

The Weekly Newsmagazine of Science

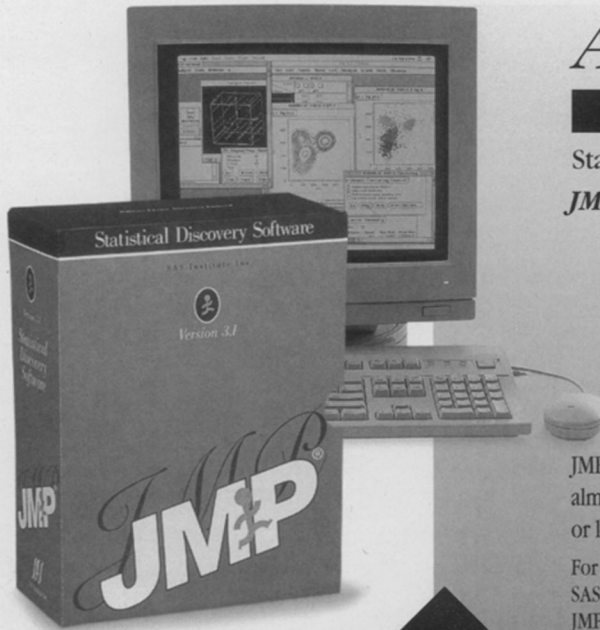
# SCIENCE NEWS

June 3, 1995  
Vol. 147, No. 22  
Pages 337-352



**Jumping to  
Conclusions?**





## Analyzing Data?

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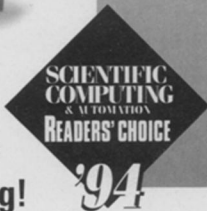
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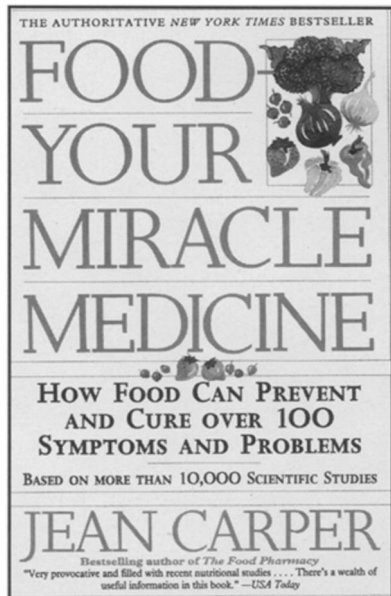
#### Dramatic new research shows that:

- A carrot a day could slash your risk of stroke by nearly 70 percent.
- Ginger can stop migraine headaches and nausea.
- A food allergy may be the cause of your fatigue.

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In this book you will find out exactly what you should eat — and not eat — to prevent or relieve dozens of symptoms and problems. The lively writing makes it an irresistible read as well as a much-needed reference for using food as a partial alternative to costly pharmaceutical drugs and medical treatments.

*Food — Your Miracle Medicine* is based on more than ten thousand cutting-edge studies by researchers from prestigious scientific institutions around the world, including Harvard, Johns Hopkins, MIT, and the National Cancer Institute. — from HarperCollins



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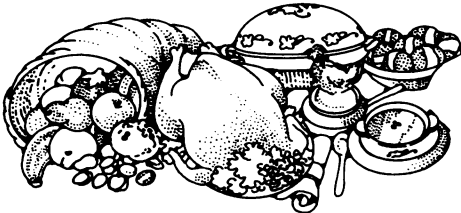
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Precision made, pocket-size, easy-to-use stadiometric measuring device is ideal for navigators, hikers, hunters, golfers, surveyors and engineers. Measures from 6 feet to as far as the eye can see, accurate within 2". Provides a direct reading on a slide-type calculator in yards, statute or nautical miles or can be converted to metric. Water and corrosion proof. Non-magnetic, 4" diameter, 1 1/4" thick, weighs 5 oz. Comes complete with neck strap and instructions. **NH34,828 \$89.95**

### 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" L x 1 1/4" Diameter straight-thru roof prism design monocular features all optical grade glass optics and a water resistant rubber coated body. Incl. soft case and neck strap. **NH52,121 \$27.95**

### 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. **NH33,538 \$29.95**

### 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 1/4" x 1 1/4". **NH38,400 \$8.25**

### 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. **NH9521 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. **NH39,129 \$3.95/Pair; 10 Pairs or more \$3.50**

### 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. **NH60,082 \$6.95**

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

Our new design improves this popular model. Carry it with you everywhere, measures only 5 1/4" 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). **NH35,001 \$9.75**

### 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 4 3/4" x 3 1/4". Made with a Poly-Vinyl Chloride coating to resist corrosion and chipping. **NH71,135 \$34.95**

### 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. **NH52,854 \$45.95**

### 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. **NH52,431 \$13.95**

### Save \$7.29 on our famous favorites!

**Amazing Flying Bird • Fickle Foam**  
**Whirling Gyroscop • SPECIAL \$19.95**  
**Sun Powered Radiometer PRICE**  
**Rainbow Maker • Space Pet** **NH52,380**

