



AMERICA'S GREATEST VALUES IN SCIENCE LABS AND COURSES!

American Basic Science Club's AMAZING KIT-A-MONTH PROGRAM

You Get ALL the following in ten monthly kits!

NO EXPERIENCE NECESSARY
Everyone can enjoy space age science with this easy-to-use equipment and exciting, learn-by-doing courses. It's easy—it's fun!

DEVELOPED BY TOP SCIENTISTS
The ABS Club program is a real science course developed with famous Southwest Research Institute—a non-profit public service organization, nationally recognized as the center of scientific research in the Southwest.

GOOD QUALITY EQUIPMENT
These kits are not toys. They consist of standard components by Centralab, General Electric, Strobelite, Leviton, Precision Tube, Cinch-Jones, Mallory, Lancaster Lens, General Instrument, Trim, RCA, Stackpole, Eastman Kodak, Clarex and other reliable manufacturers.

NO SPECIAL TOOLS REQUIRED
All you need are a screwdriver and pliers. New spring connectors make fast, firm joints—no soldering. Hardware, wire, etc., included.

FUN FOR THE WHOLE FAMILY
This program offers such a variety of activities that every member of the family can find a field of interest. In many homes, working with the kits is a family affair enjoyed by all.

INVALUABLE FOR STUDENTS
Makes school science fascinating and easy. Gives students a head start. The kits are a valuable source of ideas and equipment for school projects.

MANY EXTRA PROJECTS
This new series is much improved and expanded. Many ideas originated by our members have been used to provide extra projects adding variety and excitement to every kit.

MEMBERS ARE ENTHUSIASTIC
Over 50,000 members have successfully used and enjoyed these kits. All the projects are proven and practical.

"Every kit is very complete in explanation, illustration, materials, hand ware and extras. This is what I like."
F. Batorick, Manhall, Pa.

"Hard-to-get equipment at a great price. Thanks to your kits I am enjoying new fields of science."
J. Allmang, White Springs, Illinois.

"The ABS Club kits are very practical, interesting and educational... and the projects always work!"
Larry Schutta, Eden, New York.

"I have immensely enjoyed every minute with the kits, and eagerly await the postman every month."
Fred Carter, Sanford, Florida.

"A wealth of information presented in an easy-to-learn manner."
Tom Webster, Vidor, Texas.

"It is incredible that we can obtain so much material for such a price. The manuals alone are of great value."
Sister M. Maris, Bishop Dwenger High School, Fort Wayne, Indiana

"I am an electronics student in the Air Force. We have not covered anything in school that your kits have not covered."
John G. Dill, Keesler Air Force Base, Biloxi, Miss.

"When I started your program I knew little about any of the topics that you presented. I now am repairing radios and photography is my main hobby."
Bruce Russell, Denver, Colo.

"A friend of mine is taking a correspondence course in electronics. I've learned more from your first two kits than he has in twenty lessons."
Ray P. Bloddeau, Leominster, Mass.

ELECTRICAL LAB

All the equipment for basic electrical experiments with Wheatstone Bridge (measures resistance), Magnetar and De-magnetizer, Thermocouple, Mystery Shock Box, Continuity Tester, Extinction Voltmeter, Solenoid Coil Tester, Electromagnetic Relay, Neon Lamp, Galvanometer, Induction Coil, Resistors, Chemicals and Electrodes for Plating and Electrolysis. **FOR SAFETY** a step-down Isolator. Transformer provides required current.



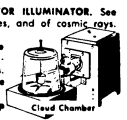
RADIO LAB AND COURSE

YOU BUILD A SHORTWAVE AND BROADCAST RADIO. 2-tube regenerative circuit. Uses 115V AC. **CARBON MICROPHONE WITH AUDIO AMPLIFIER.** **RADIO TRANSMITTER** for code or voice. **RIPPLE TANK WAVE GENERATOR** with variable frequency. Invaluable in the understanding of wave theory. **CODE PRACTICE OSCILLATOR** with manual. "Steps to a Ham License." All you need to pass the FCC Ham License Exam.



