

## 2nd grade - \*included in kit\*

<p><b>Week 1</b></p>	<ul style="list-style-type: none"> <li>● Protective science gear and science and engineering tools your students will use this year, which could include:</li> <li>● *Magnifying glasses*</li> <li>● *Thermometers*</li> <li>● *Rulers*</li> <li>● Safety goggles/gloves</li> <li>● Lab coats/smocks</li> <li>● Cups/bins of soil</li> <li>● Plastic tubs</li> <li>● *Cotton swabs*</li> <li>● Hot plate</li> <li>● *Stopwatches*</li> <li>● Tape: clear, masking, and duct</li> </ul>	<ul style="list-style-type: none"> <li>● Paper: construction, cardstock, wax, and tissue</li> <li>● Cardboard</li> <li>● *Toothpicks*</li> <li>● *Popsicle sticks*</li> <li>● Aluminum foil</li> <li>● Glue: hot, liquid, and gluesticks</li> <li>● *Felt* and fabric squares/pieces</li> <li>● Velcro</li> <li>● Small rocks, soil, and sand</li> <li>● *Play dough/clay*</li> <li>● Paint</li> <li>● *Food coloring*</li> </ul>
<p><b>Week 2</b></p>	<ul style="list-style-type: none"> <li>● Teacher-made obstacle course</li> <li>● Plastic containers</li> <li>● Art supplies</li> <li>● Sentence strips</li> <li>● Markers</li> </ul>	<ul style="list-style-type: none"> <li>● Masking tape</li> <li>● 1 box, wrapped 508 times with wrapping paper or butcher paper and tape, with candy or prizes inside</li> <li>● Student-gathered leaves</li> </ul>
<p><b>Week 3</b></p>	<ul style="list-style-type: none"> <li>● *Plastic building blocks with six colors*</li> <li>● Mini marshmallows</li> <li>● *Toothpicks*</li> <li>● *Stop watches*</li> <li>● Plastic containers with lids</li> </ul>	<ul style="list-style-type: none"> <li>● 3 tokens, small objects, or scraps of paper for each student</li> <li>● 1 small stuffed animal, puppet, bean bag, or ball that can be thrown from student to student</li> </ul>
<p><b>Week 4</b></p>	<ul style="list-style-type: none"> <li>● Styrofoam in different shapes/sizes</li> <li>● 1 yard each of different types of fabric (cotton, wool, fleece, etc.)</li> <li>● *Cotton balls*</li> <li>● *Aluminum foil*</li> <li>● *Aluminum baking pans*</li> <li>● *Popsicle sticks*</li> <li>● *Thermometers*</li> </ul>	<ul style="list-style-type: none"> <li>● *Timer/stopwatch*</li> <li>● Access to tape (clear or masking)</li> <li>● Access to paper (copy and construction)</li> <li>● Containers of various materials (tissue boxes, plastic wipe containers, takeout containers, glass, tupperware, etc.)</li> <li>● Frozen water bottles</li> </ul>

<p><b>Week 5</b></p>	<ul style="list-style-type: none"> <li>● Small bowls</li> <li>● *Plastic wrap*</li> <li>● Salt</li> <li>● Paper plates</li> <li>● Metal gong, or something else that makes a loud, resonating sound</li> <li>● Medium bowls</li> <li>● Plastic spoons</li> <li>● Metal spoons</li> <li>● *Wooden spoons*</li> </ul>	<ul style="list-style-type: none"> <li>● *Rubber bands*</li> <li>● Air-filled ball (tennis ball, racquetball, wiffle ball, etc.)</li> <li>● Marble</li> <li>● Tub of water</li> <li>● Hot water</li> <li>● 2 items in your classroom that have unique structures for specific functions</li> <li>● Picture-taking technology (camera, phone, tablet) (optional)</li> </ul>
<p><b>Week 6</b></p>	<ul style="list-style-type: none"> <li>● Measuring Tapes (with both metric and customary units)</li> <li>● *Rulers* (with inches and cm)</li> <li>● Measuring cups</li> <li>● Measuring spoons</li> <li>● Tape</li> </ul>	<ul style="list-style-type: none"> <li>● Scales for each group (with pound and ounce capabilities) OR 7 metric scales/balances with grams if scale doesn't have metric</li> <li>● *Thermometers* with Celsius and Fahrenheit</li> </ul>
