



Space Age Science — An Exciting Hobby for All!

The **AMERICAN BASIC SCIENCE CLUB** announces

a new expanded line of **EDUCATIONAL SCIENCE UNITS:**
 Every one a unique and unequalled value! Choose from the exciting selection below — or get them ALL in one great **MASTER LAB!**

UNIT 1 ELECTRONICS LAB AND COURSE—\$17.80

ALL THE EQUIPMENT FOR 65 PROJECTS INCLUDING:

RADIO — SHORTWAVE AND BROADCAST. Three-tube regenerative circuit. Uses 115V AC house current. Complete with Headset.
CARBON MICROPHONE and two-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) . . . **SOLENOID COIN TOSSE** . . . **MAGNETIZER** and **DEMAGNETIZER** . . . **ELECTROMAGNETIC RELAY** . . . **BURGLAR ALARM** . . . **PROXIMITY DETECTOR** . . . **EXTINCTION VOLTMETER** . . . **GALVANOMETER** . . . **THERMOCOUPLE** . . . "MYSTERY" **SHOCK BOX** . . . and many more!

Graphic demonstrations with **VACUUM TUBES, TRANSFORMER, POTENTIOMETER, CAPACITORS,** and other electronic components make it indelibly clear what they do and how they do it. Vivid experiments illustrate the **ELECTRON THEORY, DC and AC CHARACTERISTICS, INDUCTANCE, REACTANCE, CAPACITANCE, RECTIFICATION, AMPLIFICATION** and other electronic principles.

The easiest, most exciting way to a solid background in electronics.
 Basic enough for beginners — rewarding enough for the "Pros."

All the equipment for all the above with full instructions (4 manuals, 2 auxiliary textbooks) plus bonus **ELECTRIC SOLDERING IRON** for only \$17.80 Postpaid.



A valuable electronics Lab with parts by RCA, Mallory, Pyramid, GE, Centralab, Stackpole, Trim and other reliable mfgs. Retail value of parts alone over \$25.00.

UNIT 2 OPTICS AND PHOTO LAB — \$11.95

35MM PROJECTOR. Sturdy black steel lamp housing with inner chimney and baffle for cool operation; 140W Projection Lamp; Large Twin Condensing Lenses for extra brightness; Rotary Switch; 6 Foot Cord. Included is an extra projection assembly that makes it a Micro-Projector as illustrated.

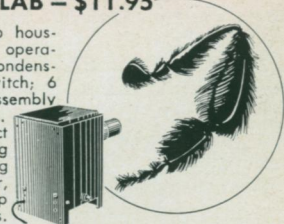
PHOTO-DARKROOM LAB. Enlarger — Contact Printer, Safe Light, 3 Plastic Developing Trays, 2 Clips, 2 Thermometers, Developing Chemicals, Printing and Enlarging Paper, Darkroom Handbook. All you need to develop negatives, make prints and enlargements.

MICROSCOPE. 50X, 150X, 200X. Precision ground and polished Lenses. Ramsden Eyepiece, Sub-stage Lighting, Polarizer. Produces photomicrographs in connection with Photo Lab; Microscopy manual included.

ULTRAVIOLET LAMP. Produces dazzling color effects with invisible black light. Used for crime detection, mineralogy and science. Fluorescent Ink, Crayons and Tracer Powder are included with instructions on UV Applications.

SPECTROSCOPE (at left). 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.

Complete Photo and Optics Lab only \$11.95 Postpaid.



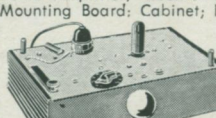
UNIT 3 ANALOG COMPUTER — \$3.95

ELECTRONIC COMPUTER. Electronically multiplies, divides, calculates powers, roots, logarithms. The problem is set up on the scales of two linear potentiometers and the answer is found by listening for the null point on the third potentiometer. Powered by two flashlight batteries (not included). Assembles in minutes — no soldering. Comes with Headphone, three sets of scales and complete instructions. Only \$3.95 Postpaid.



