

FOSS NG Teacher-supplied Materials Grade 2		
Investigation	Material Needed	Comments
Insects and Plants		
All Investigations	<ul style="list-style-type: none"> • Chart paper and marking pen • Drawing utensils (pencils, crayons, colored pencils, marking pens) • Dry-erase pen, regular and fine tip • Glue sticks 1 Overhead-transparency pen 1 Projection system • Science notebooks (composition notebooks) 32 Scissors • Transparent tape 	
Outdoor Investigations	<ul style="list-style-type: none"> 1 Bag for carrying materials 1 Camera (optional) 1 Whistle or bell 	
Investigation 1: Mealworms	<ul style="list-style-type: none"> • Apple, sweet potato, carrot, or potato 8 Small boxes or berry baskets (optional) 200 Mealworms 1 Paring knife • Wheat bran 	
Investigation 2: Brassica Seeds	<ul style="list-style-type: none"> 1 Computer with Internet access • Extension cord (optional) • Graph paper (optional) 8–16 Marigold seedlings 1 Marking pen, permanent (optional) • Newspaper • Paper towels 2–4 Pitchers or recycled soft-drink bottles (2 L) or gallon jugs 1–2 Planter pots (optional) 1 Plastic bag, about 4 L 1 Potting soil, 4 L (4 qt.) • Rulers • String (optional) • Water 	

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Investigation 3: Milkweed Bugs	75 Milkweed bug eggs <ul style="list-style-type: none"> • Paper, light-colored (optional) 8 Paper clips, jumbo <ul style="list-style-type: none"> • Paper towels 1 Pitcher or recycled soft-drink bottle, 2 L <ul style="list-style-type: none"> • String (optional) • Water 1 White paper, large sheet 8 White paper, recycled, 8.5" x 11" (optional)	
Investigation 4: Silkworms	1 Flat box or lid, large 8 Card stock pieces, 8.5" x 11" (optional) 1 Corrugated box or clear plastic box, medium-sized 2 Egg cartons, paper 1 Leaf, damaged by insect <ul style="list-style-type: none"> • Mulberry leaves 1 Paper towel 1 Plastic bag to fit over shoe box 1 Shoe box or other small cardboard box 50 Silkworm eggs 2 White paper, large sheets	

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Investigation 5: Butterflies	1 Camera (optional) 1 Computer with Internet access 2 Construction paper pieces, 1 red or orange and 1 any color 1 Flower 1 Mallow plant or fresh mallow leaves (optional) 1 Marking pen, permanent 1 Measuring spoon, 1.25 mL (1/4 tsp.) <ul style="list-style-type: none"> • Microscopes (optional) 1 Orange, fresh (optional) 5–10 Painted lady butterfly larvae in medium <ul style="list-style-type: none"> • Paper towels 1 Paring knife (optional) 1 Projection system 8 Scratch paper, quarter sheets <ul style="list-style-type: none"> • Sugar • Water 	

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Pebbles, Sand, and Silt		
All Investigations	<ul style="list-style-type: none"> • Chart paper and marking pen • Drawing utensils (pencils, crayons, colored pencils, marking pens) • Glue sticks • Paper towels and/or sponges 1 Projection system or document camera (optional) • Science notebooks (composition books) • Water 	
Outdoor Investigations	<ul style="list-style-type: none"> 1 Bag for carrying materials 32 Clipboards • Containers for water (plastic gallon jugs, 2 L soft-drink bottles) • Pencils 1 Whistle or bell 	
Investigation 1: First Rocks	<ul style="list-style-type: none"> • Egg cartons (optional) 16 Pieces of white paper 	
Investigation 2: River Rocks	<ul style="list-style-type: none"> 1 Large knife 32 Sheet protectors, clear (optional) • Transparent tape 	

