

A Logos Science Lab Kit for use with BJU Press Physical Science (5th Ed.)

Supplies Included

Alligator clip leads (4), Lab 10B
Balloons (4), Lab 8A
Battery holders for alkaline
D-Cells(3), Labs 10B, 11B
Battery, 9 V, Labs 18A, 19B
Beaker, 15 mL, Labs 2B, 18B, 21B
Beaker, 30 mL, Labs 13A, 18B, 19B
Beaker, 50 mL, Labs 13A, 19A, 20A
Beaker, 150 mL, Labs 2B, 8B, 19B,
21A, 21B
Beaker, 250 mL, Labs 2A, 9A, 9B,
20A, 20B
Bolt, nut and 2-washers Lab16A
Candle, tea, Lab 2B
Card stock, Lab 11 A
Christmas lights, (3), Lab 10B
Clamp, spring, Lab 8B
Clothes pins (3), Labs 3B, 9B
Cloth, silk, Lab 10A
Compass, Lab 11A
Conductivity tester, Lab 18A
Cups, 8 oz, foam (6), Lab 2A, 9A
Cups, mini plastic (3), Labs 8B,
17A, 18A
Cylinder, graduated, 10 mL, Lab
21B
Cylinder, graduated, 100 mL, Labs
2A, 2B, 13A
Diffraction grating, Labs 14B, 17A
Dinosaurs, mini (2 types), Lab 2A
Dry wall tape, (11.6') Lab 3A
Electrolysis device, Lab 19B
Goggles, safety, most labs
Index card, 3"x 5" (3) unlined, Labs
14A, 14B, 15B
Iron filings packet, Labs 11A, 20A
Laser pointer, Lab 3B
Lens, convex, 200 mm, Lab 15B
Lens holders, (2) Labs 14A, 14B,
15B
Lever, 20 cm, Labs 7 A, 8A
Lodestone/magnetite, Lab 11A
Magnets, bar (2), Labs 11A, 20A
Marble, glass, Labs 5A, 16A

Metal strip, brass (2), 1/8 x 1 1/4",
Lab 18A
Metal strip, copper 1/8"x 1 1/4",
Lab 18A
Metal strip, zinc 1/8"x 1-1/4", Lab
19B
Metric tape measure, Labs 3B, 6A,
7A, 7B, 12A, 12B, 15B
Mirror, plane, Lab 15A
Multimeter, Lab 14 B Paperclips,
small (box of 100), Labs 7A, 8A,
11A, 11B, 12A, 12B
Paperclips, large, Lab 7A
Pin, straight (6), Lab 15A
Pipet, graduated (8), Labs 2B, 8A,
9A, 19B, 21A, 21B
Pipet, thin-stem, (4) Lab 8B
Protractor, Labs 4A, 12A, 15A
Reaction plate, 24-well, Labs 2B,
17A, 21A
Rod, 3/8" x 4" aluminum, Lab 11B
Rod, plastic, Lab 1 OA, 11B
Rod, wood, 4", Lab 11B
Rubber band, 1/4" and 1/8", Labs
2B, 9B, 20A
Ruler, Labs 2A, 3A, 3B, 4A, 5B, 6A,
13A, 14B, 15A, 15B, 16A
Sand, 1 teaspoon, Lab 20A
Sandpaper, 7" x 3.5", Lab 5B
Scale, digital, Labs 7A, 7B, 9A, 9B,
12A, 12B, 17A, 20B
Scale, spring, 100 g, Labs 5B, 7B, 8B
Solar cell, Lab 14B
Spoon, measuring 1 cc, Labs 2B,
18A, 18B, 19B
Spring, steel, Lab 12B
Steel bolt, 3/8" x 3.5", Lab 11 B
Steel wool, 2 g, Lab 1 OB
String, 1 m, Lab 12A
Stir rod, glass, Labs 2B, 11B, 19B,
20B, 21B
Support board, 0.75 "x 3.5" x 5",
Labs 5B, 7A, 8A, 12A, 12B, 15A
Test tubes, 12 x 75 mm (2), Lab
19B

Thermometer, Labs 8B, 9A, 9B, 20B
Thread, 45", Labs 2A, 8A, 1 OA
Tubing/or marble track, Lab 16A
Tubing, plastic, 1/4" x 12", Lab 19A
Tuningfork, 1024 Hz, Lab 13A
Washers, large (20), Labs 5B, 7A,
7B, 12A, 12B
Wire, insulated copper, Lab 11B
Wire, nichrome inoculating, 4",
Lab 17A
Wood block, with holes 1.25" x
1.25" x .5", Lab 20A
Wood dowel, 1/8" x 12" long, Lab
13A
Wood shape, 2" circle with 1/4"
hole in middle, Lab 16A
Wood shape, 2" x 2" triangle with
1/4" hole in the middle, Lab 16A
Wood splints (6), Lab 19B Wood
cart, Lab 7B

