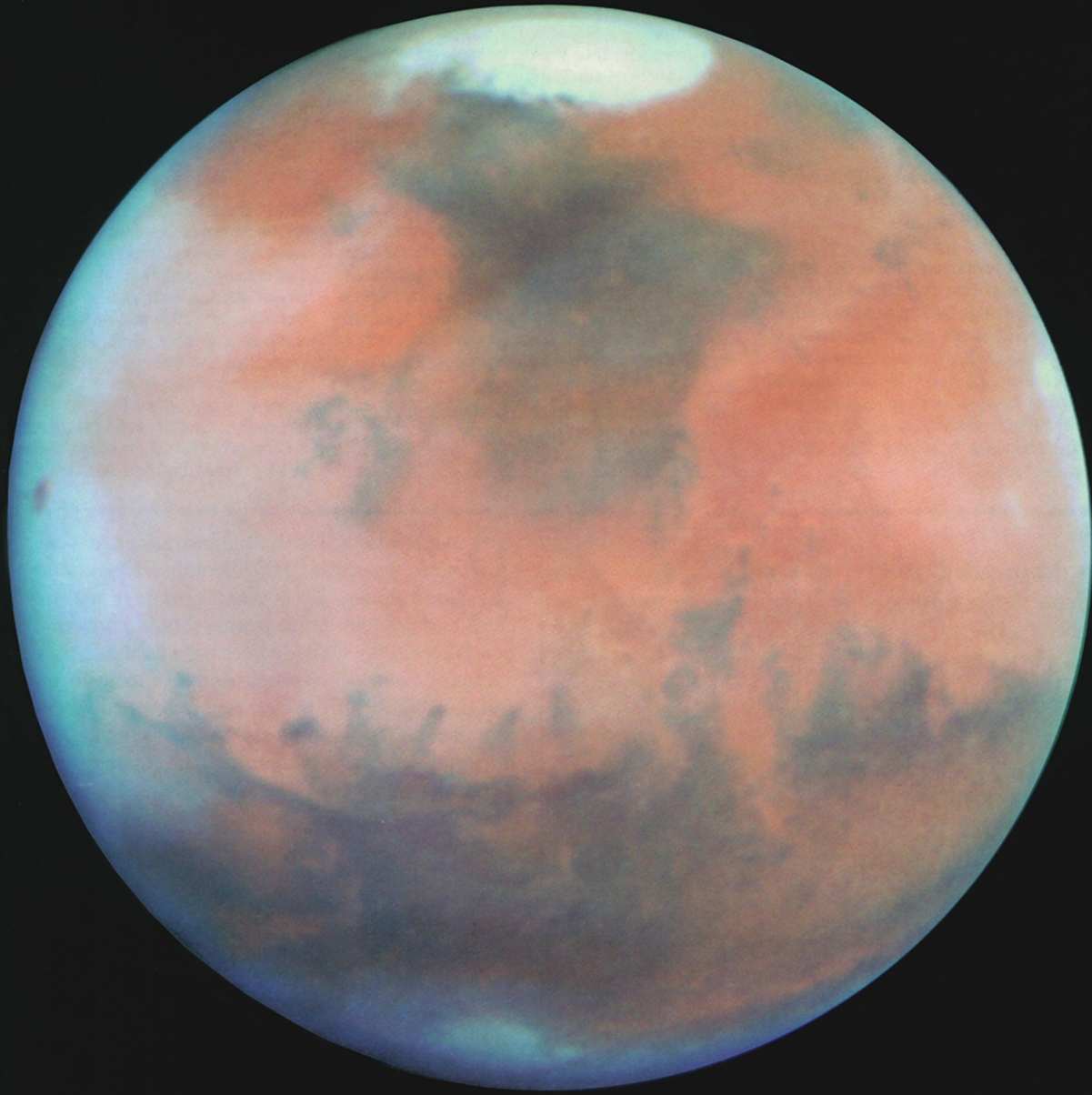


The Weekly Newsmagazine of Science

SCIENCE NEWS

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Pages 193-208



Hubble Eyes the Solar System

Edmund Scientific makes science fun!

DISCOVER SCIENCE!!

SCIENCE FUN FOR EVERYONE!

Deluxe Gyroscope Performs Gravity Defying Feats, Rotates 3 To 5 Minutes.

