Appendix IV: Supplies

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

Items Avai	Items Available Daily		
6 rolls	adhesive tape		
6 sets	colored pencils		
1	computer (for playing videos)		
1	document camera (optional for displaying notes or student work)		
24	glue sticks		
24	highlighters		
6 sets	markers		
24	pencils		
24	scissors		
1 set	speakers (for projecting audio during podcast videos)		
12 pads	sticky notes		
Other Item	IS		
200 g	alum		
1 roll	aluminum foil		
1 box of 50	baggies, plastic, gallon, freezer-type		
1 box of 50	baggies, plastic, quart, zipper-type (not slider-type), freezer-type		
50	balloons, medium size, ~12 inch		
12	bowls, Styrofoam [®] or plastic, small		
	butcher paper (optional if chart paper is used)		
1 head	cabbage, red (cooked to prepare indicator)		
24	calculators, 4-function		
1	candle (with holder)		
1 large bag	candy (Red Hots [®] , M&M's [®] , Skittles [®] , or similar)		
20 sheets	cardstock		
2 pads	chart paper (or butcher paper)		
1 can	Coca-Cola®		
1	cold pack		
1 pkg of 100	construction paper		
б	containers: basins, tubs, or pans (can use variety)		
2 pkg of 100	cotton balls		
1 box of ~60	craft sticks		
1 pkg of 50	cups, clear plastic, 4–6 oz		
2 pkg of 50	cups, clear plastic, 8–12 oz		
2–3	cups, Styrofoam®		
~250 mL	detergent, dry laundry-type		
~50 mL	detergent, dishwasher-type		



guide)
J

376

6	plates, plastic or aluminum
12–15	pushpins
2–3 m	rope
30	rubber bands, small
24	rulers
3 L	sand
1 3-lb can	shortening
2	Slinky [®] spring toys
6	sponges, dry (all one size and type)
6	spoons, plastic
200–300	stickers (for awards/prizes)
30	straws, plastic (not flexible straws) or stirring sticks
1 ball	string, cotton or nylon
1	Super Glue [®] (optional)
24	teaspoons
6	tablespoons
1 roll	tape, duct
2 rolls	tape, masking
2 rolls	tape, vinyl or strapping
~50 mL	vegetable oil
~30	weighing paper or wax paper squares, ~ 3" x 3"
4 L	water sample, "dirty" (made with dirt or mud)
2 L	water sample, "polluted" (made with dirty water, bits of grass and leaves, small amount of cooking oil, fruit peelings, egg shells, insoluble spices, food coloring, etc.)
1	world wall map
~100 mL	yeast, dry, powder
	Supplies and Chemicals sems will typically be available in the school science lab.
500 mL	ammonia solution, 5%
24	aprons, lab
500 g	baking soda
3–4	balances, triple-beam
6	beakers, 50 mL (or plastic cups)
12	beakers, 250 mL (or plastic cups)
18	beakers, 400 mL (or large plastic/paper cups)
1	beaker, 1,000 mL (to cook cabbage)
50 g	Borax powder
250 g	calcium chloride (or DampRid®, available at grocery or hardware stores)
1	diffraction grating (optional)
6	funnels
25	goggles, for lab safety (including 1 set for teacher)
12	graduated cylinders, 10 mL
8	graduated cylinders, 25 or 50 mL
Proven Achievement, Lifelong Advantage,	APPENDICES



377

6	avaduated culindeva 100 ml
6	graduated cylinders, 100 mL
2	heat lamps (optional)
1	hot plate
500 mL	hydrogen peroxide, 3%
1–2	mallets, rubber tuning fork
10 mL	sodium hydroxide (NaOH), 0.1 M solution
few mL	phenolphthalein indicator
60	test tubes
6	test tube racks (or use beakers or cans)
12	thermometers, glass or metal-backed
2	tuning forks, different frequencies
500 mL	vinegar, 5%
2 gallons	water, distilled
	water (from tap; used in various activities)
	vided by Teacher or Available in the Classroom
1–3	ball, soft (or other soft items for tossing)
1-2	bicycle pump (or small air compressor)
6	bottles, 2-liter plastic (for <i>Water Purification</i> activity; supplied by teacher)
24	bottles, 2-liter plastic (for constructing bottle rockets; supplied by students)
12	cardboard pieces or clipboards (for <i>Droplet Race</i> activity)
at least 12	cell phones (brought by students)
	celebration supplies (for celebrating last day of program)
	cloth towels (for absorbing water during rocket launch)
at least 6	glass jars or tin cans, medium size
	items for <i>Insulation Design Challenge</i> (e.g., newspaper, aluminum foil, Styrofoam [®] , construction paper, cloth)
1	lab coat (optional for teacher)
1	LCD projector or flashlight (optional)
several	magazines (for students to cut out pictures)
1	music source
	materials for rocket construction (suggested: Styrofoam [®] pieces, poster board, cardboard, cardstock, duct tape, aluminum foil, modeling clay, Super Glue [®] or project glue, construction paper; and magazine pictures, stickers, or hand-drawn pictures for decoration)
1 bottle	nail polish, clear (for painting pennies in Investigating the Properties of Water activity)
6 sets	observation items, photos, or pictures (e.g., rocks, leaves, miniature vehicles; 5 per set)
~200	pennies
	rocket launcher (supplies and construction directions are listed in Appendix VI)
	snacks and drinks (optional; if allowed by school/district; for celebrating last day of program)
18	timing devices (e.g., timers, stopwatches, phone apps; can be provided by teacher or students)
1–2	trash bag



378