

A Logos Science Lab Kit for use with BJU Press Physics (4th Ed.)

Supplies Included

Aluminum bar, Labs 12A, 14A	Fishing line (10-lb., 1.5 m), Lab 7A	9B Scale, spring (2), Labs 5A, 5C,
Axles (2), Lab 9A	Foam cover for cups, Lab 12A	6A, 7 A, 12A,
Badminton birdie (2), Labs 4B, 8A	Goggles, Labs 7 A, 8B, 11 C	14A
Ball, golf, Lab 8A	Knife switch, Labs 19A, 19B	Spool, Lab 19A
Ball, tennis, Labs 4A, 8A	Laser pointer, Lab 22	Spring, metal, Lab 9B
Balloons, Lab 2B	LED, 4 different colors, Lab 24	Spring clamp, Labs 11 B, 11 C
Battery, D-cell (3), Labs 16A, 17 A, 17B, 17C, 19A	Lens, convex (converging), Lab 21B Level, Lab 3A	Stoppers, rubber, two-hole (5), Lab 7 A
Battery, 6-volt, Lab 18	Magnets, bar (2), Lab 18	Straw, Labs 9A, 15B
Battery, 9-volt, Lab 19B	Marker, fine point, Labs 7 A, 20B, 22 Mass, 50 g, Labs 5B, 6B	String, Labs 5A, 6A, 6B, 1 OA, 12A, 14A, 15B, 19A
Battery holder, Lab 17 A	Mass, 100 g (5), Labs 6A, JOA	Syringe with cap, 60 cc, Lab 11 C
Beaker, 30 mL, Lab JJB	Mass, slotted, 250 g (3), Lab 5A	Tape measure, metric, Labs 1A, JB, 2A, 2B, 3B, 4A, 4B, 5B, 5C, 6B, 7A, 8A, 8B, 9B, 10B, 24
Bolt, steel, Labs 14A, 19B	Mass set, metric, Labs 9B, 19A	Tape, magnetic, Lab 19B
Car, matchbox, Labs 2A, 5 C	Mirror, concave, Lab 20C	Tape, masking, Labs 3A, 5A, 7A, 9A, 10B, 15B, 18,20B, 21A
Cart, dynamic (2) Labs 6B, 9 B	Mirror, plane, Labs 20B, 21A	Tape, Velcro®, Lab 9 B
Clamp, Lab 19A	Mirror, support, Labs 20B, 20C	Thermometer, Labs 11 C, 12A,
Cloth, silk, Labs 15A, 15B	Multimeter (2), Labs 16A, 16B, 17A, 17B, 17C, 19A, 20A, 24	Tube, clear, 15 cm (2), Labs 10B, 15B
Cloth, wool, Labs 15A, 15B	Photovoltaic cell, Lab 20A	Tube, clear, plastic, 20 cm, with scale, Lab 1 OB Tubing, plastic, Lab 7A
Compact disc, Lab 22	Pins, map, Labs 2B, 20B, 21A	Tuningfork, 1024 Hz, Lab 10B
Compass, magnetic, (2), large and small Labs 3B, 18	Pipet, thin-stem, Lab 11 B	Wheels (4), Lab 9A
Copper bar, Lab 12A	Protractor, clear, Labs 2A, 3A, 5A, 6A, 6B, 10A, 20B, 21A, 21B, 22, 25B	Wire, 12", #12, Labs 2B, 18
Cord, Lab 5C	Resistors (5), Lab 17A, 17B, 17C	Wire, insulated, Lab 19B
Cup,foam, 8 oz. (3), Lab 12A	Rheostat (0-170 Ω), Lab 19A	Wire leads with alligator clips (6), Labs 16A, 16B, 17A, 17B, 17C, 18, 19A, 20A, 24 Wood blocks (2), Lab 22
Cup,foam, 14 oz., Lab 15B	Rod, glass, Labs 15A 15B	
Cylinder, graduated, 100 mL, Labs 1 OB, 12A, 14A	Rod, polyethylene Lab 14A	
DC motor, Lab 19A	Rubber bands, Labs 8B, 11 C	
Dish, refractive (semicircular dish), Labs 20B,21A	Ruler, metric, Labs 4A, 8A, JJB, 14A, 16B, 18, 20B, 20C, 21A, 21B, 25B	
Dice (2, different colors), Lab 13	Scale, digital, Labs 6B, 7A, 8A, 8B,	
Diffraction grating, Lab 24		



WARNING! CHOKING HAZARD:

-Small parts. Not for children under 3 years.