Demonstrates 'gyroscopic inertia' or rigidity in space as first recorded by Sir Isaac Newton in the 17th century. An object rotating about a fixed axis holds its position with respect to inertial space, no matter how the spinning object's support is moved about. Gyro-controlled guidance and navigation systems are used in ships, planes, missiles and space craft and used in mapping/survey work, oil drilling and motion-picture production. With laser gyros and advanced control mechanisms, gyroscope principles promise to be an important part of tomorrow's technology. Space-age design gyroscope measures 3 1/2".



Add Spectacular Color To Your Home With A Rainbow Light Display.

Our equilateral prism mounted in an attractive high tech positioning base catches the sunlight from your windowsill and projects the ever-changing rainbow patterns over your walls, ceiling and floor. It's almost like being inside a multi-faceted diamond. Glass equilateral prism is 2" (50mm) long with 1" (25mm) faces. Black plastic mount is 3" x 1 1/2" x 1 1/2".



Perform Experiments With Equilateral Prisms Discovered By Sir Isaac Newton.

Prism discovery optics have three equal 60° angles. Ideal for classroom demonstrations. Turn sunshine into rainbows, bend light, even make a periscope. You can perform Newton's basic dispersion of white light into the spectrum experiments. All made of optical glass. Face is 25mm.

75mm, NE31,797 \$5.75
 25mm, NE39,124 \$4.45
 50mm, NE31,801 \$5.35
 100mm, NE31,798 \$5.75
 150mm, NE31,799 \$9.25

Go Fishing With This Mighty Magnet.

Lift up to 200 lbs. Fun to use around docks and bridges. A 'must' for a boat, it helps retrieve metal objects that fall overboard. You'll be amazed at what you pull up. Wt. 2 lbs., measures 4x3x3 1/2". Made with a Poly-Vinyl Chloride coating to resist corrosion and chipping.

NE71,133 \$34.95

250 Assorted Stars That Glow In The Dark Turn Any Wall Or Ceiling Into The Night Sky.

Assortment of 250 luminous stars that glow in the dark on ceiling or wall. You and your friends will enjoy viewing these 'stars'. They'll light up a room with glowing stars and you'll have fun with astronomy. Easy to apply decals glow after exposure to light. Comes with star chart and instructions to recreate the big dipper, Milky Way & the heavens.

NE92,1 Pkg. of 250 \$4.75

Can You Tell Which Ball Is A Happy Bouncer, And Which Ball Is Not?

Two seemingly identical black spheres with marked differences in their physical properties. Balls are 3/4" in diameter and have the same density, mass, color and appearance; yet when dropped to the floor one jumps wildly, the other is motionless. Marvelous thought provoker for discrepant event science. Fact sheet on physical and chemical properties plus experiments for classroom use included.

NE39,129 \$3.95/Pair; 10 Pairs or more \$30.50

Radiometer...A Space Age Sphere.

It's fascinating to watch the delicate vanes within this 5" precision-made sphere spin faster and faster illustrating the basic principles of solar heating. When light strikes the vanes it transfers heat and the vanes begin to move. Works from direct sunlight or artificial light. An attractive conversation piece.

NE60,082 \$6.95

The Vortex™, More Than A Money Bank!

Performs spinning tricks and high maneuvers. Drop a coin onto the launching pad, spin the Vortex unit in a circular motion. This creates an immense amount of speed, causing the coin to spin around and around until it finally drops to the bottom swirling area. "The longest continuous rolling so far is 33 hours, 18 minutes." Challenge your skills, spin the coin back up the tunnel or spin it upside down, plus more. Made of tough polypropylene. Instructions included.

NE37,832 \$18.95

Fun And Intriguing! You'll Play For Hours With These Colorful Magnetic Magic Marbles.

Build a mountain or odd geometric patterns with these fascinating, high impact plastic marbles. Each marble has both a negative and positive pole. A challenge to your imagination. Fun for youngsters, adults too!

NE34,968 (Package of 20) @ \$3.95 Ea.
 (5 Packages or more) @ \$3.70 Ea.
 (10 Packages or more) @ \$3.20 Ea.

Moon-Blob, It Crawls Out Of Containers And Looks Alive As It Creeps Uphill.

