



**Switched-On**  
SCHOOLHOUSE® 2010 EDITION

# Science Lab Supply List

Science 300

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**SCIENCE 300 (2010): UNIT 1 - YOU GROW AND CHANGE**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary and Supply List</b>
3	Experiment: Breathing Patterns	<p>Your goals for this assignment are to measure breathing patterns and understand that the body needs oxygen.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• a clock with a second hand</li> </ul>
4	Experiment: Your Lungs	<p>Your goal for this assignment is to feel how lungs move during breathing.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• a sponge</li> </ul>
7	Experiment: Taste Test	<p>Your goal for this assignment is to compare how foods pass through a paper towel.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• cocoa</li> <li>• salt</li> <li>• teaspoon</li> <li>• a paper towel</li> <li>• a small drinking glass</li> <li>• a large drinking glass half full of water</li> </ul>
10	Experiment: Taking Your Pulse	<p>Your goals for this assignment are to practice taking a pulse and to understanding that a pulse tells how fast the heart is beating.</p> <p>Supply List: N/A</p>
11	Project: Bone Numbers	<p>Your goal for this assignment is to understand that the body is made of many bones.</p> <p>Supply List: N/A</p>
15	Special Project	<p>Special Project assignments are used by teachers to create their own projects if needed.</p>

**SCIENCE 300 (2010): UNIT 2 - PLANTS**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>
2	Experiment: Root Hairs	Your goal for this assignment is to study root hairs on a plant. Supply List: <ul style="list-style-type: none"> <li>• a small plant</li> <li>• a magnifying glass</li> </ul>
3	Experiment: Study a Stem	Your goal for this assignment is to study the stem of a plant. Supply List: <ul style="list-style-type: none"> <li>• a small jar with water</li> <li>• food coloring</li> <li>• a celery stem</li> <li>• magnifying glass</li> </ul>
6	Experiment: Grow Some Plants	Your goal for this assignment is to test how light affects plant growth. Supply List: <ul style="list-style-type: none"> <li>• two small potted plants or bean seedlings</li> <li>• a box</li> <li>• a sunny window</li> </ul>
9	Experiment: Watch Bean Seeds Grow	Your goals for this assignment is to understand that plants come from seeds and to be able to list the things seeds need to grow. Supply List: <ul style="list-style-type: none"> <li>• a jar with water</li> <li>• five paper cups</li> <li>• about fifteen (15) lima beans</li> <li>• potting soil</li> <li>• wet paper towel</li> </ul>
10	Experiment: Plant a Piece of Potato	Your goal for this assignment is to study the growth of a potato plant. Supply List: <ul style="list-style-type: none"> <li>• a white potato (one with eyes on it)</li> <li>• a pot of soil</li> <li>• a knife</li> <li>• some water</li> </ul>
11	Experiment: Bean Plant	Your goal for this assignment is to study the growth of a bean plant, understanding that some parts of a plant grow faster than other parts. Supply List: <ul style="list-style-type: none"> <li>• a glass jar</li> <li>• wet paper towel</li> <li>• felt marker</li> <li>• three lima beans</li> <li>• a centimeter ruler</li> </ul>
13	Special Project	Special Project assignments are used by teachers to create their own projects if needed.

**SCIENCE 300 (2010): UNIT 3 - ANIMALS: GROWTH AND CHANGE**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>
2	Experiment: Hourly Temperature Changes	Your goal for this assignment is to study how temperature changes with time. Supply List: <ul style="list-style-type: none"> <li style="display: inline-block; width: 45%;">• a clock</li> <li style="display: inline-block; width: 45%;">• a thermometer</li> </ul>
3	Experiment: Heat Energy Comparison	Your goal for this assignment is to compare the energy needed to heat water and soil. Supply List: <ul style="list-style-type: none"> <li style="display: inline-block; width: 45%;">• two pint glass jars or bowls</li> <li style="display: inline-block; width: 45%;">• soil</li> <li style="display: inline-block; width: 45%;">• two thermometers</li> <li style="display: inline-block; width: 45%;">• water</li> <li style="display: inline-block; width: 45%;">• ruler</li> </ul>
4	Project: Desert Locations	Your goal for this assignment is to list world deserts and their locations. Supply List: N/A
8	Project: Vertebrate Chart	Your goal for this assignment is to group vertebrates by special characteristics. Supply List: N/A
10	Project: Sort Birds By Type	Your goal for this assignment is to sort bird pictures by diet. Supply List: N/A
13	Project: Sow Bug Environment	Your goal for this assignment is to study the behavior of sow bugs. Supply List: <ul style="list-style-type: none"> <li style="display: inline-block; width: 45%;">• a gallon jar</li> <li style="display: inline-block; width: 45%;">• moist soil</li> <li style="display: inline-block; width: 45%;">• a lid with some small holes in it that will fit</li> <li style="display: inline-block; width: 45%;">• potato</li> <li style="display: inline-block; width: 45%;">• the jar</li> <li style="display: inline-block; width: 45%;">• three or four sow bugs</li> </ul>
15	Special Project	Special Project assignments are used by teachers to create their own projects if needed.

