

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

Supplies Included

Alligator clip leads, Lab 17 A	Iron filings, Lab 6	Measuring spoon, 1 cc, Labs 2B, 9A, 13B Mechanical pencil lead, Lab 17 A
Aluminum bar, Lab 13A	Magnifying glass, Lab 11 B	Minerals (calcite, pyrite, quartz), Lab IIB Molecular model kit, Lab 7
Balloon, Lab 1 OB	Marble, 10 mm (4), Lab IIA	Multimeter, Lab 17 A
Battery, 9-volt, Labs 2B, 9A	Measuring spoon, 1 cc, Labs 2B, 9A, 13B Mechanical pencil lead, Lab 17 A	Nail, galvanized, Lab 17A
Beaker, 15 mL, Labs 9C, 16A, 16B, 17B Beaker, 30 mL, Labs 13B, 16B, 17B	Minerals (calcite, pyrite, quartz), Lab IIB Molecular model kit, Lab 7	Paraffin wax, Lab 6
Beaker, 50 mL, Labs 4A, JOB, IIA, 17A, 17B	Multimeter, Lab 17 A	Pipet, graduated, Labs 2B, 9A, 9C, JJA, 15, 16B, 17B, 18A, 18B
Beaker, 150 mL, Labs 2A, 2B, 9A, 9C, 1 OB E, 13A, 15, 17B	Nail, galvanized, Lab 17A	Pipets, mini, Lab 16A
Candle, tea, Labs 4A, 1 OA, 15, 19	Paraffin wax, Lab 6	Plastic samples, PET, HDPE, PVC, LDPE, PP, PS, Lab 19
Capillary tubes, Lab 1 OA	Pipet, graduated, Labs 2B, 9A, 9C, JJA, 15, 16B, 17B, 18A, 18B	Reaction plate, 2 4-well, Labs 16B, 18B Reaction plate, 96-well, Labs 8, 14, 16A Rubber bands, small, Lab 1 OA
Clear vial with lid, 4 mL, Lab 12A	Pipets, mini, Lab 16A	Ruler, Labs 3A, 3B, 5, 1 OA, 1 OB, 12B
Color chart for O ₂ test, Lab 12A Conductivity tester, Lab 6	Plastic samples, PET, HDPE, PVC, LDPE, PP, PS, Lab 19	Sand, Lab 2A
Cork, Lab 19	Reaction plate, 2 4-well, Labs 16B, 18B Reaction plate, 96-well, Labs 8, 14, 16A Rubber bands, small, Lab 1 OA	Sandpaper, Lab 17 A
Cups, 2 oz, Lab 19	Ruler, Labs 3A, 3B, 5, 1 OA, 1 OB, 12B	Safety data sheets (SDS), Lab JB
Cups, 8 oz, foam, Labs 13A, 13B, 18A Cups, 9 oz, clear (6), Labs 12A, 17B, 18A Cup, 12 oz, clear, plastic, Lab 1 OA	Sand, Lab 2A	Steel wool, Lab 13B
Cylinder, graduated, 10 mL, Labs 2A, 12B, 13B, 16B	Sandpaper, Lab 17 A	Stir rod, Labs 9C, 1 OA, 12A, 12B, 15, 19 String, 2 4", Lab 1 OB
Diffraction grating, Lab 4A	Safety data sheets (SDS), Lab JB	Tape measure, Lab 3A
Digital scale, Labs 2A, 4B, 9B, 9C, 1 OB, 12A, 12B, 13A, 13B, 17B	Steel wool, Lab 13B	Test tubes, 16x1 25 mm (9), Labs 6, JOB, 12B, 15, 18A
Dry wall tape, 10.5' roll, Lab 3A Electrolysis device, Labs 2B, 9A Evaporating dish, 50 mL, Labs 2A, 9B Filter paper, Labs 2A, 12A	Stir rod, Labs 9C, 1 OA, 12A, 12B, 15, 19 String, 2 4", Lab 1 OB	Thermometer, Labs 1 OA, 1 OB E, IIA, 12A, 12B, 13A, 13B, 18A
Foam cup cover, Labs 13A, 13B	Tape measure, Lab 3A	Toothpicks, plastic, Labs 14, 16B
Funnel, 85 mm, Labs 2A, 1 OB, 12A, 17B	Gloves, vinyl, Labs IIA, 17B	Vernier caliper, Lab 3B
Gloves, vinyl, Labs IIA, 17B	Goggles, safety, Labs JB, 2B, 4A, 6, 8, 9A, 9B, 9C, JOB, IIA, 12A, 12B, 13B, 14, 15, 16A, 16B, 17A, 17B, 19	Wash bottle, Labs 8, 9B, 9C, 14, 16A, 16B, 17B, 18B
Goggles, safety, Labs JB, 2B, 4A, 6, 8, 9A, 9B, 9C, JOB, IIA, 12A, 12B, 13B, 14, 15, 16A, 16B, 17A, 17B, 19	Iron filings, Lab 6	Wire, copper, Lab 19
	Magnifying glass, Lab 11 B	Wood splints, Labs 2B, 4A, 9A
	Marble, 10 mm (4), Lab IIA	



WARNING! CHOKING HAZARD:
-Small parts. Not for children under 3 years.

