

FOSS NG Teacher-supplied Materials Grade 5

Investigation	Material Needed	Comments
Earth and Sun		
All Investigations	<ul style="list-style-type: none"> • Chart paper and marking pen 1 Computer with Internet access • Drawing utensils (pencils, crayons, colored pencils, marking pens) 1 Extension cord (optional) • Glue sticks 1 Projection system • Science notebooks (composition books) 32 Scissors • Self-stick notes (for review sessions) 	
Outdoor Investigations	<ul style="list-style-type: none"> 1 bag for carrying materials • Pencils 	
Investigation 1: The Sun	<ul style="list-style-type: none"> 1 Clock or watch 1 Earth globe, > 23 cm diameter, with stand 1 File or small knife • Painter's tape 1 Rolling cart (optional) 1 Ruler • Scratch paper 16 Straightedges or rulers • White glue 1 Piece of white paper 	
Investigation 2: Planetary Systems	<ul style="list-style-type: none"> 8–16 Calculators (optional) 1 Earth globe, > 23 cm diameter, with stand 	
Investigation 3: Earth's Atmosphere	<ul style="list-style-type: none"> 1 Local weather report 1 Metal fork 	

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Investigation	Material Needed	Comments
Investigation 4: Heating Earth	1 Clock or watch 2 Insulated coolers (optional) 1–2 Infrared heat lamps, 250 watt (optional) 1 Hote pot or hot plate (optional) 1–2 Lamps, clip-on, with ceramic sockets (optional) <ul style="list-style-type: none"> • Paper or cloth towels 1 Penny 8 Stopwatches (optional) 16 Pieces of white paper 1 Bottle, 1 L (optional) 1 Watch or stopwatch	
Investigation 5: Water Planet	1 Insulated cooler (optional) <ul style="list-style-type: none"> • Frozen objects such as containers of water, metal objects, small bags of sand (optional) • Hand lenses (optional) • Crushed ice, 1–1.5 L • Ice cubes, 12–15 or more 1 Flat mallet, wooden spoon, rolling pin, or muddler <ul style="list-style-type: none"> • Paper towels (optional) 1 Plastic bag, sturdy, 4 L 1 Small cloth towel <ul style="list-style-type: none"> • Soft-drink cans, empty, recycled (optional) 	

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Investigation	Material Needed	Comments
Living Systems		
All Investigations	<ul style="list-style-type: none"> • Chart paper and marking pen • Computer with Internet access • Drawing utensils (pencils, colored pencils, marking pens) • Glue sticks 1 Projection system • Science notebooks (composition books) 8 Scissors • Self-stick notes (for review sessions) 	
Outdoor Investigations	<ul style="list-style-type: none"> 1 bag for carrying materials • Camera (optional) 	
Investigation 1: Systems	<ul style="list-style-type: none"> 1 Crate or carton, about 30 x 50 cm 8 Marking pens • Natural ground litter • Newspaper • Organic kitchen waste 1 Paper cutter 1 Piece of luggage 8 Pieces of recycled paper 150 Redworms (compost worms) • Soil from a garden 	Obtain redworms locally if possible.
Investigation 2: Nutrient Systems	<ul style="list-style-type: none"> 1 Box of animal crackers 4 Bottles, soft-drink, empty, 2 L 1 Construction paper piece, red or orange • Flour, cup, 236 mL (1 cup) 1 Hole punch 1 Ice chest or hote plate/large coffee urn • Mallow leaves, fresh (optional) • Measuring spoon, 1.25 mL (1/4 tsp) • Orange, fresh (optional) 5–10 Painted lady butterfly larvae • Paper towels 1 Paring knife (optional) • Potting soil, about 16 L • Sugar, 350 mL (about 1.5 cups) Water, hot, 40–50°C 	

FOSS Next Generation

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Investigation	Material Needed	Comments
Investigation 3: Transport Systems	<ul style="list-style-type: none"> • Bleach, household, 15–30 mL • Blue food coloring • Detergent • Leaves (optional) • Masking tape • Paper towels, very absorbent • Paper towels, ordinary • Transparent tape 	
Investigation 4: Sensory Systems	16 Half sheets of paper (optional) 1 Hole punch <ul style="list-style-type: none"> • Paper towels 16 Pieces of scratch paper <ul style="list-style-type: none"> • Transparent tape 	

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Investigation	Material Needed	Comments
Mixtures and Solutions		
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 • Projection system • Safety goggles • Science notebooks (composition books) • Self-stick notes (for review sessions) • Water 	
Outdoor Investigations	1 Bag for carrying materials 16 Bottles, drinking-water, plastic, recycled, 1/2 L 32 Clipborads or cardboard pieces with binder clips <ul style="list-style-type: none"> • Containers for water (plastic gallon jugs or 2 L soft-drink bottles with caps) 	
Investigation 1: Separating Mixtures	<ul style="list-style-type: none"> • Microscopes, low power (optional) • Paper towels • Scratch paper • Tape, transparent 	
Investigation 2: Developing Models	8–10 Chocolate chips <ul style="list-style-type: none"> • Margarine, stick, refrigerated • Masking tape • Water, hot, 60°C 1 Vacuum bottle, coffeepot, or hot pot	
Investigation 3: Concentration	4 Bottles, 1 L 1 Container of sugar-sweetened soft-drink powder 65 Cups, paper, 170 mL (3 oz.) <ul style="list-style-type: none"> • Paper towels 1 Pen, marking, permanent 1 Scissors <ul style="list-style-type: none"> • Scratch paper, white 1 Spoon, stirring, large <ul style="list-style-type: none"> • Tape, transparent 	

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Investigation	Material Needed	Comments
Investigation 4: Reaching Saturation	1 Bucket (optional) • Paper towels • Scratch paper • Tape, transparent	
Investigation 5: Fizz Quiz	1 Bucket (optional) 8 Paper, pieces white • Paper towels • Scratch paper • Tape, transparent • Vinegar, white, 500 mL (2 cups)	