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Supplies Needed

Lab 1A	Computer paper, computer with spreadsheet program
Lab 1B	Computer paper, computer with spreadsheet program
Lab 2A	Books, computer with video analysis and curve-fitting software, ramp (3' x 6" x 3/4" board or shelf), video camera feature of a smartphone
Lab 2B	Metal pan, smartphone with physics app, timer
Lab 2C	Smartphone with physics app
Lab 3A	Wood dowel (3/8" x 1 m)
Lab 3B	Computer paper
Lab 4A	Computer with video analysis software, video camera feature of a smartphone
Lab 4B	Computer with video analysis software, video camera feature of a smartphone
Lab 5A	Card table, graph paper
Lab 5B	Computer with video analysis software, fan cart, video camera feature of a smartphone
Lab 5C	Bathroom scale, bucket (5-gallon), craft sticks, dowel (1/4" diameter, 8" length), water (or sand), white glue
Lab 6A	Object to slide (that weighs less than the maximum reading on the spring scale), wooden board (3' x 1' x 3/4") or a bookcase shelf
Lab 6B	Books, cloth towels, computer with video analysis and spreadsheet software, ramp (about 3' x 6" x 3/4" board or shelf), video feature of a smartphone
Lab 7A	Timer/stopwatch
Lab 7B	Board (15 cm x 1 cm), clamps or tape, computer with spreadsheet program, smartphone with physics app, spinning stool or Lazy Susan turntable
Lab 8A	Computer with video analysis and spreadsheet software, video feature of a smartphone
Lab 8B	Action figure
Lab 9A	Egg, paper
Lab 9B	Computer with video analysis and spreadsheet software, video feature of a smartphone
Lab 10A	Support for pendulum, timer
Lab 10B	Water
Lab 11A	None
Lab 11B	Books (thin), food coloring, graph paper, water
Lab 11C	Heat source, hot mitts, ice, kitchen tongs, pan (bowl or jar — approx. 1 qt.), water
Lab 12A	Hot tap water, ice, paper towels
Lab 12B	Materials to build a solar oven as determined by teacher
Lab 13	None
Lab 14A	Salt, water, water glass
Lab 14B	Computer paper, pennies, tape (clear plastic)

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Supplies Needed

Lab 15A	Any materials needed as determined by individual students inquiry lab
Lab 15B	Aluminum foil, scissors, water faucet
Lab 16A	Aluminum foil, colored pen or pencil, glass baking pan (or colorless plastic tray), graph paper, salt, small metal cans (round), water
Lab 16B	Aluminum foil (two sheets of 20 cm x 28 cm), physics textbook, scissors
Lab 17A	None
Lab 17B	None
Lab 17C	None
Lab 18	Books, cardboard, cardboard box, computer paper
Lab 19A	Support stand, timer
Lab 19B	Cardboard box (15 cm x 15 cm x 3 m), platform
Lab 20A	Bulbs (clear, incandescent, 25W, 50W, 75W, 100W), hot mitts, lamp base, support for optics
Lab 20B	Colored pencils, corrugated cardboard, paper
Lab 20C	Computer paper; light source with support
Lab 21A	Computer paper, corrugated cardboard
Lab 21B	Clear tape, computer paper; lamp, supports for lamp and converging lens
Lab 22	Cardboard screen, computer paper, tape
Lab 23	Computer with internet access
Lab 24	Computer with spreadsheet software; DC power supply, supports for tape measure, tape
Lab 25A	Box with cover, M&Ms® candies (64)
Lab 25B	None