ATOMIC ENERGY LAB

ATOMIC CLOUD CHAMBER WITH PROJECTOR ILLUMINATOR. See the vapor trails of alpha and beta particles, and of cosmic rays. **SPINTRIOSCOPE.** Shows exploding atoms. **ELECTROSCOPE**—metal housed with Scale and Magnifying Viewer. Measures background radiation and tests sample sources. **SAFE RADIOACTIVE MATERIALS.** Alpha Source in handy container and Uranium Ore. Full instructions and explanations open up the fascinating field of nuclear physics.



STROBE LIGHT

A Neon Lamp that flashes at intervals you can synchronize with the speed of rotating or vibrating objects in order to "freeze" their motion to permit close study and checking frequencies and RPM. Flashes are timed by a variable frequency oscillator with a range of 20 to 600 cycles per second.



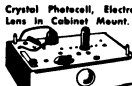
RADIO SERVICING TOOLS

SIGNAL TRACER. A valuable trouble shooting tool which permits you to "listen in" as you probe through a faulty circuit until you find the trouble spot. **CONTINUITY TESTER.** Pinpoints open circuits and test voltages. The use of both pieces fully described in accompanying manual.



PHOTOELECTRIC RELAY

Crystal PhotoCell, Electronic Amplifier, Relay, large Condensing Lens in Cabinet Mount. Features automatic on-off or holding circuit operation. Sensitivity Control, Plug-in Outlet for controlled circuit. Use for alarms, counters, etc. Operates on 115V AC. A basic unit for many exciting experiments.



DC POWER SUPPLY

Changes regular 110-120V AC to the direct current required for electronic projects and experimenting. Consists of a Power Transformer, Vacuum Tube Rectifier, 20/20 MFD Capacitor Filter Circuit, and a potentiometer Voltage Selector. A Safe Isolated Power Supply eliminates the need of expensive multi-volt batteries.



ULTRAVIOLET LAMP

140 watt filter type UV LAMP. Heavy metal cabinet for extra brightness, and a GE Projection Lamp. Consists of a Power Transformer, Vacuum Tube Rectifier, 20/20 MFD Capacitor Filter Circuit, and a potentiometer Voltage Selector. A Safe Isolated Power Supply eliminates the need of expensive multi-volt batteries.



ANALOG COMPUTER

Electronic Computer multiplies, divides, calculates powers, roots. Set up the problem on the scales of two potentiometers and find the answer on the scale of third potentiometer as indicated by a sensitive meter. Instruction Manual covers computer theory and practical use. Over 150 sample problems and answers demonstrate use with fractions, trigonometry, logarithms, physics formulas, ballistics, etc.



MICROCRAFT LAB

Microprojector shows microscopic subjects enlarged with brilliant detail on wall or screen. Has sturdy Steel Cabinet, large Condensing Lenses for extra brightness, and a GE Projection Lamp. Microscope features Ramsden Eye-piece for wide field viewing, Substage Light and Polarizing Filters. Magnifies up to 200X. Includes: Slides, Cover Glasses and Microscopy Manual.



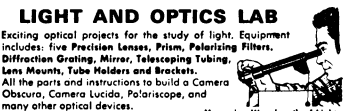
SURVEYOR'S TRANSIT

A practical Transit. 6X erect image telescope with range Finder Reticle for measuring remote distances and heights. Vernier reading for both horizontal and vertical scales. Leveling Head with Thumb Screw Adjustment and Spirit Level. Clamps under head hold wooden legs of tripod. (Legs not included.) Instructions cover elementary surveying, range-finding.



LIGHT AND OPTICS LAB

Exciting optical projects for the study of light. Equipment includes: Five Precision Lenses, Prism, Polarizing Filters, Diffraction Grating, Mirror, Telescoping Tubing, Lens Mounts, Tube Holders and Brackets. All the parts and instructions to build a Camera Obscura, Camera Lucida, Polaroscope, and many other optical devices.



PHOTOMICROGRAPHY CAMERA

Photographs subjects mounted on microscopic slides. Enlarges up to 100X. Takes clear, sharp pictures of specimens too small to be seen with the naked eye. A fully self-contained unit—no microscope required. Uses standard roll film, either 120 or 350, black and white or color. Make a photographic record of your projects with microscopic subjects.



