in various stages, Dr. W. L. Macon Jr. of St. Louis reports in the *Journal of Industrial Medicine and Surgery* (Nov.).

His favorable findings came in a controlled study conducted among employees at McDonnell Aircraft Corporation, St. Louis.

Science News Letter, November 24, 1956

Do You Know?

Ill health is the most frequent motive for *suicide*.

Untanned *sharkskin*, called shagreen, has millions of tiny projections known as "denticles," and for centuries shagreen was used by ships' carpenters instead of sandpaper.

Railroads have been constructed on floating *ice*.

A *trumpeter swan* breeding pair usually need about a square mile of land and water for seclusion during the nesting season.

Huge radio-equipped balloons released from Japan by U. S. Navy personnel are revealing important facts about the *jet stream*, a swift-moving river of air high in the earth's atmosphere.

RAPID CALCULATIONS

by A. H. Russell

CAN YOU

- Name the day of the week on which May 1st, 1485, fell
- Give the cube root of 42508549
- Tell how long it takes for money to double itself at 5% compounded annually

IN 5 SECONDS?

- or, Multiply 56837 by 2467
- Divide 385623874169 by 89

in 20 Seconds?

YOU CAN—

perform these and many other feats **MENTALLY** after studying this book!

Now you can learn how easily and quickly work with figures can be speeded up through use of simple short cuts and elimination of needless number juggling. Saves time, drudgery.

Covering a wide range, from simple arithmetic on up, the instructions given can be applied to an endless variety of activities. The book will be found especially valuable to executives and administrators, engineers and scientists generally, doctors, druggists, stock market traders, bookkeepers and accountants, and to workers in numerous other occupations involving number calculations. Not least, the average person will find he is enabled to check his everyday accounts more quickly, more accurately, and with infinitely less bother.

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