UNIT 4 PHOTOELECTRONIC RELAY — \$7.95

COMPLETE PHOTO-RELAY UNIT. Supersensitive Crystal Photocell; rugged Electronic Amplifier; Double Throw Relay; large 1 7/8" diameter Condensing Lens; Mounting Board; Cabinet; Hardware; Hook-up Wire; Solder and complete instructions for easy assembly (soldering required). Features automatic "on and off" or holding circuit operation; Sensitivity Control; Plug-in Outlet for controlled circuit. Use it for door announcers, counters, alarms, day-night light switches, etc. Operates on 115V AC. Complete Photo-Relay set-up. Only \$7.95 Postpaid.



UNIT 6 ATOMIC ENERGY LAB — \$5.95

ATOMIC CLOUD CHAMBER WITH PROJECTOR ILLUMINATOR. See the vapor trails of speeding alpha and beta particles, and of cosmic rays from outer space. **SPINTHARISCOPE** gives a dramatic magnified ringside view of 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 (U₂O₈ 0.229%). Full instructions and explanations open up the fascinating field of nuclear physics. \$5.95 Postpaid.



UNIT 5 TELESCOPE AND TRANSIT — \$5.95

TELESCOPE with combination **ALT-AZIMUTH** and **EQUATORIAL MOUNT** 44X erect image, 22X astronomical telescope, 28" long. Four ground and polished Lenses. Ramsden Eyepiece gives large field. **SURVEYOR'S TRANSIT LEVEL** adapts from alt-azimuth mount. Has vertical and azimuth scales, Spirit Level and Leveling Platform. A practical instrument for laying out foundations, ditches, fences, etc. Also used as a range finder. **Telescope, Mount, and Transit** (everything except the wooden legs of tripod) complete with full instructions . . . only \$5.95 Postpaid.



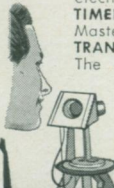
UNIT 7 WEATHER STATION — \$6.95

CUP ANEMOMETER and **WINDVANE** give remote readings of wind speed and direction on indoor Mounting Board (lead-in wire not furnished). **BAROMETER, SLING PSYCHROMETER** (measures relative humidity), **RAIN GAUGE, CLOUD CHART, WEATHER MAP.** Complete set-up for the amateur meteorologist, including Forecasting Manual. Only \$6.95 Postpaid.



UNIT 100 ALL THE PROJECTS OF ALL THE UNITS (1, 2, 3, 4, 5, 6 and 7) IN ONE BIG "MASTER LAB" ONLY \$3360 Postpaid

MANY EXTRA PROJECTS WITH THE **MASTER LAB** are made possible by combinations of the various units. For example the electronic equipment of Unit 1 supplies an **ELECTRONIC TIMER** for the Photography Lab of Unit 2. Another Master Lab plus is the **LIGHT BEAM TRANSMITTER - RECEIVER** shown below. The Light Beam "Receiver" combines the photocell of Unit 4 with the audio amplifier of Unit 1. The "Transmitter" uses the projection equipment of Unit 2.



Talking on a Light Beam

NOTE: **MASTER LAB** ALSO AVAILABLE IN A SERIES OF 8 MONTHLY KITS

SEND **\$200** WITH **Coupon** ONLY **\$395** Plus COD Postage on arrival of each kit. (Complete Master Lab in 8 monthly shipments.)

The Master Lab is much more than a group of fascinating projects. It is a true "Learn-By-Doing" science course with 8 instruction books and 6 auxiliary manuals — jam-packed with science information. **EASY—FUN—EDUCATIONAL!**

ACTUAL USE IS THE ONLY WAY TO APPRECIATE THIS MASTER LAB.
ORDER YOURS TODAY — ON 10 DAY APPROVAL — MONEY BACK GUARANTEE.
SEE FOR YOURSELF . . . YOU WILL BE AMAZED AND DELIGHTED!

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"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,
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Unit 6 \$5.95	Unit 7 \$6.95	UNIT 100 "MASTER LAB" \$33.60		

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 Start sending me AMERICAN BASIC SCIENCE CLUB'S UNIT 100 "MASTER LAB" in a series of 8 monthly kits. I enclose \$2.00 and will pay \$3.95 plus COD postage on arrival of each kit. I may cancel unshipped kits any time.

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