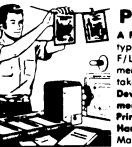
TELESCOPE AND MOUNT

30X erect image. Extends to 30" length. Five ground and polished Lenses. Ramsden Eye-piece. Sturdy Equatorial Mount makes it easy to follow the movement of heavenly bodies. Mount has fittings for wooden legs that complete the tripod (legs are regular 1x2 lumber not included).



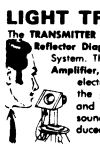
PHOTOGRAPHY LAB

A PRECISION 35MM ENLARGER... horizontal type with twin condensing lenses and 3" F/L projection lens. Produces quality enlargements up to 8" x 10". Contact Print Frame takes negatives up to 3 1/2" x 4 1/2". 3 Platte Developing Trays, Neon Safelight, Tray Thermometer, Film Clips, Developing Chemicals, Printing and Enlarging Paper and Darkroom Handbook. Make quality enlargements for 6¢. Make prints for only 2¢. Full instructions.



LIGHT TRANSMITTER-RECEIVER

The TRANSMITTER consists of a Light Source, a Modulating Reflector Diaphragm and an Optical Projection System. The RECEIVER is a Two-Stage Audio Amplifier, controlled by a Photoelectric Cell that catches the projected light beam and causes the original sound waves to be reproduced in the loudspeaker. Talking on a Light Beam.



WEATHER STATION

A REMOTE READING ANEMOMETER AND WIND-VANE... Flashing Neon Lights on indoor indicator board show wind speed and direction. Safety Power Card makes all connections safe. 100 ft. of Lead-in Wire. Plus—Air Tank Barometer with 4ft. indicator column. Sling psychrometer measures relative humidity. Rain Gauge measures rainfall to 1/100 inch. ALSO Cloud Chart and Forecasting Manual—a complete set-up for amateur meteorology.



You get ALL the equipment for ALL the above in ten monthly kits

SEND ONLY **\$1.00** TO ENROLL PAY ONLY **\$5.95** FOR EACH KIT THAT YOU RECEIVE

Take as few as you wish—or get all ten... it's up to you!

SOME QUESTIONS ANSWERED

Q. How is it possible? It seems incredible to be able to get all the equipment shown above in just ten kits — at only \$5.95 per kit!

A. The direct-to-you, "no middleman", club plan is just part of the answer. The other key is ABS Club's especially designed multi-use equipment. For example: the Microprojector quickly and easily converts into the Spectroscope, Photo Enlarger and Cloud Chamber Illuminator. Similarly, the Transit doubles as a Telescope Mount. Such multi-purpose design... plus club plan economy... makes possible this all-science program at a price everyone can afford.

Q. May members choose the order in which they receive their kits?

A. Yes. With the first kit members receive a list of the equipment and projects contained in each of the remaining nine kits. With this information they are able to choose the kit sequence that best suits their particular interest.

Q. Can members get their kits all at once instead of one-a-month?

A. Yes. At any time members can have the balance of their kits sent in one shipment. We recommend that you start on the kit-a-month plan because the monthly spacing will give you time to get the full measure of knowledge and enjoyment that each kit has to offer.

MAKE SCIENCE YOUR HOBBY!

NO EXPERIENCE NECESSARY — IT'S FUN! IT'S EASY!

NO OBLIGATION—NO RISK!

★ You take only as many kits as you wish. No minimum—you may cancel anytime.

★ Two weeks approval on each kit you take. You may return any kit for full refund.

Send coupon today—get your first kit on its way!

■■■■■ TRIAL MEMBERSHIP COUPON ■■■■■

AMERICAN BASIC SCIENCE CLUB, INC. Dept. SN
104 Heimann, San Antonio, Texas 78205

I wish to try the Kit-a-Month Program:

I enclose \$1.00 to enroll and \$5.95 for the first kit postpaid.

I enclose \$1.00 to enroll. Send first kit COD. I'll pay COD fee.