Moon-Blob has unbelievable properties and is fun to play with...it acts alive and looks like a living protoplasm as it defies gravity by crawling up and out of its container. It's dehydrated plastic — just add water to activate it. Completely harmless. Dual pack 2 Packages, NE38,440 \$11.95

A Bird Watchers Delight... Wild Bird Feeder.

Now you can have hours of fun watching wild birds feed in your backyard. It's easy, just recycle a 2-liter plastic soda bottle into a bird feeder by making a hole for the wire hanger on both sides of the bottle. Fill bottle with bird seed and twist on the cast zinc adapter. It can be hung or mounted on a pole.

NE52,431 \$13.95

Flash Rocks.

Strike them together and see amazing flashes inside the rocks! The source of light is a miniature "lightning flash" that occurs in the quartz material within the rocks. It's nature's Piezo effect.

NE39,142 \$5.25
 Package of 3

Hand Propelled Flying Machine.

Just rub the stick briskly between both hands and the propeller will soar into the air. Package of 3

Our Six Favorite Science Toys That Teach.

Classic science demonstration toys have amazed and intrigued young minds for many generations. You'll have fun and learn scientific demonstrations with them.

- Amazing Flying Bird • Fickle Foam
- Whirling Gyroscope SPECIAL \$19.95
- Sun Powered Radiometer PRICE
- Rainbow Maker • Space Pet NE52,380

Newton's Third Law Of Motion Demonstrated With The 5-Ball Swinging Wonder.

It's hard to put down once you start playing with it. Swing one of the nickel plated balls and watch the one on the opposite side swing back. Consists of 5 balls suspended by monofilament to a wood frame.

NE33,739 \$22.95

Why Does This Amazing Space Pet or Celt Always Spin In A Counter Clockwise Direction?

Originally called "Celts" because their curious properties were first discovered by archeologists studying prehistoric axes and adzes called Celts. These rocks had a preferred direction of rotation. Spin the space pet the other way and it will stop, rock up and down on the long axis, and then reverse its spin. Hint: the round edge is an ellipsoid, with its axis aligned at an angle of about 5° to 10° from the main axis of the stone. Angular momentum is conserved, but it doesn't look it. Made of injection molded acrylic. Size: 3/4" x 1 1/4" x 1/2". Package of 3 NE38,912 \$5.95

HANDS-ON SCIENCE

Illuminating 30X Magnifier-Microscope For Examining Stamps, Coins, etc.

Our new design improves this popular model. Carry it with you everywhere, measures only 5 1/2" x 1 1/4" x 1/4". Ideal for critical inspections. Has a built-in light source and optics to let you examine objects 30 times actual size. Features a center focus wheel for precise one-hand operation. Ideal for industrial inspections and hobby applications. Uses 2 "AA" batteries (not included).

NE35,001 \$9.75

COMPACT LASER POINTER

Our lowest Price Ever!

NEW! PRICE BREAKTHROUGH \$49.95

Lightweight, Measures Less Than 5 1/2"

Ideal for lecturers, presentations, educators, instructors, annual meetings and slide shows.

It projects a brilliant red laser dot to focus attention to slide presentations, charts, business and sales meetings at distances up to 150 feet. This compact pen style class IIIa laser pointer is crafted of the finest materials and built to the highest industrial standards. 8 hours continuous battery life, uses 2 "AAA" batteries (included), weighs less than 2 oz. Rated output: 3mW at 675nm. Caution: Laser light, avoid direct eye exposure.

NE52,442 PRICE BREAKTHROUGH! ONLY \$49.95

Build Your Own 2000° Solar Furnace With This Fresnel Lens And Harness The Sun's Rays!

Use this precision lens as a solar cooker for heating food, as a kiln for pottery — and even to melt metal or for other solar experiments. Lens has an 8 1/2" L, 50 lines per inch, measures 10 1/2" x 10 1/2", 1/4" thick. Unmounted lens comes with instructions on how to build the 360° stand and frame shown. Caution: Adult supervision required.

NE52,833 \$19.95

Every Detail Of Your Eye Enlarged.

Check contact lenses and inspect your own eye with our unique close-up eye inspection mirror. Our precision radius mirror with front surface coating allows you to inspect your own eye by simply holding the mirror approximately 2 inches in front of your eye. Ideal for contact lens wearers or to inspect for irritant alien particles. Mirror is 2 inches in diameter with front surface aluminized coating.

