

<b>FOSS NG Teacher-supplied Materials Grade 8</b>	
Type	Material Needed
<b>Electromagnetic Force</b>	
Technology Equipment	<ul style="list-style-type: none"> <li>• Computers with Internet access</li> <li>1 Document camera or overhead projector</li> <li>1 Projection system</li> <li>• Extension cords with multiple outlets (optional)</li> </ul>
Measuring Tools	<ul style="list-style-type: none"> <li>1 Ruler or measuring tape, metric</li> <li>1 Teaspoon, 1/4</li> </ul>
Paper	<ul style="list-style-type: none"> <li>• Chart paper</li> <li>• Index cards (optional)</li> <li>• Science notebooks (composition books)</li> <li>• Self-stick notes</li> <li>• White paper, 22 x 28 cm (8.5" x 11")</li> </ul>
Supplies	<ul style="list-style-type: none"> <li>1 Bag, paper or plastic (optional)</li> <li>• Friction test surfaces (newspaper, blanket, sandpaper, etc.)</li> <li>1–2 Incandescent lightbulbs (optional)</li> <li>2 Nails, 5 cm or longer</li> <li>1 Rolling cart, rolling chari, or small desk</li> <li>• Talc or flour (optional)</li> </ul>
Other Tools	<ul style="list-style-type: none"> <li>• Colored pencils, marking pens, and highlighters</li> <li>1 Craft knife (optional)</li> <li>1 Craft stick (optional)</li> <li>1 Lamp (optional)</li> <li>32 Mini-whiteboards (optional)</li> <li>32 Scissors</li> <li>1 Screwdriver, approximately 3 mm blade</li> <li>8 Whiteboard erasers (optional)</li> <li>8 Whiteboard marking pens (optional)</li> <li>1 Work gloves</li> </ul>

<b>FOSS NG Teacher-supplied Materials Grade 8</b>	
Type	Material Needed
<b>Gravity and Kinetic Energy</b>	
Technology Equipment	<ul style="list-style-type: none"> <li>• Computers with Internet access</li> <li>1 Document camera or overhead projector</li> <li>• Extension cords with multiple outlets (optional)</li> <li>1 Projection system</li> <li>1 Video recording device (optional)</li> </ul>
Measuring Tools	1 Meter stick
Paper	<ul style="list-style-type: none"> <li>• Chart paper</li> <li>10 Envelopes</li> <li>2 File folders</li> <li>• Science notebooks (composition books)</li> <li>• Self-stick notes</li> <li>• White paper, 22 x 28 cm (8.5" x 11")</li> </ul>
Supplies	<ul style="list-style-type: none"> <li>• Crash protection materials (bubble wrap, newspaper, etc.)</li> <li>1 Feather</li> <li>4 Tent stakes (optional)</li> <li>4 Traffic cones (optional)</li> <li>• Transparent tape</li> <li>1 Tray</li> </ul>
Other Tools	<ul style="list-style-type: none"> <li>1 Broom</li> <li>8 Calculators</li> <li>8 Erasers, whiteboard (optional)</li> <li>1 Hammer</li> <li>• Marking pens and highlighters</li> <li>8 Marking pens, whiteboard (optional)</li> <li>8 Mini-whiteboards (optional)</li> <li>1 Paper cutter (optional)</li> <li>1 Punch, one-hole</li> <li>32 Scissors</li> <li>1 Stepladder or chair</li> </ul>

<b>FOSS NG Teacher-supplied Materials Grade 8</b>	
<b>Type</b>	<b>Material Needed</b>
<b>Heredity and Adaptation</b>	
Technology Equipment	<ul style="list-style-type: none"> <li>• Computers with Internet access</li> <li>1 Document camera</li> <li>1 Projection system</li> </ul>
Measuring Tools	1 Meter stick
Paper	<ul style="list-style-type: none"> <li>• Chart paper</li> <li>1 Manila folder</li> <li>• Science notebooks (composition books)</li> <li>• Scratch paper</li> <li>• White paper, 22 x 28 cm (8.5" x 11")</li> </ul>
Supplies	<ul style="list-style-type: none"> <li>• Gloves, latex or other material (optional)</li> <li>• Glue sticks (optional)</li> <li>32 Sheet protectors, plastic (optional)</li> <li>• Paper towels</li> <li>• Transparent tape</li> <li>• White glue (optional)</li> </ul>
Other Tools	<ul style="list-style-type: none"> <li>• Colored pencils, marking pens, and highlighters</li> <li>8 Erasers, whiteboard (optional)</li> <li>8 Marking pens, whiteboard (optional)</li> <li>8 Mini-whiteboards (optional)</li> <li>16 Mirrors (optional)</li> <li>8 Water misters (optional)</li> </ul>