<p><b>Week 7</b></p>	<ul style="list-style-type: none"> <li>● 1 lemonade mix can with tablespoon for measuring</li> <li>● *Large cups*</li> <li>● Spoons</li> <li>● Butcher paper</li> </ul>	<ul style="list-style-type: none"> <li>● Access to trail mix items of your choice (be careful with student allergies) in bowls with serving spoons or cups (e.g., pretzels, nuts, marshmallows, small candies, cereal, raisins)</li> </ul>
<p><b>Week 8</b></p>	<ul style="list-style-type: none"> <li>● Measuring tape</li> <li>● Scale</li> <li>● *Thermometer*</li> <li>● Basketball</li> </ul>	<ul style="list-style-type: none"> <li>● 15-20 familiar items of various color, size, shape, odor, taste, texture, hardness, and flexibility</li> <li>● Bag or plastic container</li> </ul>
<p><b>Week 9</b></p>	<ul style="list-style-type: none"> <li>● *Styrofoam* in different shapes/sizes</li> <li>● Paper of different types</li> <li>● *Fabric* (cotton, wool, fleece, etc.)</li> <li>● *Cotton balls* or pads</li> <li>● *Aluminum foil*</li> <li>● Insulation materials</li> </ul>	<ul style="list-style-type: none"> <li>● *Popsicle sticks*</li> <li>● *Clay*</li> <li>● *Craft feathers*</li> <li>● *Bubble wrap*</li> <li>● Tape (many different types)</li> </ul>
<p><b>Week 10</b></p>	<ul style="list-style-type: none"> <li>● Same as Week 9</li> </ul>	
<p><b>Week 11</b></p>	<ul style="list-style-type: none"> <li>● *Airplanes*</li> <li>● *Styrofoam*</li> <li>● Paper (many different types)</li> <li>● *Fabric* (cotton, wool, fleece, etc.)</li> <li>● *Cotton balls* or pads</li> <li>● *Aluminum foil*</li> <li>● *Popsicle sticks*</li> <li>● Tape (many different types)</li> <li>● *Feathers*</li> </ul>	<ul style="list-style-type: none"> <li>● *Clay*</li> <li>● *Rulers* or yardsticks</li> <li>● Tape</li> <li>● P.E. cones</li> <li>● Prepared catapults</li> <li>● Prepared cargo nets</li> <li>● *Rubber bands*, rocks, blocks, any other launching materials</li> </ul>
<p><b>Week 12</b></p>	<ul style="list-style-type: none"> <li>● Pens with 8 or fewer parts</li> </ul>	<ul style="list-style-type: none"> <li>● *Building bricks*</li> </ul>

<b>Week 13</b>	<ul style="list-style-type: none"> <li>● Hot plates</li> <li>● Popcorn kernels</li> <li>● Lighter</li> <li>● Paper</li> <li>● Popsicles</li> <li>● Ice cream</li> <li>● Butter, split into 7 parts</li> <li>● Extra-small glasses of juice</li> <li>● Microwave oven</li> <li>● *Gloves*</li> <li>● *Dish soap*</li> <li>● *Funnels*</li> </ul>	<ul style="list-style-type: none"> <li>● Fridge or freezer</li> <li>● Eggs</li> <li>● Cake batter</li> <li>● Chocolate bars/pieces of chocolate</li> <li>● Lettuce leaves</li> <li>● Cookie dough balls on microwave-safe dishes</li> <li>● *Food coloring*</li> <li>● *Yeast*</li> <li>● Hydrogen peroxide</li> <li>● 16oz soda bottle</li> <li>● *Plastic cups*</li> </ul>
<b>Week 14</b>	<ul style="list-style-type: none"> <li>● *Osmocote fertilizer*</li> <li>● *Vermiculite*</li> <li>● Soilless potting mix</li> <li>● *Spray bottle*</li> </ul>	<ul style="list-style-type: none"> <li>● Clear cups with students' names and drilled/poked holes at bottom</li> <li>● *Seeds* (rapid growth)</li> <li>● *Watering can*</li> <li>● *Plastic cups*</li> </ul>
<b>Week 15</b>	<ul style="list-style-type: none"> <li>● *Red food coloring*</li> <li>● Alstroemeria flowers (2 bouquets)</li> <li>● *Feathers*</li> <li>● *Magnifying glasses*</li> <li>● Iceberg or romaine lettuce leaves</li> </ul>	<ul style="list-style-type: none"> <li>● Whole carrots with stems and root "hairs" attached</li> <li>● Celery stalks</li> <li>● Plates of dust or lint</li> </ul>