I understand if I am not satisfied with the first kit I may return it for a complete refund including the \$1.00 membership fee.

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There is nothing sacred about standing up in front of a seated audience and delivering a lecture. Major professional gatherings now permit an alternative—poster sessions. Here the audience strolls by, sampling visually. When one sees something interesting, one stops. Conversation ensues at whatever level of depth the parties can handle. Information is traded. Boredom is minimized.

How to make your story stand up and attract interest can be learned young. *Good photography is a great help.* A big print can snap the passerby to attention and convey the heart of the matter. Good science that goes unnoticed might as well be bad science. That's reason enough for a career scientist to get into photography while still in high school.

Our package of photographic hints for science fair contestants is free for the asking from Kodak, Department 841, Rochester, N.Y. 14650.





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Memory Store and Recall—10 registers
10 Memory Exchange with Last x
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4 Level Roll-Down Stack
12 Digit Accuracy—for Business
12 Digit Display (10 digit mantissa, 2 digit exponent) for scientific calculation
Log, LN
Trig (Sine, Cosine, Tangent, INV)
Hyperbolic Rectangular to Polar (INV)
Hyperbolic (Sine, Cosine, Tangent, INV)
 y^x , e^x , 10^x , \sqrt{x} , $1/x$, $x \leftrightarrow y$, π , CHS
 $\sqrt[y]{x}$ through Inverse
Factorials of up to 120
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What does this extra calculating power mean to you?

Here are some of the answers:

Reverse Polish Notation (RPN). Why RPN? Ask instead why proponents of algebraic entry **always** use an example of sum of products—**never** an example of product of sums. Compare the solutions to this problem.

Here's how it works: $(4 + 6) \times (8 + 5)$
Algebraic Entry: $4+6=$ MS $8+5=X$ MR=
Total: 12 key strokes (SR51 Add 2 more key strokes)

RPN Entry: 4 Enter 6 + 8 Enter 5 + x
Total: 9 key strokes!

RPN allows you to solve the problem the way it is written . . . in left to right sequence, eliminates restructuring, eliminates writing intermediate solutions, eliminates extra key strokes. You get the answer faster, with less key strokes, more simply, thus more accurately.

4 Level Roll-Down Stack. Just roll down the stack . . . all the intermediate information is at your fingertips . . . plus x and y register exchange . . . for easy review and correction.

10 Memory Store and Recall (with Last x Register). 10 addressable memories allow you more entries, more intermediate solutions, less writing down and remembering . . . the Last x Register automatically stores the last entry allowing easy correction, or recall for use as a constant. It all adds up to faster, better calculating with fewer errors.

Factorials of up to 120. Yes! The Corvus 500 does calculate up to 120. Enter 120, DSP, CHS (X!)—the Corvus 500, after completing the calculation will show a "flashing result"—now press 'CLX' once. The display stops flashing and shows 6.69 98 or 6.69502913 98, maintaining its 13 digit internal accuracy. Since we cannot show 3 digits of the exponent, the flashing display indicated that there should be a

one (1) as leading 3rd digit, to read 69 198 or 6.69502913 198.—the correct calculation.

Metric Conversions. Metrics are coming, and metric conversions will be a constant and ever increasing necessity. The Corvus 500 makes its metric conversions directly with pre-programmed functions.

"Click-Key" Keyboard. You'll like the positive "click-key" feel of the Corvus 500 keyboard. There's definite, positive "feel" when your entry is made . . . no doubts or questions. Saves time. Saves mistakes.

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- ✓ 30 pg. Instruction Manual

The compact, contoured case is 5½" long by 3" wide by 1¼" high, and weighs only 8 oz.

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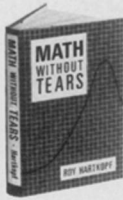
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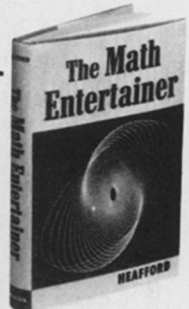
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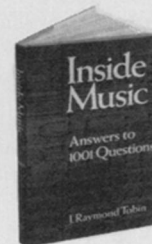
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