

# 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**, **Polariscope**, 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 1/2". **3 Plastic Developing Trays**, **Neon Safelight**, **Tray Thermometer**, **Film Clips**, **Developing Chemicals**, **Printing and Enlarging Paper** and **Darkroom Handbook**. 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 **Piezoelectronic 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 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.

(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 \$39<sup>80</sup>**

SEND **\$2<sup>00</sup>** WITH ONLY **COUPON**

PAY **\$4<sup>20</sup>** 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.

### SEPARATE UNITS ALL GOOD BUYS

You can order any of the individual units and be sure that it is a quality item and the best value in its field. The Master Lab, however, is the "buy of buys" and every science-minded person should try it.

### 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.

### ACCLAIMED BY EDUCATORS

Everyone interested in science should have your enjoyable kits. You are doing a wonderful job.

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

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\* You may return any kit and receive full refund.

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convince you that you want the Master Lab.

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- Start sending me the MASTER LAB in 9 monthly kits. I enclose \$2.00 and will pay \$4.20 plus COD postage on receipt of each kit. I may cancel unshipped kits at any time.
- Send me complete MASTER LAB (all 9 kits) in one shipment I enclose \$39.80 Full Payment, Postage Paid.
- Send me only the \_\_\_\_\_ Unit. I enclose \$ \_\_\_\_\_, Full Payment, Postage Paid.

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