<b>Week 16</b>	<ul style="list-style-type: none"> <li>● Small bowls</li> <li>● Paper towels</li> <li>● Craft felt</li> </ul>	<ul style="list-style-type: none"> <li>● *Cotton swabs*</li> <li>● *Rapid growth seeds*</li> <li>● Cheese puffs</li> </ul>
<b>Week 17</b>	<ul style="list-style-type: none"> <li>● Buckets</li> </ul>	<ul style="list-style-type: none"> <li>● *Foam or plastic balls*</li> </ul>
<b>Week 18</b>	<ul style="list-style-type: none"> <li>● *Cotton balls*</li> <li>● Masking tape</li> <li>● Small tree made out of cardboard</li> <li>● *Wool*</li> <li>● *Fleece*</li> <li>● *Play doh*</li> </ul>	<ul style="list-style-type: none"> <li>● 5+ large flowers with pollen in their own vases</li> <li>● *Aluminum foil*</li> <li>● *Cotton fabric*</li> <li>● *Craft sticks*</li> <li>● *Felt*</li> </ul>
<b>Week 19</b>	<ul style="list-style-type: none"> <li>● *Flashlight*</li> </ul>	
<b>Week 20</b>	<ul style="list-style-type: none"> <li>● N/A</li> </ul>	
<b>Week 21</b>	<ul style="list-style-type: none"> <li>● N/A</li> </ul>	
<b>Week 22</b>	<ul style="list-style-type: none"> <li>● N/A</li> </ul>	

<p><b>Week 23</b></p>	<ul style="list-style-type: none"> <li>● Model volcano</li> <li>● *Red food coloring (optional)*</li> <li>● *Yellow food coloring (optional)*</li> <li>● *Vinegar*</li> <li>● *Liquid dishwashing soap*</li> <li>● *Baking soda*</li> <li>● Thread</li> <li>● String</li> <li>● Yarn</li> <li>● *Cake pan*</li> <li>● *Cornstarch*</li> <li>● *Wooden spoon*</li> <li>● *Clear jars/containers*</li> <li>● Newspaper</li> </ul>	<ul style="list-style-type: none"> <li>● Storage container (about 75 cm long x 40 cm wide x 15 cm deep)</li> <li>● Paper clips in different sizes</li> <li>● Small container (a 35 mm film container an old pill bottle a baby food jar or similar size container)</li> <li>● Cardboard box</li> <li>● Access to water, rocks, mud, and sand</li> <li>● Sturdy piece of cardboard, about 40 cm wide</li> <li>● Cardboard houses (can be made from the bottoms of small milk cartons)</li> <li>● Model trees (can be made from small bits of leafy branches)</li> </ul>
<p><b>Week 24</b></p>	<ul style="list-style-type: none"> <li>● Dish towels</li> <li>● Play dough/salt dough for each student</li> <li>● *Water droppers*</li> <li>● Clear tape</li> <li>● Small containers of plain chocolate candies</li> </ul>	<ul style="list-style-type: none"> <li>● *Plastic cups*</li> <li>● Water</li> <li>● Large glass baking pan</li> <li>● Sand or dirt</li> <li>● Ice cubes/chunks</li> <li>● Topographical maps of your area (one current and one at least 10 years old)</li> </ul>
<p><b>Week 25</b></p>	<ul style="list-style-type: none"> <li>● N/A</li> </ul>	
<p><b>Week 26</b></p>	<ul style="list-style-type: none"> <li>● Large plastic bin</li> <li>● Plastic bin</li> <li>● Measuring cup with at least a 2-cup minimum</li> <li>● Pitcher of water</li> <li>● *Watering can* with a rose spout</li> <li>● Paper (different types)</li> <li>● *Styrofoam*</li> <li>● *Plastic wrap*</li> </ul>	<ul style="list-style-type: none"> <li>● *Aluminum foil*</li> <li>● *Wax paper*</li> <li>● *Popsicle sticks*</li> <li>● Toothpicks</li> <li>● *Tape*</li> <li>● Sand, dirt, and rocks</li> <li>● Glue (different types)</li> <li>● Student-chosen building materials</li> <li>● *Building Bricks*</li> <li>● *Limestone rocks*</li> </ul>
