

# RCS High School Science Unit Plans

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**Subject: Earth Science**

**Unit: Principles of Science # of Days: 7**

Essential Standards \_\_\_\_\_ Clarifying Objective \_\_\_\_\_

<p>Big Ideas in NOUNS and ADJECTIVES (Vocabulary)          Scientific Method: control, independent variable, dependent variable, constant, hypothesis          Graphing: axes, labels, scale, key, line, bar, pie          Metric Conversion: SI units, volume, mass, density, grams, liters, meters, Celcius, Kelvin          Scientific Notation: exponent          Maps: scale, key, compass, latitude, longitude, compass, topographic</p>	<p>Real World Performance in VERBS          (SM)Identify, observe, hypothesize, design, record, analyze, measure, explain, conclude, organize, experiment          (G) record, analyze, compare, conclude, design, create, organize, draw, create, infer          (MC&amp;SN) measure, predict, calculate, convert, quantitate, relate, compare, contrast, observe, extrapolate, calibrate,          (Maps) read, observe, analyze, interpret, locate, identify, relate/compare, contrast, draw, design, create, measure</p>
<p>Understanding(s):           Scientific method, graphing, metric conversions, scientific notation, introduction to maps</p>	<p>I Can...          Identify the independent and dependent variables of an experiment.          Identify the control in an experiment.          Identify the constants in an experiment.          Explain what makes an experiment reliable.          Form a testable hypothesis.          Design a reliable experiment.          Graph data (scale, type).          Read, analyze, and draw conclusions from a graph.          Use and measure metric units.          Identify the appropriate unit of measure.          Convert from standard to scientific notation.          Convert from scientific notation to standard notation.          Read a map.          Interpret directions, scale, and landmarks.</p>
<p>Performance Task Ideas/Activities:           See LiveBinder</p>	<p>Websites:           See LiveBinder</p>
<p>Literacy Shift Ideas: (Reading/writing)          Design an experiment (SpongeBob)          Lab Safety Reading (Spongebob)</p>	<p>21<sup>st</sup> Century Themes</p> <ul style="list-style-type: none"> <li>○ <b>Global Awareness</b></li> <li>○ Financial, Economic, Business &amp; Entrepreneurial Literacy</li> <li>○ Civic Literacy</li> <li>○ Health Literacy</li> <li>○ <b>Environmental Literacy</b></li> </ul>
<p>Assessments</p>	<p>Additional Info:          3 days: Scientific Method</p>

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	3 days: Graphing 3 days: Metric and Scientific Notation 1 day: Intro to Maps
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