### 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.

**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! 20 marbles per package.**

**NH34,968 (Package of 20) @ \$3.95 Ea.**  
**15 Packages or more @ \$3.70 Ea.**  
**10 Packages or more @ \$3.20 Ea.**

## HANDS-ON SCIENCE

### Make 400,000 Volts Of Static Electricity With Van De Graaff Generator.

This rugged unit will develop potentials as high as 400,000 volts making it possible to perform all basic electrostatic experiments on a large and spectacular scale. The lower cabinet houses the adjustable speed driving motor and lower pulley assembly. A sturdy lucite column supports the 10" highly polished, spun aluminum discharge electrode. Develop sparks 6" to 10" long, and as long as 12" to 15" under favorable conditions with only 10 micro amps current, making this safe. Extra transport belt is included. **A) Generator NH52,587 \$395.00**

When placed beside the Van De Graaff Generator, the sphere is at approximately the same height as the generator. Lead with a banana plug on one end and an alligator clip at the other. The unit may be used as an isolated charged sphere or it may be connected to the base of the generator, thus intensifying the spark by the addition of capacitance. **B) Discharge Electrode NH52,588 \$149.00**

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 LASER LIGHT  
 NEVER DIRECT EYE EXPOSURE  
 SEE USER MANUAL FOR FULL SAFETY INFORMATION

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#### Lightweight, Measures Less Than 5.5"

**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.** **NH52,442 PRICE BREAKTHROUGH! ONLY \$49.95**

### Create Experiments In Electricity.

Build an affordable high-voltage generator and learn to use it safely. Soft cover, 200 pages. "Homemade Lightning". **NH7277 \$14.95**

### World's Smallest 1/3" CCD Board & W Camera Offers Challenge For Electronic Hobbyists.

**Shown Actual Size!**

### 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.

25mm, NH39,124 \$4.45	75mm, NH31,797 \$5.75
50mm, NH31,801 \$5.35	100mm, NH31,798 \$6.85
	150mm, NH31,799 \$9.25

### Build Your Own 8X Refractor Telescope Kit.

Powerful enough to show craters on the moon, Jupiter's moons and many stars not visible to the naked eye. Complete kit includes objective lens, eye lens, glare stops, kraitboard tubes, star chart and instructions. Takes less than an hour to build an 18" long telescope. **NH71,473 \$21.95**

### 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" I.D., 50 lines per inch, measures 10 1/2" x 10 1/2" x 1/4" thick. Unmounted lens comes with instructions on how to build the 360° stand and frame shown. **Caution: Adult supervision required.** **NH52,833 \$19.95**

### 10 Foot Solar Dirigibles Fly In The Sky When Exposed To Sunlight.

These 10x2 ft. mylar solar shuttle dirigibles will fly over houses and trees when exposed to the sun. Weighs only 2 ounces. **NH35,864 \$4.95**

### This Clever Gadget... Will Tell You How High You Are.

Whether you're driving cross country or hiking in the mountains, this Altimeter will tell you how high you are. Shows elevation from sea level to 15,000 feet. Can be mounted to dashboard with self sticking tape (incl.) or can be carried with you in your pocket. Built-in weather barometer to warn you of impending storms (included). **NH34,544 \$39.95**

### 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 s! package effect.

**Pack of 3 bags (6 rocks)**  
**NH37,474 \$8.95**

### Hand Propelled Flying Machine.

**NH39,142 \$5.25**  
**Package of 3**

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

### 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, NH38,440 \$10.95**

## SUMMER OUTDOOR FUN!

### Bat House Kit. Adopt A Bat, And Forget The Myths!

Bats are really harmless and shy creatures. Bats are actually nature's best insect population controllers, eating over 500 insects an hour. As with birds, bats seek refuge in enclosed shelters and sleep during the day. Bats mate in the fall and their infants are born in late June to July. Bats are essential to the ecology. Bat House Kit is easy to assemble, made of wood; nails and instructions included. **NH52,486 \$22.95**

### NEW! Russian Night Vision Scope... Ideal For Law Enforcement, Astronomy, Navigation And Camping.

**Affordable Light Amplification**  
**Infrared Light Source Included**  
**Auto-gain With Exposure Protection!**

After testing most of the Russian night vision scopes currently available, Edmund Scientific is pleased to offer the best scope overall in quality and price. This scope features affordable night vision with huge image gain and resolution. The unit only requires 0.002 lux natural or artificial illumination to function. An adjustable external illuminator is included to provide near-infrared light to scenes below the minimum level. Spectral response is wide, ranging from visible to near-infrared. Auto-gain circuitry prevents damage against accidental bright light exposure. Manual diaphragm allows alternative control over image brightness received by the scope. Eyepiece diopter adjustable; battery included, weight 2.8 lbs. **NH52,839 \$435.00**

### Projects Miniature Details On Your TV Monitor.

Our miniature breadboard-type CCD B&W camera (1.26" x 1.26" x 0.75" thick) for machine vision, instrumentation and OEM applications can open doors for your creative imagination. Unit features a 3.7mm pinhole lens built into the breadboard assembly. Wired for 9 volt DC input and video output, with an automatic electronic shutter. Field of view is 45° (V) x 60° (H) with 32mm x 32mm dimensions. You can observe miniature details on a TV monitor (not included), from a range of only inches away to up to 15 feet with a 0.3 Lux minimum illumination. Many applications - limited only by your imagination - from non-destructive security, viewing hard-to-see areas, robotics. **NH52,569 \$230.00**

### An Exciting Book For Science Experiments.

New, up-to-date edition of the best known science experiment book in the world, "700 Science Experiments For Everyone" 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. **NH9301 \$13.95**

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