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CHEMICALS and INDICATORS

Acetic acid, HC₂H₃O₂, 0.1 M, Lab 16A
Calcium nitrate, Ca(NO₃)₂, 0.1 M, Lab 8
Copper nitrate, Cu(NO₃)₂, 0.1 M, Lab 8
Distilled water, Lab 16B
Hydrochloric acid, HCl, 0.1 M, Labs 9C, 14, 16A, 17B, 18A
Iron III chloride, FeCl₃, 0.25 M, Lab 15
Methyl orange solution, Labs 9C, 16A
Methyl red solution, Lab 16A
Nickel nitrate, Ni(NO₃)₂ · 6H₂O, 0.1 M, Lab 8
O₂ test tablets/color chart, Lab 12A
pH paper, Lab 12A
Phenolphthalein indicator paper, Labs 2B, 16B
Potassium hydroxide, KOH, 0.1 M, Labs 8, 16B
Potassium iodide, KI, 0.1 M, Lab 8
Potassium permanganate, KMnO₄, 0.01 M, Lab 17B
Potassium thiocyanate, KSCN, 0.25 M, Lab 15

Protein test strips, Lab 18B
Sodium oxalate, Na₂C₂O₄, 0.1 M, Lab 8
Sodium sulfate, Na₂SO₄, 0.1 M, Lab 8
Sodium thiosulfate, Na₂S₂O₃, 0.1 M, Lab 14
Thymol blue solution, Lab 16A
Zinc nitrate, Zn(NO₃)₂, 0.1 M, Lab 8

DRY CHEMICALS

Ammonium chloride, NH₄Cl, Lab 12B
Calcium Chloride, CaCl₂, Lab 4A, 13B
Copper II sulfate, CuSO₄, Lab 9B
Fertilizer, 10-10-10, Lab 12A
Magnesium sulfate, MgSO₄, Lab 9A
Magnesium dioxide, MnO₂, Lab JOB
Potassium chloride, KCl, Labs 4A, 15
Potassium sulfate, K₂SO₄, Lab 4A
Strontium chloride, SrCl₂, Lab 4A
Sodium sulfate, Na₂SO₄, Lab 4A



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Lab 1A	Apron, baking powder, biscuit cutter, butter, cookie sheets, cream of tartar, egg, flour, kitchen oven, knives or pastry blender, large bowls, milk, rolling pin, salt, shortening, spatula, sugar
Lab 1B	Digital camera, smart phone, or camcorder
Lab2A	Frying pan or skillet, hot plate or stove top, pot holder, shallow pan, table salt, tap water
Lab2B	Distilled water, matches, paper towel, table salt, transparent tape
Lab3A	Textbook
Lab3B	Calculator, nickels (11)
Lab4A	Colored pencils, fluorescent light, incandescent light, LED light, pie plate, table salt
Lab4B	Candy covered chocolates and candy covered chocolates with peanuts (50)
Lab 5	None
Lab 6	Acetone, aluminum foil, frying pan or skillet, hot plate or stove top, masking tape, salt, water
Lab 7	None
Lab 8	None
Lab9A	Distilled water, matches, paper towel, transparent tape
Lab9B	Frying pan or skillet, hot plate or stove top, pot holder, water
Lab9C	Baking soda, distilled water
Lab9D	Equipment determined by student, popcorn kernels
Lab 10A	Graph paper, ice cubes, pliers, spoon, transparent tape, vegetable oil, water
Lab 10B	Hydrogen peroxide, calculator, felt tip pen
Lab 10B Extension	Flour, local weather report, scissors, water
Lab 11A	Acetone, ethanol (denatured alcohol), food coloring, felt tip pen, masking tape, mineral oil, paper towel, pennies (4), stopwatch, water
Lab 11B	Computer with internet access
Lab 12A	Felt tip pen, masking tape, pan, paper towels, clear plastic wrap, pond water (dirty with algae), shallow plastic container, small pan, white paper
Lab 12B	Boiling water, ceramic coffee cup, distilled water, felt tip pen, masking tape, shallow bowl with ice if needed
Lab 13A	Hot tap water, ice cubes, paper towels, thread
Lab 13B	Baking soda, stopwatch, transparent tape, vinegar
Lab 14	Distilled water, graph paper, plain paper, stopwatch or a watch with a second hand
Lab 15	Felt tip pen, masking tape
Lab 16A	Distilled water, white vinegar

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Lab 16B	Distilled water, plain paper, white vinegar
Lab 17A	Transparent tape, white vinegar
Lab 17B	Baking soda, hydrogen peroxide, disposable plate, distilled water, graph paper
Lab 18A	Computer with internet access, felt tip pen, Jelly Bellies or other candies (orange, apple, pineapple, and apricot flavored), tablespoon, hot water, distilled water, baking soda, ethanol (denatured alcohol, available at Walmart or a drug store), white vinegar (5%)
Lab 18B	Egg white, fermented milk, fresh milk, water
Lab 19	Corn oil, felt tip pen, isopropyl (rubbing) alcohol (70%), lighter, masking tape, saturated salt water, tweezers
Lab20	Reference source, BJU web site

****Items not included in the individual labs will be noted by an asterisk.***