CHEMICALS

Bromothymol blue, 5 mL, Lab 19A
Calcium chloride, 7 g, Labs 17A,
18B
Calcium hydroxide, Lab 19A
Copper (II) sulfate, 5 g, Labs 18B,
19B
Epsom salt, 15 g (magnesium
sulfate), Labs 2B, 18B, 19B
Hydrochloric acid, 0.1 M, 15 mL,
Labs 21A, 21B
Potassium chloride, 3 g, Lab 18B
Silicon dioxide, 3 g, Lab 18B
Sodium hydroxide, 0.1 M, 15 mL,
Labs 2B, 19A, 21A
Strontium chloride solution, 16%,
Lab 17A

INDICATORS

Litmus paper, purple Lab 21A
Universal indicator strip, Labs 21A,
21B



WARNING! CHOKING HAZARD:

-Small parts. Not for children under 3 years.

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Supplies Needed

Lab 1A	None
Lab 1B	Notepaper
Lab 2A	Calculator, cardboard box, scissors, water
Lab 2B	Aluminum foil, baking soda, coffee cup, distilled water, 1/2 cup chopped red cabbage, small cooking pots, small jar with lid, spoon, tablespoon, stove top or hot plate, sugar, table salt, white vinegar, wire mesh strainer
Lab 3A	Scissors, transparent tape
Lab 3B	Masking tape, scientific calculator, white paper
Lab 4A	Colored pencils (different colors), *robot range diagram PDF file
Lab 4B	Calculator
Lab 5A	Free fall image PDF file•, masking tape, modeling spreadsheet, stopwatch or timer, V-track of (1.6 m), felt tip marker
Lab 5B	Aluminum foil, flooring, graph paper, masking tape, wax paper
Lab 6A	Bathroom scale, calculator, staircase, stopwatch or timer
Lab 6B	Calculator
Lab 7A	Books, masking tape
Lab 7B	Books, calculator, masking tape, wood ramp (1' x 6' lumber 48" long)
Lab 8A	Books, masking tape, empty plastic 2 L soda bottle with cap, tap water
Lab 8B	Graph paper, ice, shallow pan, source of heat, tap water
Lab 9A	Ice cubes, water at room temperature
Lab 9B	Calculator, hot plate or stove, pot holder, stopwatch or timer, water
Lab 10A	Felt tip pen, miscellaneous chargeable objects, oat cereal, transparent tape, water faucet
Lab 10B	D-cell batteries (2)
Lab 11A	Masking tape, notebook paper
Lab 11B	Masking tape, D-cell alkaline batteries (3)
Lab 12A	Books, masking tape, modeling spreadsheet*, stopwatch
Lab 12B	Books, masking tape, pliers, stopwatch or timer
Lab 13A	Alarm, black felt marker, calculator, a large sheet of paper, pencil with eraser, tap water
Lab 13B	Computer, Audacity® software•, sound file collection•
Lab 14A	Flashlight, graph paper, masking tape, scissors, small book
Lab 14B	Calculator, flashlight (non-LED), masking tape, white paper, paper towel tube
Lab 15A	Cardboard sheet 12"x 12", masking tape, white paper
Lab 15B	Calculator, flashlight
Lab 16A	Masking tape, cardboard disk 6-8" diameter, cardboard box 18" square x 5" deep
Lab 16B	Small candy pieces that are disc shaped with a logo on one side (40), small box with lid

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Supplies Needed

Lab 17A	Butane grill lighter, distilled water, pliers, table salt, tablespoon
Lab 17B	Robot data cards PDF•
Lab 18A	Baking soda, cola soft drink, distilled water, orange drink mix, paper towels, sugar, table salt, tap water, vegetable oil
Lab 18B	Baking soda, computer with internet access, periodic table, white vinegar
Lab 19A	Empty 20 ounce water bottle with cap, baking soda, distilled water, hot glue gun and glue sticks, measuring teaspoon, white vinegar
Lab 19B	Masking tape, water
Lab 20A	Aluminum foil, distilled water, hot plate, ice cubes, orange juice, pot holder, small jar with lid, table salt
Lab 20B	Calculator, distilled water, hot plate, pot holder, spoon, table salt
Lab 21A	Calcium carbonate antacid, coffee, cola soft drink, distilled water, ammonia cleaner, lemon-lime soft drink, milk, vegetable juice, white vinegar
Lab 21B	Baking soda, calculator, distilled water

•Found online under *Physical Science 5th Edition Resources web page*

NOTE: For the stopwatch, use a cell phone or go online.