<b>FOSS NG Teacher-supplied Materials Grade 8</b>	
Type	Material Needed
<b>Planetary Science</b>	
Technology Equipment	1 Computer with Internet connection <ul style="list-style-type: none"> <li>• Google Earth™</li> </ul> 1 Light sensor (optional, see Investigation 9, Part 2) 1 Projection system
Measuring Tools	1–2 Balances, electronic (0.1 g accuracy) 32 Calculators 1 Meter stick 32 Rulers
Paper	8 Cardboard pieces, 10 x 20 cm (4" x 8") <ul style="list-style-type: none"> <li>• Chart paper</li> </ul> 2 Pieces of construction paper, 1 white, 1 other color (optional) <ul style="list-style-type: none"> <li>• Index cards (optional)</li> <li>• Newspaper</li> <li>• Paper towels</li> </ul> 1 Piece of poster board, 35 x 50 cm (14" x 20") <ul style="list-style-type: none"> <li>• Science notebooks (composition books)</li> <li>• Self-stick notes</li> <li>• Tagboard (optional)</li> <li>• White paper, 22 x 28 cm (8.5" x 11")</li> </ul>
Resources	<ul style="list-style-type: none"> <li>• Aerial photographs of your community (optional)</li> </ul> 1 Large ball (e.g., soccer, basketball) 1 Cart, AV (optional) 1 Earth globe on a stand, 23–30 cm in diameter

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Supplies	<ul style="list-style-type: none"> <li>• Aluminum foil (narrow roll) or toilet tissue</li> <li>8 Brass fasteners (optional)</li> <li>• Cocoa powder, about 1 lb. per class</li> <li>• Colored pencils, marking pens, and highlighters</li> <li>1 Dime</li> <li>• Flour, 20 lb.</li> <li>• Glue sticks</li> <li>1 Marking pen, wet-erase, fine-tipped, colored</li> <li>1 Marking pen, wet-erase, black or blue</li> <li>• Marking pens, whiteboard</li> <li>• Masking tape, 2.5 cm wide</li> <li>1 Quarter</li> <li>2 Rubber bands, stout</li> <li>10 Sticky dots, colorful, 13 mm</li> <li>• String, 4 m</li> <li>• Super glue (optional)</li> <li>2 Transparencies (optional)</li> <li>• Water</li> </ul>
Other Tools	<ul style="list-style-type: none"> <li>• Binoculars, spotting scope, or telescope (optional)</li> <li>32 Calculators</li> <li>8 Compasses, pencil (optional)</li> <li>1 Extension cord (optional)</li> <li>• Fluorescent ceiling lights or lamp</li> <li>1 Hobby or craft knife</li> <li>1 Knife or nail file</li> <li>1 Additional light source (optional)</li> <li>1 Oven mitt or towel</li> <li>1 Overhead projector or other strong light source</li> <li>16 Scissors</li> <li>• Shim (tapered piece of wood, metal, or stone; optional)</li> </ul>

<b>FOSS NG Teacher-supplied Materials Grade 8</b>	
<b>Type</b>	<b>Material Needed</b>
<b>Waves</b>	
Technology Equipment	1 AM/FM radio (optional) <ul style="list-style-type: none"> <li>• Computers with Internet access</li> </ul> 1 Document camera or overhead projector <ul style="list-style-type: none"> <li>• Extension cords with multiple outlets (optional)</li> </ul> 1 Projections system
Measuring Tools	8 Timers
Paper	<ul style="list-style-type: none"> <li>• Chart paper</li> <li>• Science notebooks (composition books)</li> <li>• White paper, 22 x 28 cm (8.5" x 11")</li> </ul>
Supplies	<ul style="list-style-type: none"> <li>• Glue sticks</li> <li>• Insulating materials (packing materials, cloth, etc.)</li> <li>• Milk, 30 mL per class</li> <li>• Mini-whiteboards</li> <li>8 Sheet protectors, clear-plastic (optional)</li> <li>• Pitcher</li> <li>• Shoe boxes</li> <li>• Water</li> </ul>
Other Tools	32 Calculators (optional) <ul style="list-style-type: none"> <li>• Colored pencils, marking pens, and highlighters</li> <li>• Musical instruments or noisemakers (optional)</li> </ul> 1 Safety pin, large 32 Scissors 1 Scissors, sharp 8 Twist ties 8 Zip bags, 1 L or larger (optional)