<p><b>Week 27</b></p>	<ul style="list-style-type: none"> <li>● *Stopwatch</li> <li>● *Fan*</li> <li>● Paper (different types)</li> <li>● *Styrofoam*</li> <li>● *Plastic wrap*</li> <li>● *Aluminum foil*</li> <li>● *Wax paper*</li> <li>● *Popsicle sticks*</li> </ul>	<ul style="list-style-type: none"> <li>● *Toothpicks*</li> <li>● *Tape*</li> <li>● Sand, dirt, and rocks</li> <li>● Glue (different types)</li> <li>● *Building blocks*</li> <li>● Student-chosen building materials</li> <li>● Cardboard square for each group</li> <li>● *Limestone rocks*</li> </ul>
<p><b>Week 28</b></p>	<ul style="list-style-type: none"> <li>● *Play dough/salt dough/clay*</li> <li>● *Water dropper*</li> <li>● Cups/bowls filled halfway with sand/dirt</li> </ul>	<ul style="list-style-type: none"> <li>● Dish towels</li> <li>● Plastic tub</li> <li>● Grass or turf</li> <li>● Soil, sand, and rocks</li> </ul>

		<ul style="list-style-type: none"> <li>● *Watering can*</li> </ul>
<b>Week 29</b>	<ul style="list-style-type: none"> <li>● Plastic sheet/tarp</li> <li>● Safety glasses/goggles</li> <li>● Rock salt</li> <li>● *Plastic cups*</li> <li>● *Plastic containers*</li> <li>● Strainers</li> <li>● *Inflatable Globe*</li> <li>● Paper (different types)</li> <li>● *Styrofoam*</li> <li>● *Plastic wrap*</li> <li>● *Aluminum foil*</li> <li>● *Wax paper*</li> <li>● *Popsicle sticks*</li> <li>● *Toothpicks*</li> <li>● *Tape*</li> <li>● Sand, sediment, soil, dirt, pebbles, and *rocks*</li> </ul>	<ul style="list-style-type: none"> <li>● Glue (different types)</li> <li>● Student-chosen building materials</li> <li>● Snow/shaved ice</li> <li>● Small tubs with a rock/soil hill in the middle</li> <li>● Heating devices (hair dryers, hot plates, etc.)</li> <li>● Tub of water, covered with plastic wrap/wax paper</li> <li>● 2-liter bottles</li> <li>● *Cotton balls*</li> <li>● *Coffee filters*</li> <li>● *Rubber bands*</li> <li>● Pencil/sharp object</li> <li>● *Liquid soap pump*</li> <li>● Dirty water</li> </ul>
<b>Week 30</b>	<ul style="list-style-type: none"> <li>● *Plastic Cups*</li> <li>● Water</li> <li>● Plastic containers, one with a lid and one without</li> <li>● Very cold water bottle</li> <li>● Freezer</li> <li>● Heat source (sunshine, hot plate, microwave, hair dryer, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>● Play dough/*clay*</li> <li>● *Paper cups*, cut in half (use only the bottom half)</li> <li>● Hot water</li> <li>● *Sandwich-sized plastic bags*</li> <li>● *Flashlight*</li> <li>● *Small plastic take-out containers*</li> </ul>
<b>Week 31</b>	<ul style="list-style-type: none"> <li>● Cardboard</li> <li>● *Styrofoam*</li> <li>● Paper (many different types)</li> <li>● *Fabric* (cotton, wool, fleece, etc.)</li> <li>● *Cotton balls*</li> <li>● *Aluminum foil*</li> <li>● *Popsicle sticks*</li> </ul>	<ul style="list-style-type: none"> <li>● *Toothpicks*</li> <li>● Tape (many different types)</li> <li>● Play dough/*clay*</li> <li>● Student-chosen building materials</li> <li>● Topographical map of your area</li> <li>● Popsicle sticks</li> </ul>
<b>Week 32</b>	<ul style="list-style-type: none"> <li>● *Thermometer*</li> <li>● *Barometer*</li> <li>● Anemometer</li> <li>● Wind vane</li> <li>● Hygrometer</li> <li>● Rain gauges</li> <li>● Small jars (baby food jar, mason jar, etc.)</li> <li>● *Straws*</li> <li>● *Balloons*</li> <li>● *Rubber bands*</li> </ul>	<ul style="list-style-type: none"> <li>● Tape/glue</li> <li>● Index cards</li> <li>● Pencils with erasers</li> <li>● Thumb tacks</li> <li>● 1 2-liter soda bottle (marked with increments every ¼ inch, starting 2 inches from the bottom; filled with small rocks or dirt; then filled with water to “0”; top third of the bottle cut off and inverted into the top like a funnel)</li> </ul>