**SCIENCE 300 (2010): UNIT 4 - YOU ARE WHAT YOU EAT**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>
5	Project: Breakfast Chart	Your goals for this assignment are to track the foods you eat for breakfast and to understand that the body needs foods from each group. Supply List: N/A
6	Project: Lunch Chart	Your goals for this assignment are to track the foods you eat for lunch and to understand that the body needs foods from each group. Supply List: N/A
7	Project: Dinner Chart	Your goals for this assignment are to track the foods you eat for dinner and to understand that the body needs foods from each group. Supply List: N/A
8	Project: Chart Totals	Your goals for this assignment are to total the foods you ate for breakfast, lunch, and dinner and to understand that the body needs foods from each group. Supply List: N/A
13	Special Project	Special Project assignments are used by teachers to create their own projects if needed.

**SCIENCE 300 (2010): UNIT 5 - PROPERTIES OF MATTER**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>
2	Experiment: Be a Chemist	Your goal for this assignment is to experiment with matter. Supply List: <ul style="list-style-type: none"> <li>• a pan of water</li> <li>• a cup of sand</li> <li>• a stick</li> </ul>
4	Experiment: Volume	Your goal for this assignment is to understand that all matter has volume and takes up space. Supply List: <ul style="list-style-type: none"> <li>• three different sizes of books</li> <li>• three different sizes of bottles filled with water</li> <li>• three different sizes of rocks</li> <li>• one card with "small" printed on it</li> <li>• one card with "middle" printed on it</li> <li>• one card with "big" printed on it</li> </ul>
5	Experiment: Think about Mass	Your goal for this assignment is to understand that objects can have different weights and masses. Supply List: <ul style="list-style-type: none"> <li>• a book</li> <li>• a brick</li> </ul>
6	Experiment: Is Air Matter?	Your goal for this assignment is to test the mass of air. Supply List: <ul style="list-style-type: none"> <li>• two balloons</li> <li>• wire coat hanger</li> <li>• door</li> </ul>
7	Project: Matter List	Your goal for this assignment is to list different types of matter. Supply List: N/A
8	Experiment: Is Water Matter?	Your goal for this assignment is to test the mass of water. Supply List: <ul style="list-style-type: none"> <li>• small diet scale</li> <li>• cup</li> <li>• water</li> </ul>
11	Experiment: Mass Measurement	Your goal for this assignment is to compare the mass of matter in different states. Supply List: <ul style="list-style-type: none"> <li>• food scale that reads in grams</li> <li>• baby-food jar</li> <li>• ice cube</li> </ul>
12	Experiment: Melting Ice Cubes	Your goal for this assignment is to study how temperature affects ice cubes. Supply List: <ul style="list-style-type: none"> <li>• f 5 paper cups</li> <li>• 5 ice cubes</li> <li>• refrigerator</li> <li>• cool water</li> <li>• hot water</li> <li>• clock or watch</li> </ul>
15	Special Project	Special Project assignments are used by teachers to create their own projects if needed.

**SCIENCE 300 (2010): UNIT 6 - SOUNDS AND YOU**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>
2	Experiment: Vibrations	Your goal for this assignment is to experiment with sound vibrations from a drum. Supply List: <ul style="list-style-type: none"> <li>• drum</li> <li>• pencil</li> <li>• dry cereal</li> </ul>
6	Experiment: Sound Patterns	Your goal for this assignment is to understand that sound can travel through things. Supply List: <ul style="list-style-type: none"> <li>• a partner</li> <li>• ruler</li> <li>• water in large glass</li> <li>• stones</li> </ul>
7	Report: Read and Write About Sound	Your goal for this assignment is to write about sound. Supply List: N/A
8	Experiment: High and Low Sounds	Your goal for this assignment is to study how vibration speed affects sound. Supply List: <ul style="list-style-type: none"> <li>• strong box, open on one side</li> <li>• rubber bands of different sizes</li> </ul>
9	Experiment: Loud or Soft?	Your goal for this assignment is to experiment with sound vibrations from a coffee can. Supply List: <ul style="list-style-type: none"> <li>• coffee can with plastic lid</li> <li>• dry cereal</li> </ul>
12	Experiment: Think About Hearing	Your goal for this assignment is to compare how well sounds are heard. Supply List: <ul style="list-style-type: none"> <li>• a clock that ticks</li> <li>• yardstick</li> <li>• a roll of paper</li> </ul>
13	Report: How Animals Hear	Your goal for this assignment is to write about animal hearing. Supply List: N/A
15	Special Project	Special Project assignments are used by teachers to create their own projects if needed.



