

FOSS NG Teacher-supplied Materials Grade 7		
Type	Material Needed	
Chemical Interactions		
Technology Equipment	<ul style="list-style-type: none"> • Computers with Internet access 1 Document camera 1 Projection system 	
Measuring Tools	<ul style="list-style-type: none"> 1–2 Balances, electronic (0.1 g accuracy) 1 Clock 1 Ruler 8 Stopwatches (optional) 	
Paper	<ul style="list-style-type: none"> • Black construction paper (optional) • Cardboard (optional) • Chart paper • Index cards (optional) • Paper towels • Science notebooks (composition books) • Scratch paper • White paper, 22 x 28 cm (8.5" x 11") 	
Supplies	<ul style="list-style-type: none"> • Bottles, plastic, 2 L 1 Candy-coated chocolate pieces, 1 lb. bag • Consumer-product packages • Dishwashing detergent, liquid, 25 mL • Glue sticks • Glycerin, a few mL (optional) • Ice • Margarine, 1/4 lb. stick (not tub) • Matches, wooden safety 	<ul style="list-style-type: none"> • Plastic bags, large, sturdy 1 Plastic bag, small (optional) • Recycled materials to use for insulation 16 Sheet protectors, clear-plastic (optional) • Sucrose (granulated sugar), 1 lb. • Vinegar 16 Water bottles, clear-plastic, recycled, with screw cap, 1/2 L

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Other Tools	<ul style="list-style-type: none"> • Basins 1 Beaker, 1 L • Buckets or gallon jugs 16 Calculators (optional) 1 Coffee urn or coffeepot, or other means of heating water in large quantities • Colored pencils, marking pens, and highlighters 1 Cooler or ice chest 1 Cube, cm³ 1 Fork, metal 1 Hot plate 1 Large knife 1 Marking pen, permanent 	<ul style="list-style-type: none"> 8–16 Marking pens, whiteboard (optional) 1 Match-striking surface 8–16 Mini-whiteboards (optional) 1 Paper cutter (optional) 32 Pens, fine-tipped • Pitchers • Pushpins (optional) 32 Safety goggles 8 Scissors 1 Sponge (optional) • Trays, cafeteria 1 Two-by-four lumber, 60 cm long 1 Washcloth

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Type	Material Needed	
Earth History		
Technology Equipment	<ul style="list-style-type: none"> • Computers with Internet access • Google Earth™ 1 Document camera or overhead projector (optional) 1 Projection system 1 Webcam/laptop camera (optional)	
Measuring Tools	1 Beaker, 1 L 1 Clock or timer 1 Graduated cylinder 16 Meter tapes 16 Rulers, clear-plastic, metric (optional) 16 Thermometers	
Paper	<ul style="list-style-type: none"> • Chart paper • Index cards (optional) • Newspapers • Paper towels • Science notebooks (composition books) • Self-stick notes • White paper, 22 x 28 cm (8.5" x 11") 	
Resources	8 Aerial photos of collection site <ul style="list-style-type: none"> • Earth materials 1 Map of southwest United States or Arizona (optional) 1 Map of your state or region (optional) 1 Rock (any) 1 Rock, cobble-sized (optional) <ul style="list-style-type: none"> • Gravel (optional) 	

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Supplies	<ul style="list-style-type: none"> • Books or boxes 1 Bottle, glass, narrow mouth, tight cap 2–3 Bottles, plastic, 1–2 L • Candy-coated chocolate, at least two different colors • Cotton swabs • Cups, plastic foam (optional) • Distilled water, 2 L • Food coloring • Glue sticks • Ice 	<ul style="list-style-type: none"> 16 Microscope slides (optional) 1 Plastic sheet or trash bag (optional) 8 Plastic spoons • Straws 10 Transparencies (optional) • Transparent tape • Tweezers (optional) • Vinegar, 240 mL (8 oz.) 1 Zip bag, sturdy
Other Tools	<ul style="list-style-type: none"> 1 Air pump (optional) 16 Calculators (optional) 32 Clipboards (optional) • Colored pencils, marking pens, or highlighters • Dissecting microscopes 10–30X (optional) 1 Freezer 1 Funner (optional) 1 Gloves, rubber (optional) 1 Gloves, sturdy 1 Hole punch (optional) 	<ul style="list-style-type: none"> 1 Jar, with lid, 2 L 2 Jugs, plastic, 4 L 1 Marking pen, permanent 8 Marking pens, whiteboard (optional) 1 Nail, small, or pencil compass 32 Safety goggles 32 Scissors 8 Soil augers or hand trowels (optional) 1 Spoon, plastic (optional) 1 Stirring rod

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Type	Material Needed	
Populations and Ecosystems		
Technology Equipment	<ul style="list-style-type: none"> • Computers with Internet access 1 Digital camera (optional) 1 DVD player and monitor 1 Projection system 	
Measuring Tools	<ul style="list-style-type: none"> 1 Meter stick or meter tape 1 Metric ruler, 2.5 cm wide 1 Timer or stopwatch 	
Paper	<ul style="list-style-type: none"> • Cardboard pieces, various sizes • Chart paper • Science notebooks (composition books) • File folders • Large paper, such as construction (optional) • Newspaper • Paper towels • Poster boards (optional) • Scratch paper • Self-stick notes • White paper 	
Resources	<ul style="list-style-type: none"> • Field guides (optional) • Reference materials on ecosystems (optional) 	

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Type	Material Needed	
Supplies	2 Cardboard boxes, large (optional) <ul style="list-style-type: none"> • Cheese balls or snack food 32 Clipboards (optional) 1 Clothesline, string (optional) <ul style="list-style-type: none"> • Glue sticks • Ground litter (dried leaves and twigs) • Kitchen scraps <ul style="list-style-type: none"> • Carrots • Fruit • Lettuce • Masking tape, regular width • Masking tape, 2.5 cm wide (optional) 	<ul style="list-style-type: none"> • Mini marshmallows, 1 L • Popped popcorn or dry macaroni, 4–5 L • Rocks • Safety matches, wooden • Soil, garden or potting, 0.5–1 L (if more is needed) • String or yarn • Transparent tape (optional)
Other Tools	1 Aquarium, 10 L or larger (optional) 8 Calculators (optional) 1 Coat hanger, wire (optional) <ul style="list-style-type: none"> • Containers (e.g., trays, boxes, buckets) • Colored pencils, marking pens, and highlighters 1 Fork (optional) <ul style="list-style-type: none"> • Jugs, gallon 1 Lamp with incandescent bulb (optional) <ul style="list-style-type: none"> • Microscopes, dissecting (optional) 8 Mini-whiteboards (optional) 1 Paper cutter (optional) 8 Permanent marking pens 2 Pitchers 1 Rack (optional)	32 Safety goggles 32 Scissors 2 Shelters (plastic cups or flowerpots) 4 Sports cones (optional) 1 Tin snips or old scissors 10 Trays, small (optional) 1 Utility knife 1 Whistle (optional) 8 Whiteboard erasers (optional) 8 Whiteboard marking pens (optional)

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Type	Material Needed	
Organisms	50 Aquatic snails • Duckweed, 2 oz. jar 50 Earthworms 36 Elodea sprigs 26 Guppies 50 Isopods 24 Landsnails (optional) 30 Milkweed bugs (15 females and 15 males) 150 Redworms 50 Scuds (<i>Gammarus</i> sp.) • Tubifex worms, 1/2 oz. jar (optional)	Obtain land snails locally.