

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

Supplies Included

Alcohol burner stand, Lab 23A
Balloon, Lab 22A
Beads, red and white (100 of each color), Labs 2B, 9A Beaker, 250 mL (3), Labs 2A, 2B, 3B, 5B, 6A, 6B, 12A,
12B, 23B, 24A
Blank slides (3), Labs 5A, 6B, 12A, 13A, 13B
Cork, small, Lab 5A
Cotton ball (5), Lab 12B, 13A
Cotton swab, sterile (6), Labs 2A, 12A
Cover slips (box), Labs 5A, 6B, 12A, 13A, 13B
Craft stick, Lab 15A
Cup, plastic, 9 oz (6), Labs 3A, 3B, 5B, 6B, 7 A, 12B,
15A, 15B, 23B
Dialysis tubing (80 cm), Labs 5B, 23B
Digital scale, Labs 3B, 5B, 6B, 12B, 23A
Dissection kit, Labs 5A, 7A, 14B, 17A, 22A, 24B Dissection foam tray (2), Labs 17 A, 24B
Evaporating dish, Lab 23A
Gloves (2 pair), Lab 17A, 24B
Goggles, most labs
Graduated cylinder, 50 mL, Labs 2A, 2B, 5B, 6B, 7B,
12B, 15A, 23A, 23B
Graduated pipet (7), Labs 2B, 5B, 6A, 12B, 13A, 15A Hand lens,
Labs 13B, 14A, 14B
Lens paper, Lab 1 B
Nail, 1.5", Lab 2B
Nutrient agar, Labs 2A, 12A
Paper clips (2), Lab 23A
Paper sack (2), Lab 15B
Petri dish (4), Labs 2A, 12A, 17A
Plastic bags (7), (quart size [3] Labs 12A, 14A),
(snack size [3], Lab 7B)
Radish seeds, Lab 15B
Razor blade, single edge, Labs 5A, 13B, 14B Reaction plate, 24-well, Labs 2B, 23B
Rulers (2), Labs 12A, 12B, 22A
Stir rod, glass (2), Labs 6B, 12B, 23B, 24A
Sea salt (1/4 cup), Lab 15B
Straw, drinking, Lab 7A
Syringe (5 mL), Lab 7A
Tape measure, Lab 24A
Test tubes, 13 x 100 mm (9), Labs 2B,
15A, 23B
Test tube clamp, Labs 2B, 23B
Thermometer, Labs 2B, 7B, 23A
Thermometer strips (2), Lab 20A
Toothpicks (2), Labs 5A, 13A
Tubes, plastic tubes (4), Lab 12B
Tuning fork, Lab 24A
Vials, 15 mL (4), Lab 6A
Yeast (3), Labs 2B, 7B, 13A

CHEMICALS

Benedict's solution (9 mL), Labs 15A, 23B Biuret reagent, Lab 23B
Glycerin, Lab 13A
Iodine solution 2%, Labs 15A, 23B Methylene blue solution 1 %, Labs 5A, 6A, 6B, 12A, 13B Miracle-Gro™, Lab 12B
Mixed solutes: albumin, dextrose, sodium
chloride, starch, Lab 23B
Oil-eating bacteria powder, Lab] 2B Phenol red indicator, Lab 6B
Universal pH paper, Lab 2A, 2B, 12B

PREPARED SLIDES

Bone, c.s., Lab 20A
Horse ascaris, Lab 8A
Lily meiotic, Lab 8A
Paramecium, Lab 1 B

SPECIMENS

Crayfish, Lab 17 A
Rat, Lab 24B

GRAPHICS AND VISUALS

CD supplement, Labs 13A, 13B, 16A, 16B



WARNING! CHOKING HAZARD:

-Small parts. Not for children under 3 years.

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Supplies Needed

Lab 1A	Meter stick or yardstick
Lab 1B	Immersion oil (optional), microscope, tissue
Lab 2A	Disinfecting solution, flashlight or laser pointer, stopwatch, untreated water
Lab 2B	Crushed leaves, cooked and raw meat, cooked and raw potato, hydrogen peroxide (3%), pH solutions (see the lab), stopwatch
Lab 3A	Correction pen (Wite-Out®), live crickets, terrarium or large bucket
Lab 3B	Compost, distilled water, duckweed, wax pencil
Lab 4A	Camera (optional), field notebook, 100 ft tape measure or field tape or rope
Lab 4B	Calculator, flagging tape or stakes, field tape, range finder
Lab 5A	Cutting board, microscope, onion
Lab 5B	Distilled water, sugar for solution, timer, wax pencil
Lab 6A	Hay infusion (see Lab 13A), quart jar, water
Lab 6B	Blender, isopropyl alcohol, lentils, liquid dish soap, microscope, table salt, water
Lab 7A	Baking soda for solution, colored pencils, light source, measuring cup, spinach leaves, stopwatch
Lab 7B	Cornmeal, measuring spoons, permanent marker, table sugar, warm water, wood shavings or grass clippings
Lab 8A	Microscope
Lab 8B	None
Lab 9A	Small container
Lab 9B	None
Lab 10A	None
Lab 10B	Current issues of scientific periodicals or digital copies online
Lab 11A	Key for selected fishes of North America, found on page 143 of the BJU Press Lab Manual
Lab 11B	None
Lab 12A	Bacteria sample from cheek, hand sanitizer, hand soap, marker, microscope
Lab 12B	Cooking oil, milk of magnesia, paper, quart jar, wax pencil, white vinegar, water
Lab 13A	Aquarium air pump (optional), coffee cup, computer, microscope, milk, measuring teaspoon, ($\frac{1}{4}$), hay or grass for infusion, reference or key for protozoans, spoon for stirring, heat source (stove top, etc), quart jar, water (dechlorinated)
Lab 13B	Computer, immersion oil (optional)*, microscope, mushroom, living cultures see lab
Lab 14A	Camera (optional), field guide, garden gloves, garden shears, permanent marker, small notebook
Lab 14B	Fresh flower specimens, fresh fruit specimens, large kitchen knife, seed specimen
Lab 15A	Hot water bath, ripe banana puree, unripe banana puree

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Lab 15B	Distilled water, paper towel
Lab 16A	Computer
Lab 16B	Computer
Lab 17A	Camera, glue or rubber cement, permanent marker
Lab 17B	Live crickets
Lab 18A	Live fish, notebook, pencil
Lab 18B	Aquarium or large terrarium, leopard gecko or other small lizard, computer with internet access (optional)
Lab 19A	Birding app or field guide, camera (optional), notebook
Lab 19B	Dry food-2 types, live rodent, tea infusers (2), wood shavings, Y maze, computer with internet access (optional)
Lab 20A	Ice, soap and water, tape, towel
Lab 20B	None
Lab 21A	Microscope, human skeleton model (optional), skeleton diagram
Lab 21B	Hand gripper or tennis ball, plastic gallon jug of water, stopwatch
Lab22A	Stethoscope (optional), two helpers (optional)
Lab 22B	Digital pressure cuff (available for use at many pharmacies)
Lab 23A	Empty soda can or tin can, grill lighter, marshmallow, tongs or mitts, vegetable shortening
Lab 23B	Distilled water, hot water bath, multimeter
Lab 24A	Blindfold, hot water bath, ice water, ink pen (washable)
Lab 24B	Mounted rat skeleton, reference materials
Lab25A	Calculator, 4 different colored pencils
Lab 25B	None

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

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