

# Appendix IV: Supplies

## Supplies per class of 24 students (6 groups of 4)

Items Available Daily	
4 rolls	adhesive tape
6 sets	colored pencils
1	computer (for student presentations)
1	document camera (for presentations)
24	glue sticks
24	highlighters
6 sets	markers
24	pencils
24	scissors
1 set	speakers
12 pads	sticky notes
Other Items	
Varies	art supplies for decorating presentation boards (e.g., construction paper [small package], magazines for pictures, stickers)
1 box of 50	baggies, plastic
Amounts vary	beans, corn kernels, seeds, or beads for biodiversity bottles (13 types: ~150 pieces of 3 types and ~50 pieces of 10 types)
2 large bags	beans or corn kernels (~50 + 400 per pair of students)
~75–100	beetles: adult mealworm (preferred), mealworm larvae, isopods, or any non-threatening insect that moves at a measurable rate (purchase from science supply company or local pet store)
30	bottles, baby food jars, or small plastic water bottles (for <i>Biodiversity Activity</i> ; preparation directions in Unit 4)
6	bottles with lids, tall and clear, or jars or tennis ball containers
6	bowls, plastic or Styrofoam®
1 roll	butcher paper (portion of roll)
24	calculators (graphing calculators preferred)
2 large bags	candy (Skittles® or other multicolored, small candy); small bags for each student (optional)
24 sheets	cardstock paper
1	chalk, masking tape, or sticky notes (for marking floor grid)
2 pads	chart paper
1 pkg	construction paper (multicolored package, including black)
1	container for <i>Estimation Station</i> , clear (~1-quart size)
1 pkg of 150	cups, paper or plastic, 3–4 oz
2	craft sticks, or stirring rods
4	cylinders, tall, clear (e.g., plastic tennis ball cans or 250 mL graduated cylinders)

2 bags	Goldfish® or other small crackers, beans, or corn kernels (~100 per group)
1	graphing program, computer or calculator (for teacher)
5 mL	dish detergent, liquid
½ cup	dishwasher detergent, powdered, non-foaming (1 teaspoon per group)
~250 mL	electrolytic solution (e.g., Gatorade or salt water)
24	envelopes, letter size or small manila envelope
2 pkg of 100	index cards, 3" x 5"
1 pkg of 50	index cards, 5" x 7"
25 mL	lemon juice
6	manila folders (1 per company)
12	markers, permanent
6	markers, water-soluble
12	meter sticks
~4 grams	milk, powdered
3 sets of 12	objects, brightly colored (e.g., 3 sets of different colors of highlighters, pens, painted rocks, etc.)
1 ream	paper, white, 8 ½" x 11"
10 boxes of 100	paperclips, large
2–3 rolls	paper towels
~10	pipettes, small, plastic (or droppers)
10	poster boards, or chart paper
6	poster boards, chart paper, display boards, or butcher paper (or tri-fold presentation boards, if available) (1 per company)
12	rubber bands, medium size
12	rulers (inches and centimeters)
2 (1 is extra)	Secchi disks (construction directions in Appendix VI)
1 ½ L each	soil samples: sand, silt, clay, and loam (if available)
24	spoons, plastic, teaspoon size
~250 m	string, cotton or nylon
2 rolls	tape, masking or painter's tape
8 sheets	transparent page protectors
2 gallons	water, distilled
250 mL each	water samples for testing: tap water, distilled water, hard water (can be prepared by adding Epsom salts to tap water)
1 skein	yarn, or string

## Science Lab Supplies and Chemicals

5–6	Alka-Seltzer® tablets
24	aprons, lab (optional)
~25 mL	ammonia, 5%
~25 mL	ammonia solution, household, ~5%
2	beakers, 100 mL, or clear plastic cups, 4 oz

12	beakers, 250 mL, or clear plastic cups
1	beaker, 600 mL, or another container
6	balances, triple beam
2 mL	bromothymol blue solution (preparation directions in Unit 1)
1	candle, laboratory (~1" diameter)
2 (1 is extra)	conductivity tester (construction directions in Appendix VI) or multimeter
24	goggles, lab safety
6	graduated cylinders, 100 mL
Several of each item	example laboratory items for mealworm experiment (flashlights, heat lamps, ice, water)
1 vial	litmus paper, red (~40 strips)
1 vial	litmus paper, blue (~40 strips)
1 vial	pH papers (~50 strips)

### Items Provided by Teacher or Available in the Classroom

(marked with ★ in the curriculum)

1–3	ball, soft
1–2	balloon, fillable, any size
~50–60	cardboard pieces (10" x 10" pieces) for topographic map activity
18–20	carpet or cardboard squares, large enough for a person to stand on
24	cell phones (brought by students)
6	circular objects in and around classroom (clocks, trashcans, doorknobs, etc.) or from home (cans, bottles, etc.)
5–10	coins
12	computers or digital devices for internet research (phones or tablets provided by students—optional); with PowerPoint and Word programs; Adobe Flash version 9 or greater needed for <i>Ecological Footprint</i>
6 sets	example items for <i>Costa's Levels</i> activity, Unit 4 (photos, pens and pencils, rocks, leaves, miniature cars/trucks, test tubes with aqueous solutions)
Several of each item	example items for mealworm experiment (sand, cloth, sandpaper)
6	items to crush soil sample (e.g., hammer, metal lid, rock)
Few mL of each	liquids for pH demonstration (milk, vinegar, orange juice, baking soda)
1	music source
12	newspaper pages or large pieces of paper
12	non-standard measuring devices (e.g., shoe, hand, book) (can be provided by teacher or students)
1	printer (for presentation information)
Various amounts	prizes, candies, beverages, and snacks for presentation awards (optional)
Several	skit props (optional)
6	timing devices (e.g., timers, stopwatches, phone apps; can be provided by teacher or students)
1	whiteboard