NE39,152 \$9.95

Is Your Vision 20/20?

Check your vision with our self-screening vision tester. It's easy to check your distance and reading vision power. Unit consists of a sliding target, a 10 1/2" long scale and a built-in viewing lens. Now you can check and monitor your eyesight in conjunction with your eyecare professional.

NE38,624 \$14.50

Bring The World 8 Times Closer With This Pocket-Size, Economical 8x20 Monocular.

Ideal for bird watchers, hunters, racing and sports fans. You'll never miss out on that rare bird sighting... the big play... or the photo finish again. This compact 3 1/2" x 1 1/4" diameter straight-thru roof prism design monocular features all optical grade glass optics and a water resistant rubber coated body. Includes soft case and neck strap.

NE52,121 \$27.95

Metric Triple Scale Ohaus Scale With Single Pan Balance.

The classic weighing instrument provides accurate weights year after year.

NE71,695 \$95.00

— liquids, solids or live animals. Three tiered, notched beams (100-550, 10-100, 0-10 grams) have center reading, sliding poises. 610 gram capacity. Stainless 8" platform 18x6x6"

NE71,695 \$95.00

Accessory Weight Set, expands scale to 2,610 capacity including 1-500 and 2-1000 gram wts. NE41,786 \$26.00

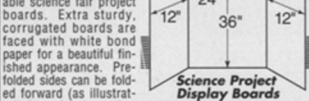
Have You Ever Seen The Inside Of Your Eye?

Eye scope is an optical device for looking at the inside of your eye. It's a specially designed diffuser incorporating a parabolic mirror and lens light. Safe and easy to use. A booklet included, describes the various features inside the normal eye, how the iris works, kinds of floaters and fixed objects, how to inspect contacts.

NE33,538 \$29.95

Free Standing Science Fair Project Boards.

Enhance your science fair projects with our expandable science fair project boards. Extra sturdy, corrugated boards are faced with white bond paper for a beautiful finished appearance. Pre-folded sides can be folded forward (as illustrated) for a free standing presentation. Boards are 36" x 24" folded; 36" x 48" expanded.



NEW! Package of 3 Boards NE52,383 \$12.95
 Educational Pkg. of 10 Boards NE52,384 \$33.95

Build A Working V-8 Engine That's Visible.

What better way to learn how an internal combustion engine works than to be able to see all of the parts move! As you turn the crank at your own speed, each of the parts move — just like the real thing. You can actually watch the crank shaft rotate; valves open and close and the rods and pistons move up and down. This 1/4 scale realistic model is powered by a hand crank — no batteries required. V-8 engine rests on a black stand, which may be painted. Model skill level 3. Glue not included.

NE52,854 \$45.95

Motors By The Bag For The Hobbyist, Modelmakers

Our inexpensive motors can make wheels go 'round, propellers turn. Unlimited applications. Have fun by adding motion to your science fair projects, demonstrations and experiments with this special buy of 20, 1" motors with 1/2" long shafts.

20, 1" Motors NE1304 \$14.95

Exciting Books For Science Fair Projects

"700 Science Experiments For Everyone"

NEW, up-to-date edition of the best known science experiment book in the world.

Compiled by science instructors under the auspices of UNESCO in Paris. 251 pages, featuring optical projection, electricity, chemistry, astronomy, magnetism, geology, physiology and more. Describes experiments with easy-to-follow instructions and diagrams.

NE9301 \$13.95

Build Your Own Clock Of Paper, It Really Keeps Accurate Time.

Cut up this heavy stock 40 page book, supply a little glue, 3 paper clips, nail, string and perseverance and you have a working clock which keeps accurate time and has a real "tick-tock" pendulum movement. You rewind and regulate it.

NE9687 \$13.00

Miniature Water Pump For Photo Darkrooms, Science Fairs, Water Displays.

This tiny pump can pump a pint per minute with a 12" high flow. Ideal for temperature control and circulation of darkroom chemicals, table fountains, model waterfalls, water filtration and more. Can be used in either direction and is self-priming. Operates on 2 flashlight batteries (not incl.), runs up to 48 hours before battery change is required. 4 tube included.

NE50,345 \$7.75

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