

American Basic Science Club's MASTER LAB... a HOME SCIENCE LAB AND COURSE

You Get ALL the Following Equipment in 9 Monthly Kits

ELECTRICAL LAB

All the equipment for basic electrical experiments with Wheatstone Bridge (measures resistance), Magnetizer and De-magnetizer, Thermocouple, Potentiometer, Continuity Tester, Extinction Voltmeter, Solenoid Coin Toss, Electromagnetic Relay, Neon Lamp, Galvanometer, Induction Coil, Resistors, Chemicals and Electrodes for Plating and Electrolysis.

FOR SAFETY a step-down Isolation Transformer provides required current.

(Available as a Separate Unit for \$8.95 Postpaid)

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 high speed Oscillator. Operates on the Master Lab DC Power Supply. (When bought as a separate unit uses a 90 V Battery that is included in unit price.)

(Available as a Separate Unit for \$7.95 Postpaid)

PHOTOELECTRIC RELAY

Crystal Photocell, Electronic Amplifier, Relay, large Condensing Lens in Cabinet Mount. Features automatic "on-or-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.

(Available as a Separate Unit for \$8.95 Postpaid)

ANALOG COMPUTER

Electronic Computer multiplies, divides, calculates powers, roots, logarithms. Set up the problem on the scales of two linear potentiometers and find the answer by listening for the null point on the third potentiometer. More accurate, educational, and practical than similar computers that sell for several times the price. Easy to assemble. Complete with Headphone.

(Available as a Separate Unit for \$4.95 Postpaid)

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 Microscope, Camera Obscura, Camera Lucida, Polariscopes, and many other optical devices.

(Available as a Separate Unit for \$6.95 Postpaid)

PHOTOGRAPHY LAB

A PRECISION 35MM ENLARGER... horizontal type with twin condensing lenses and 3" F/L projection lens. Produces quality enlargements up to 8"x10". Contact Print Frame takes negatives up to 3 1/2"x4 1/4". 3 Plastic Developing Trays, Neon Safelight, Tray Thermometer, Film Clips, Developing Chemicals, Printing and Enlarging Paper and Darkroom Hand-book. Make quality enlargements for 6c. Make prints for only 2c.

(Available as a Separate Unit for \$9.95 Postpaid)

RADIO LAB AND COURSE

SHORTWAVE AND BROADCAST RADIOS. 3-tube regenerative circuit. Uses 115V AC house current. Complete with headset. CARBON MICROPHONE and 2-stage AUDIO AMPLIFIER.

RADIO TRANSMITTER for code or voice.

RIPPLE TANK WAVE GENERATOR with variable frequency. Produces waves, nodal lines, etc. Invaluable in understanding wave theory.

SIGNAL TRACER, SOLDERING IRON and CONTINUITY TESTER. Valuable trouble

shooting tools. Use explained in accompanying manual "Simplified Radio-TV Servicing"

CODE PRACTICE OSCILLATOR with manual "Steps to a Ham License." All you need to pass the FCC Ham License Exam.

An exciting learn-by-doing course and lab. You get more than 25 dollars worth of electronic parts by GE, RCA, MALLORY, STACKPOLE, TRIM, CINCH, CENTRALAB, and other reliable manufacturers.

(Available as a Separate Unit for \$18.80 Postpaid)

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, 20/20MFD Capacitor Filter Circuit, and a Potentiometer Voltage Selector. Dial Control for 0 to 85V. A safe Isolated Power Supply that eliminates the need of expensive multi-volt batteries.

(Available as a Separate Unit for \$6.95 Postpaid)

PHOTOMICROGRAPHY LAB

"Projection-type" Camera takes and prints pictures of subjects mounted on microscope slides. Enlarges up to 100 times. Takes the place of microscope, camera and printer. No other equipment needed. Includes: Developing Trays, Chemicals, Paper, Microscope Slides and Safe Light. Uses standard sizes of regular roll film.

(Available as a Separate Unit for \$8.95 Postpaid)

SLIDE PROJECTOR

Has interchangeable projection assemblies—one for standard 35MM slides, and the other with greater magnification, for microscope slides. Comes with 140 watt GE Projection Lamp. Large Twin Condensing Lenses for extra brightness, sturdy Steel Housing with inner chimney and baffle for cool operation.

(Available as a Separate Unit for \$6.95 Postpaid)

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 Photo-electronic Cell that catches the projected light beam and causes the original sound waves to be reproduced in the headphone. Talking on a Light Beam

(Available as a Separate Unit for \$14.95 Postpaid)

ATOMIC ENERGY LAB

ATOMIC CLOUD CHAMBER WITH PROJECTOR ILLUMINATOR. See the vapor trails of alpha and beta particles, and of cosmic rays. SPINTHARISCOPE. 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.

(Available as a Separate Unit for \$6.95 Postpaid)

SPECTROSCOPE

Analyze spectra of glowing gases. See and identify the Fraunhofer Lines. A quality instrument featuring an easy-to-read built-in scale and a powerful condensing system for a bright spectrum. Equipment includes Alcohol Burner and a 2 Watt Neon Spectral Lamp. Full instructions cover theory and use.

(Available as a Separate Unit for \$5.95 Postpaid)

ULTRAVIOLET LAMP

140 watt filter type UV LAMP. Heavy metal cabinet, 6 Foot Cord, Rotary Switch. Produces dazzling color effects with invisible black light. Has many uses in the fields of Mineralogy, Crime Detection and Science. Accessories include Invisible Ink, Tracer Powder, Fluorescent Crayons.

(Available as a Separate Unit for \$6.95 Postpaid)

SURVEYOR'S TRANSIT

A practical Transit. 6X erect image telescope with Range Finder Reticule 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.

(Available as a Separate Unit for \$5.95 Postpaid)

TELESCOPE AND MOUNT

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

(Available as a Separate Unit for \$4.95 Postpaid)

WEATHER STATION

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

(Available as a Separate Unit for \$7.95 Postpaid)

9 KIT MASTER LAB Includes ALL the Equipment for ALL the Above...only \$39⁸⁰

SEND \$2⁰⁰ WITH ONLY COUPON

PAY \$4²⁰ ONLY

PLUS POSTAGE FOR EACH OF THE 9 KITS...ONE-A-MONTH CANCEL ANY TIME YOU WISH—MONEY BACK IF NOT DELIGHTED

MULTI-USE DESIGN—A MASTER LAB FEATURE

All the above equipment, as separate units, adds up to over \$140⁰⁰.

How can the 9 kit Master Lab have it all for only \$39.80?

Multi-use design is the answer. For example: The Slide Projector quickly and easily converts into the Photo-Enlarger, Spectroscope, Cloud Chamber Illuminator. Similarly, the Transit Head doubles as a Telescope Mount. Such multi-purpose design makes possible an all-science lab at an unheard-of low price. Multi-purpose design is used only where it is advantageous, and not for such applications as the permanently-mounted weather instruments, where it would not be practical.

KIT-A-MONTH—OR ALL AT ONCE

Get Master Lab on either plan (see coupon). You may start with the Kit-a-Month plan, and at any time get the balance of the 9 kit series in one shipment by sending \$4.20 for each of the unshipped kits.

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

You will enjoy the easy-to-use equipment and the exciting learn-by-doing course. The 9 instruction manuals and the 6 auxiliary text books are expertly written and clearly illustrated. Over 490 pages. Over 280 illustrations. A real science course for a solid science background.

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Allen T. Ayers, Physics Dept.
Jamestown High School, Jamestown, N. Y.

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