**SCIENCE 300 (2010): UNIT 7 - TIME AND SEASONS**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>
2	Experiment: The Earth	<p>Your goal for this assignment is to understand that it cannot be light all over the earth at once.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• bright flashlight</li> <li>• paper towel tube</li> <li>• globe</li> <li>• tape</li> </ul>
3	Experiment: Night	<p>Your goal for this assignment is to understand that when one side of the earth is light the other side is dark.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• lamp</li> </ul>
4	Experiment: The Earth's Rotation	<p>Your goal for this assignment is to use a clay model to learn about the earth.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• clay</li> <li>• two pins</li> <li>• pencil</li> </ul>
7	Experiment: Different Times	<p>Your goal for this assignment is to understand that it is day during different times around the world.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• flashlight</li> <li>• globe</li> <li>• chalk</li> </ul>
8	Report: Months	<p>Your goal for this assignment is to write about how months got their names.</p> <p>Supply List: N/A</p>
12	Special Project	<p>Special Project assignments are used by teachers to create their own projects if needed.</p>

**SCIENCE 300 (2010): UNIT 8 - ROCKS AND THEIR CHANGE**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>
4	Experiment: Bubbling Grains of Rock	Your goal for this assignment is to watch how vinegar reacts with limestone. Supply List: <ul style="list-style-type: none"><li>• a piece of limestone</li><li>• a pocket knife</li><li>• some vinegar</li><li>• a spoon</li></ul>
10	Report: Mount Rushmore	Your goal for this assignment is to write about Mount Rushmore. Supply List: N/A
11	Special Project	Special Project assignments are used by teachers to create their own projects if needed.

**SCIENCE 300 (2010): UNIT 9 - HEAT ENERGY**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>
2	Experiment: Feeling Friction	<p>Your goal for this assignment is to use friction to create heat.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• wood</li> <li>• sandpaper</li> <li>• a nail</li> <li>• a hammer</li> </ul>
3	Experiment: Oxygen and Fire	<p>Your goal for this assignment is to understand that fire needs oxygen to burn.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• 3 candles in holders</li> <li>• 1 quart jar</li> <li>• 1 pint jar</li> <li>• matches</li> <li>• clock or timer</li> </ul>
5	Experiment: Static Electricity	<p>Your goal for this assignment is to create static electricity.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• a small flat box</li> <li>• plastic food wrap</li> <li>• small bits of paper (tissue)</li> </ul>
8	Experiment: Water Molecules	<p>Your goal for this assignment is to understand that water molecules move faster in hot water.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• two clear glasses</li> <li>• food coloring</li> <li>• hot water</li> <li>• dropper</li> <li>• cold water</li> <li>• clock or timer</li> </ul>
10	Experiment: Changing Liquid to Gas	<p>Your goal for this assignment is to understand that heat can change liquid into gas.</p> <p>Supply List:</p> <ul style="list-style-type: none"> <li>• an adult to help you use the stove</li> <li>• a one cup measure</li> <li>• water</li> <li>• a pan or kettle</li> <li>• clock or timer</li> <li>• pot holder</li> </ul>
14	Special Project	<p>Special Project assignments are used by teachers to create their own projects if needed.</p>

**SCIENCE 300 (2010): UNIT 10 - REVIEW**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary</b>
7	Project: Rock Collection	Your goal for this assignment is to write about rocks. Supply List: N/A
10	Experiment: How Sound Travels	Your goal for this assignment is to understand that sound can travel through objects. Supply List: <ul style="list-style-type: none"> <li>• string</li> <li>• wire</li> <li>• chair</li> <li>• coat hanger</li> </ul>
11	Experiment: Temperature Comparisons	Your goal for this assignment is to study how color affects temperature. Supply List: <ul style="list-style-type: none"> <li>• 2 small cardboard boxes (same size)</li> <li>• black paper</li> <li>• white paper</li> <li>• 2 thermometers</li> <li>• glue</li> </ul>
13	Special Project	Special Project assignments are used by teachers to create their own projects if needed.