

**Florida Sunshine State Standards  
 Grades 5 through 9  
 Scientific Processes Series  
 Visual Learning Company  
 1-800-453-8481**

Sunshine State Standards	Video Title with Concepts and Vocabulary	Teacher's Guide Activities	Assessment Tools
<p><i>Safety in Science:</i></p> <p><b>The Nature of Science Standard 3:</b>  <b>Benchmark SC.H.3.3.1</b>            The student know that science ethics demand that scientists must not knowingly subject coworkers, students, the neighborhood, or the community to health or property risks. The student uses appropriate procedures for safety in the classroom, home, and community.</p>	<p><i>Safety in Science Video:</i></p> <p>This program demonstrates safe practices in science when conducting even the simplest of activities. Emphasis is placed on avoiding accidents to eyes, skin, clothing, and equipment. Safe practices in using glassware, heating materials, using chemicals, and utilizing sharp instruments are highlighted.</p> <p>Other terminology includes: protective eyeglasses, fire extinguisher, tongs, glasses, and eyewash.</p>	<p><i>Safety in Science Teacher's Guide Activities:</i></p> <ul style="list-style-type: none"> <li>• Heat and Fire – p. 25-26</li> <li>• Safety Equipment – p. 27</li> <li>• Dressing for Science – p. 28-29</li> </ul>	<p><i>Safety in Science Teacher's Guide Activities:</i></p> <ul style="list-style-type: none"> <li>• Preliminary Test – p. 20-21</li> <li>• Video Review – p.22</li> <li>• Post Test – p.23-24</li> <li>• Vocabulary of Safety in Science – p. 30</li> </ul>

<p>Visual Learning Company Scientific Processes (continued)</p>			
<p><b><i>Measuring in Science:</i></b></p> <p><b><i>The Nature of Science</i></b>  <b>Standard 1:</b>  <b>Benchmark SC.H.1.3.4</b>  The student knows that accurate record keeping, openness, and replication are essential to maintaining an investigator’s credibility with other scientists and society.</p>	<p><b><i>Measuring in Science Video:</i></b></p> <p>Measuring is a vital process in science, and it is a process all students can carry out. This program demonstrates many of the different ways measurement occurs in science including measuring length, mass, volume, and temperature. Special emphasis is placed on using the metric system.</p> <p>Concepts and terminology discussed include: balance, meter stick, graduated cylinder, beaker, water displacement, density, and Celsius.</p>	<p><b><i>Measuring in Science Teacher’s Guide Activities:</i></b></p> <ul style="list-style-type: none"> <li>• Metric Magic – p. 25</li> <li>• Measuring Length – p. 26-27</li> <li>• Measuring Volume – p. 28-29</li> </ul>	<p><b><i>Measuring in Science Teacher’s Guide Activities:</i></b></p> <ul style="list-style-type: none"> <li>• Preliminary Test – p. 20-21</li> <li>• Video Review – p. 22</li> <li>• Post Test – p. 23-24</li> <li>• Vocabulary of Measuring in Science – p. 30</li> </ul>
<p><b><i>Your Science Fair Project:</i></b></p> <p><b><i>The Nature of Science</i></b>  <b>Standard 1:</b>  <b>Benchmark SC.H.1.3.4</b>  The student knows that accurate record keeping, openness, and replication are essential to maintaining an investigator’s credibility with other scientists and society.</p> <p><b>Benchmark SC.H.1.3.5</b>  The student knows that a change in one or more variables may alter the outcome of an investigation.</p>	<p><b><i>Your Science Fair Project Video:</i></b></p> <p>In this video the scientific method is explained in detail serving as the basis for your science fair project. The process of creating a science fair project along with helpful hints for success is described.</p> <p>Concepts and terminology discussed include: Hypothesis, experiment, data, conclusion, data table, and graphing.</p>	<p><b><i>Your Science Fair Project Teacher’s Guide Activities:</i></b></p> <ul style="list-style-type: none"> <li>• The Scientific Method – p. 25-26</li> <li>• Science Fair Count Down! – p. 27</li> <li>• Suggestions for Your Display – p. 28</li> <li>• Hints for a Successful Science Fair Project – p. 29</li> </ul>	<p><b><i>Your Science Fair Project Teacher’s Guide Activities:</i></b></p> <ul style="list-style-type: none"> <li>• Preliminary Test – p. 20-21</li> <li>• Video Review – p. 22</li> <li>• Post Test – p. 23-24</li> <li>• Vocabulary of Your Science Fair Project – p. 30</li> </ul>
<p>Visual Learning Company</p>			

Scientific Processes (continued)			
<p><b><i>Observations and Data:</i></b></p> <p><b><i>The Nature of Science</i></b>  <b>Standard 1:</b>  <b>Benchmark SC.H.1.3.1</b>  The student knows that scientific knowledge is subject to modification as new information challenges prevailing theories and as a new theory leads to looking at old observations in a new way.</p> <p><b>Benchmark SC.H.1.3.5</b>  The student knows that a change in one or more variables may alter the outcome of an investigation.</p>	<p><b><i>Observations and Data Video:</i></b></p> <p>This video highlights different ways observations are made, emphasizing methods by which students can observe their world. Different types of data, how data is obtained, and the display of data are described.</p> <p>Concepts and terminology discussed include: senses, measuring, instruments, data, recording, data table, data analysis, and graphing.</p>	<p><b><i>Observations and Data Teacher's Guide Activities:</i></b></p> <ul style="list-style-type: none"> <li>• Observation Skills – p. 25</li> <li>• Graphing Your Heart Rate – p. 26-28</li> <li>• Interpreting Graphs – p. 29</li> </ul>	<p><b><i>Observations and Data Teacher's Guide Activities:</i></b></p> <ul style="list-style-type: none"> <li>• Preliminary Test – p. 20-21</li> <li>• Video Review – p. 22</li> <li>• Post Test – p. 23-24</li> <li>• Vocabulary of Observations and Data– p.30</li> </ul>