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Investigation 3: Using Rocks	<ul style="list-style-type: none"> • Clear acrylic spray (optional) 1 Brick 1 Bucket 1 Camera (optional) • Clay soil, 8 L 1 Container or jar with lid, 1 L • Containers for water 1 Box of cornstarch, 454 g (1 lb.) • White glue • Dry grass, straw, or weeds 1 Large knife • Newspaper 32 Paint brushes • Poster paints 1 Sandstone piece, landscaping (optional) 1 Saucepan 1 Scissors • Scratch paper 1 Mixing spoon 1 Plastic tablecloth or place mats (optional) • Tempera paints 1 Old hand towel (optional) 1 Trowel or shovel 16 Pieces of white paper • Yarn, 25 yards 	
Investigation 4: Soil and Water	<ul style="list-style-type: none"> 1 Bucket • Scratch paper • Transparent tape • White paper (optional) 	

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Solids and Liquids		
All Investigations	<ul style="list-style-type: none"> • Chart paper and marking pen • Computer with Internet access • Drawing utensils (pencils, crayons, colored pencils, marking pens) • Glue sticks • Projection system • Science notebooks (composition books) 	
Outdoor Investigations	1 Bag for carrying materials 32 Bottles, drinking-water, plastic, with caps, recycled, 1/2 L 32 Clipboards <ul style="list-style-type: none"> • Containers for water (plastic gallon jug, 2 L soft-drink bottles, bucket) • Newspapers • Pencils 1 Whistle or bell	
Investigation 1: Solids	1 Camera 1 Fan, portable with a low setting <ul style="list-style-type: none"> • Pieces of cardboard, lightweight (optional) 1 Paper bag or box 1 Rock, wood block, or other solid object <ul style="list-style-type: none"> • Scissors 1 Twig <ul style="list-style-type: none"> • Water 	

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Investigation 2: Liquids	5 Books (large) or pieces of cardboard 2 Bottles, drinking-water, plastic, with caps, recycled, 1/2 L <ul style="list-style-type: none"> • Chart paper for collages (optional) • Cooking oil, 1/2 L (1 pt.) • Corn syrup, clear, colorless, 1/2 L (1 pt.) • Liquid dish soap (detergent), blue or green, 1/2 L (1 pt.) • Liquid fabric softener or starch, 1/2 L (1 pt.) • Liquid hand soap, white, 1/2 L (1 pt.) • Magazines (optional) • Paper towels 32 Scissors <ul style="list-style-type: none"> • Tape, transparent • Water 	The sets of liquids can be made somewhat permanent in the kit by hot gluing the lids sealed. Cooking oil will need to be replaced periodically as it goes rancid.
Investigation 3: Bits and Pieces	1 15-bean soup mix (optional) 5 Books (large) or pieces of cardboard 32 Bottles, drinking-water, plastic, with caps, recycled, 1/2 L 1 Broom and dustpan <ul style="list-style-type: none"> • Construction paper (optional) • Glue (optional) 1 Scissors (optional) <ul style="list-style-type: none"> • Water 	

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Investigation 4: Solids, Liquids, and Water	1 Bottle, plastic, 4 L (1 gal.), (optional) 6 Chalk pieces 10 Chocolate chips 6 Cookies (small) <ul style="list-style-type: none"> • Cooking oil, about 250 mL (8.5 oz.) • Corn syrup, about 250 mL (8.5 oz.) 1 Freezer 1 Glass (optional) 10 Ice cubes (small) or chunks <ul style="list-style-type: none"> • Liquid dish soap, about 250 mL (8.5 oz.) • Liquid fabric softener or starch, about 250 mL (8.5 oz.) • Liquid hand soap, about 250 mL (8.5 oz.) • Margarine, stick, 15 mL, (1 Tbsp.) • Paper towels • Raisins (6 spoonfuls) • Scissors • Scratch paper • Tape, transparent 1 Tea bag (optional) <ul style="list-style-type: none"> • Vacuum bottles or insulated chest • Water (room temperature and hot water) 1 Writing paper, sheet	