



**Switched-On**  
SCHOOLHOUSE® 2010 EDITION

# Science Lab Supply List

## General Science II

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**GENERAL SCIENCE II (2010): UNIT 1 - SCIENCE AND SOCIETY**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary and Supply List</b>	<b>Video Demo</b>
3	Essay: Mendel	Your goal for this assignment is to write an essay about Gregor Mendel. Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8	Essay: Da Vinci	Your goal for this assignment is to write an essay about Leonardo daVinci's inventions. Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**GENERAL SCIENCE II (2010): UNIT 2 - STRUCTURE OF MATTER (PART 1)**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>	<b>Video Demo</b>
2	Experiment: Determining Volume	<p>Your goals for this assignment are to measure a common geometric shape in centimeters and record answers, to calculate volume for the geometric shape, to utilize the method of displacement to determine volume, and to answer questions and summarize results.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• a metric ruler and an object with linear sides or a common geometric shape* (<i>ME-RULER \$0.75</i>)</li> <li>• string* (<i>MC-STRING \$1.25</i>)</li> <li>• water</li> <li>• small rock</li> <li>• graduated cylinder* (<i>CE-CYGL100 \$6.30</i>)</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Experiment: Metric Measurements	<p>Your goals for this assignment are to utilize a balance to find mass, to calculate volume from measurements, to calculate density from data on mass and volume, and to read a Celsius thermometer.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• a balance* (<i>BS-DB0200 \$59.95</i>)</li> <li>• a metric ruler* (<i>ME-RULER \$0.75</i>)</li> <li>• a small, rectangular wooden block* (<i>GS-WOODMD \$0.75</i>)</li> <li>• a Celsius (centigrade) thermometer* (<i>ME-THER30B \$2.95</i>)</li> <li>• ice cubes</li> <li>• water</li> <li>• three beakers* (<i>3-CE-BEI0250 \$2.70</i>)</li> <li>• labels</li> <li>• a heating source</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
12	Experiment: Mixtures	<p>Your goals for this assignment are to utilize a filter to separate a mixture of sand and water and to summarize your findings.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• salt</li> <li>• water</li> <li>• sand</li> <li>• a measuring cup</li> <li>• a balance* (<i>BS-DB0200 \$59.95</i>)</li> <li>• filter paper* (<i>CE-FILTPAP \$1.00</i>)</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
14	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

\* All items with a \* can be ordered at the following website: [www.hometrainingtools.com](http://www.hometrainingtools.com)

