

American Basic Science Club's Amazing MASTER LAB!

You Get ALL the Equipment on this Page in 8 Monthly Kits

SEND ONLY \$2.00 WITH COUPON

PAY \$3.95 ONLY

FOR EACH OF THE 8 KITS — ONE A MONTH
TOTAL PRICE FOR THIS MASTER LAB \$33.60



Trouble Shooting With a Signal Tracer

ELECTRONICS LAB AND RADIO 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.

DC POWER SUPPLY (Power Transformer, Vacuum Tube Rectifier and 20-20 mfd. capacitor filter circuit) converts home AC to the DC required for electronics.

STROBE LIGHT — oscillator controlled Neon Lamp "freezes the motion of vibrating or rotating objects and checks RPM.

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

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

SIGNAL TRACER and CONTINUITY TESTER. Valuable trouble-shooting tools. Use explained in accompanying manual, "Simplified Radio-TV Servicing."

PLUS — WHEATSTONE BRIDGE (Measures Resistance), MAGNETIZER AND DEMAGNETIZER, ELECTRO-MAGNETIC RELAY, BURGLAR ALARM, PROXIMITY DETECTOR, EXTINCTION VOLTMETER, GALVANOMETER, THERMOCOUPLE, SOLENOID COIN TOSSEY, and many more! The most exciting way to a solid background in electronics. BASIC ENOUGH FOR BEGINNERS, REWARDING ENOUGH FOR THE "PROS" A VALUABLE ELECTRONICS LAB with quality parts by RCA, GE, Pyramid, Centralab, Trim, Stackpole, Cinch, Mallory and other reliable manufacturers. Retail value of parts alone is over \$25.00. Includes hardware, hook up wire, solder and a bonus ELECTRIC SOLDERING IRON.

(Available as a Separate Unit for \$17.80 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)

PHOTOELECTRONIC 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 \$7.95 Postpaid)

35MM AND MICRO-PROJECTOR

Sturdy black steel lamp housing with inner chimney and baffle for cool operation; 140 Watt GE Projection Lamp; Large Twin Condensing Lenses for extra brightness. Rotary Switch; 6 Foot Cord. Includes an extra projection assembly to make it a microprojector.

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

SURVEYOR'S TRANSIT AND RANGE FINDER

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)

MICROSCOPE

100X, 150X and 200X. Precision ground and polished Lenses. Ramsden Eyepiece gives large field. Substage Illuminator with Condensing Lens provides easy viewing. Attachable Polarizing Filters give a jewel-like brilliance to crystals, etc. Slides and cover glasses included with Manual on Microscopy.

(Available as a Separate Unit for \$5.95 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)

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; 150 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)

PHOTO DARKROOM 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 1/4". 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)

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)

SPECTROSCOPE

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

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

LIGHT BEAM 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)

8 KIT MASTER LAB Includes ALL the Equipment for ALL the Above...only \$33.60

SEND ONLY \$2.00 WITH COUPON

PAY \$3.95 ONLY

PLUS POSTAGE FOR EACH OF THE MASTER LAB'S 8 MONTHLY KITS.
YOUR SATISFACTION OR MONEY BACK... CANCEL ANY TIME YOU WISH

HOW IS IT POSSIBLE?... A GOOD QUESTION!

All the above equipment, as separate units, adds up to over \$100.00. How can the 8 kit Master Lab have it all for only \$33.60?

The answer is in the versatile, multi-purpose equipment. For example: the 35MM Projector quickly and easily converts into the housing for the Ultraviolet Lamp, Spectroscopic, Photo Enlarger, Cloud Chamber Illuminator, etc. Similarly, the Surveyor's Transit Head doubles as an Equatorial Mount for the Telescope. The unique Light Beam Transmitter-Receiver is made up of the two stage Audio-Amplifier of the Electronics Lab and parts of the Slide Projector and Photoelectric Units. Such multi-purpose use makes it possible for the Master Lab to provide a wide range of practical equipment at a fraction of the customary cost. Multi-purpose design is not used where it would be impractical: for the permanently mounted weather instruments, for example.

KIT-A-MONTH OR ALL AT ONCE

The Master Lab may be received either on the kit-a-month plan, or all 8 kits in one shipment (see coupon). You may start out on the kit-a-month plan and change at any time. For example: if, after having received 3 kits, you decide you would like the remaining 5 all at once, you would send \$19.75 (5 x \$3.95) for full payment, postage paid. We suggest you start with the kit-a-month plan. It is preferred by many.

SEPARATE UNITS ALL GOOD BUYS

Although we strongly recommend the complete Master Lab — you can order any of the individual units and be sure that it is the best buy in its field. Nowhere else can you get a Photo Lab with Enlarger, Contact Printer, and all the other accessories for only \$9.95 or a practical Transit for only \$5.95. Similarly, all the units are priced far below competitive items of comparable quality.

DEVELOPED BY TOP SCIENTISTS

The Master Lab was developed with the Southwest Research Institute of San Antonio, Texas, a non-profit public service organization, nationally known as the center of scientific activity in the Southwest. Its varied programs range from polar expeditions to high temperature experiments for missile research. The Master Lab is the result of the enthusiastic efforts of top scientists of this highly regarded research organization.

ACCLAIMED BY EDUCATORS

"You offer a range of experiments usually performed only in the better high school and college laboratories. The number of concepts presented, and the clarity and concreteness of their development is amazing."

R. M. HELM, Prof. of Physics
East Carolina College, Greenville, N. C.



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MASTER LAB A REAL SCIENCE COURSE

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- Send me the complete MASTER LAB in 8 monthly kits. I enclose \$2.00 and will pay \$3.95 plus COD postage on receipt of each kit. I may cancel unshipped kits at any time.
- Send me complete MASTER LAB (all 8 kits) in one shipment I enclose \$33.60 Full Payment, Postage Paid.
- Send me only the _____ Unit. I enclose \$ _____, Full Payment, Postage Paid.

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