

# Foundations of Inquiry Science

## Standard Pace: Semester 1 Supply List

Lesson 1 — Organizing Things into Categories	
Required Items	Optional Items / At Home Demonstration
<ul style="list-style-type: none"><li>Paper and pencil OR <a href="#">Writing Sheet for Memory Game</a></li></ul>	<ul style="list-style-type: none"><li><a href="#">Categorizing Monsters</a> worksheet</li><li>Assortment of miscellaneous items from junk drawers and closets (for sorting practice)</li></ul>
Lesson 2 — Solids, Liquids, and Gases Introduction	
Required Items	Optional Items / At Home Demonstration
	<ul style="list-style-type: none"><li><a href="#">Solid, Liquid, Gas Sorting</a> worksheet</li><li><a href="#">Writing Pages</a></li><li>Water and various liquids in clear containers (cooking oil, liquid detergent, syrup, shampoo, etc.)</li><li>Various solid items (toys, pencils, dishes, coins, etc.)</li></ul>
Lesson 3 — Gravity Introduction	
Required Items	Optional Items / At Home Demonstration
<ul style="list-style-type: none"><li>Something to drop (literally anything that isn't going to break)</li><li>Clear bottle or cup with water in it</li><li>Some type of oil (vegetable oil works well)</li></ul>	
Lesson 4 — States of Matter: Changes with Temperature	
Required Items	Optional Items / At Home Demonstration
<ul style="list-style-type: none"><li>No additional supplies needed (uses same materials from Lesson 2)</li></ul>	
Lesson 5 — The Concepts of Horizontal and Vertical	
Required Items	Optional Items / At Home Demonstration
<ul style="list-style-type: none"><li>Blocks or something to stack that can fall without breaking</li></ul>	<ul style="list-style-type: none"><li>Plumb bob (any weight tied to the end of a string)</li><li>Carpenter's level</li><li><a href="#">Horizontal and Vertical Printable</a></li></ul>
Lesson 6 — What is Energy?	
Required Items	Optional Items / At Home Demonstration
	<ul style="list-style-type: none"><li><a href="#">Sorting Energy</a> worksheet</li><li><a href="#">Energy Transfers</a> worksheet</li></ul>
Lesson 7 — Air is Real	
Required Items	Optional Items / At Home Demonstration
<ul style="list-style-type: none"><li>Balance scale</li><li>Bubbles</li><li>Straw</li><li>Cup of water</li><li>Fan</li></ul>	<ul style="list-style-type: none"><li>Alternative to balance scale: stick/dowel balanced on a string OR a hanger</li></ul>

- Balloon (2)
- Bowl of water big enough to stick your hand in

### Lesson 8 — Energy Transformation

#### Required Items

- No additional supplies needed (same worksheets from Lesson 6)

#### Optional Items / At Home Demonstration

### Lesson 9 — Air and the Atmosphere

#### Required Items

- No additional supplies needed (uses same materials from Lesson 7)

#### Optional Items / At Home Demonstration

### Lesson 10 — Categorizing the World Around Us

#### Required Items

#### Optional Items / At Home Demonstration

- [Biological, natural Earth, and human-made sorting](#) worksheet

### Lesson 11 — Matter is Made of Particles

#### Required Items

- [Draw Particles Worksheet](#) or paper to draw on
- Piece of paper to rip up

#### Optional Items / At Home Demonstration

### Lesson 12 — Distinguishing Living Things from Natural Earth and Human Made

#### Required Items

#### Optional Items / At Home Demonstration

- [Fine Details](#) + Magnifying Glass

### Lesson 13 — Changes in Particles with States of Matter

#### Required Items

#### Optional Items / At Home Demonstration

- Diffusion Experiment: food coloring, hot water, cold water, room temperature water, three clear glasses

### Lesson 14 — Technology, Tools, and Animals

#### Required Items

#### Optional Items / At Home Demonstration

### Lesson 15 — Reversible and Nonreversible Changes

#### Required Items

#### Optional Items / At Home Demonstration