**GENERAL SCIENCE II (2010): UNIT 3 - STRUCTURE OF MATTER (PART 2)**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>	<b>Video Demo</b>
2	Experiment: Phase Changes	<p>Your goals for this assignment are to record the data and to summarize your findings.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• crushed ice</li> <li>• string* (MC-STRING \$1.25)</li> <li>• burner or alcohol lamp* (CE-BURNLAB \$47.95)</li> <li>• beaker* (CE-BEI0250 \$2.70)</li> <li>• ceramic pad* (CE-GAUZE \$1.40)</li> <li>• thermometer* (ME-THER30B \$2.95)</li> <li>• ring stand or alcohol stand* (CE-STAND2 \$9.95)</li> <li>• ethyl alcohol for use with alcohol lamp</li> <li>• time piece with a second hand</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	Experiment: Forms of Change	<p>Your goals for this assignment are to determine the change as physical or chemical and to write a scientific report including the specifications given in the experiment.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• sugar</li> <li>• beaker or dish* (CE-BEI0250 \$2.70)</li> <li>• water</li> <li>• stirring rod or teaspoon* (CE-STIRROD \$0.60)</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11	Experiment: Cabbage	<p>Your goals for this assignment are to use indicator for each substance to determine if substance is an acid or a base and to summarize results and the experimental method.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• red cabbage</li> <li>• 6 small test tubes* (CE-TTBSB06 \$4.95)</li> <li>• knife</li> <li>• crayons</li> <li>• a pot</li> <li>• a stove or other heat source</li> <li>• a small jar</li> <li>• a spoon</li> <li>• baking soda in water</li> <li>• lemon juice</li> <li>• vinegar</li> <li>• water</li> <li>• ammonia</li> <li>• milk</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
15	Special Project	<p>Special Project assignments are used by teachers to create their own projects if needed.</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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**GENERAL SCIENCE II (2010): UNIT 4 - HEALTH AND NUTRITION**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>	<b>Video Demo</b>
4	Experiment: Food Record	Your goals for this assignment are to record your diet for a week utilizing the chart and to write a description of the foods eaten in each category.  Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Essay: Nutrition	Your goal for this assignment is to write an essay about nutrition.  Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**GENERAL SCIENCE II (2010): UNIT 5 - ENERGY (PART 1)**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>	<b>Video Demo</b>
9	Essay: Entropy	Your goal for this assignment is to write a report on the implications of entropy to a Christian.  Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**GENERAL SCIENCE II (2010): UNIT 6 - ENERGY (PART 2)**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>	<b>Video Demo</b>
2	Experiment: Magnetism	<p>Your goal for this assignment is to diagram the magnetic fields around the magnets.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• two bar magnets* (<i>MG-BAR1C \$1.25</i>)</li> <li>• one horseshoe magnet* (<i>MG-HORSE1 \$4.95</i>)</li> <li>• iron filings* (<i>CH-IRON \$2.25</i>)</li> <li>• sheet of glass</li> <li>• plastic or paper</li> <li>• paper clips</li> <li>• several different small metal objects</li> <li>• thumbtack</li> <li>• compass* (<i>GS-COMPASS \$2.40</i>)</li> <li>• several sheets of paper</li> <li>• string* (<i>MC-STRING \$1.25</i>)</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
9	Experiment: Hot Dog Cooker	<p>Your goal for this assignment is to write a report on solar energy.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• hot dog</li> <li>• long segment of metal coat hanger</li> <li>• aluminum foil</li> <li>• scissors</li> <li>• cardboard</li> <li>• glue</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
11	Special Project	<p>Special Project assignments are used by teachers to create their own projects if needed.</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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**GENERAL SCIENCE II (2010): UNIT 7 - MACHINES (PART 1)**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>	<b>Video Demo</b>
2	Essay: Scientists	Your goal for this assignment is to write a report on one of the Christian scientists listed.  Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**GENERAL SCIENCE II (2010): UNIT 8 - MACHINES (PART 2)**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>	<b>Video Demo</b>
3	Experiment: Friction Investigation	<p>Your goals for this assignment are to calculate coefficient of friction for the matchbox and to answer questions and summarize results.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• small match box</li> <li>• pebbles</li> <li>• coins (pennies are best)</li> <li>• string (about 24 inches long)* (<i>MC-STRING \$1.25</i>)</li> <li>• small plastic bag</li> <li>• 8 or 10 round sticks (pencils, Tinker Toys, dowels)</li> <li>• small scale or balance* (<i>BS-DB2000 \$59.95</i>)</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8	Experiment: Pencil Sharpener	<p>Your goal for this assignment is to determine the AMA, IMA and efficiency of the pencil sharpener.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• wall mounted pencil sharpener</li> <li>• book</li> <li>• 2 meters of string* (<i>MC-STRING \$1.25</i>)</li> <li>• metric ruler* (<i>ME-RULER \$0.75</i>)</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
12	Special Project	<p>Special Project assignments are used by teachers to create their own projects if needed.</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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**GENERAL SCIENCE II (2010): UNIT 9 - BALANCE IN NATURE**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>	<b>Video Demo</b>
10	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**GENERAL SCIENCE II (2010): UNIT 10 - SCIENCE AND TECHNOLOGY**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>	<b>Video Demo</b>
14	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No