

# Physical Science Curriculum Map

	<b>ENDURING UNDERSTANDING BIG IDEAS THEMES</b>	<b>STANDARD AND INDICATORS</b>	<b>ESSENTIAL QUESTIONS</b>	<b>ESSENTIAL SKILLS/ CONCEPTS TO BE TARGETED &amp; INSTRUCTIONAL STRATEGIES</b> Teachers will present and students will learn	<b>ACTIVITIES</b>	<b>ASSESSMENT</b>
<b>1</b> 	Experimental Design - How Scientists Work	<p><b>Scientific Inquiry</b></p> <ol style="list-style-type: none"> <li>1. Research and apply appropriate safety precautions when designing and conducting scientific investigations (e.g. OSHA, MSDS, eyewash, goggles and ventilation).</li> <li>2. Present scientific findings using clear language, accurate data, appropriate graphs, tables, maps and available technology.</li> <li>3. Use mathematical models to predict and analyze natural phenomena.</li> <li>4. Draw conclusions from inquiries based on scientific knowledge and principles, the use of logic and evidence (data) from investigations.</li> <li>5. Explain how new scientific data can cause any existing scientific explanation to be supported, revised or rejected.</li> </ol> <p><b>Scientific Way of Knowing</b></p> <p>A. Explain that scientific knowledge must be based on evidence, be predictive, logical, subject to modification and limited to the natural world.</p> <p>B. Explain how scientific inquiry is guided by knowledge, observations, ideas and questions.</p>	<p>What do scientists do?</p> <p>What are some things we should be aware of as citizens of, while working in a science classroom?</p> <p>What information should we gather to prove our point?</p> <p>How should we present our information?</p> <p>How should we communicate our results? Share our information with others without boring them?</p> <p>What methods will help us solve our problem?</p> <p>What evidence supports our findings?</p> <p>Why is the</p>	<p>Safety rules and concerns</p> <p>Safety equipment in and around the room</p> <p>How to use MSDS sheets</p> <p>Experimental design</p> <p>White boarding</p> <p>Graphing</p> <p>Data collection</p> <p>Linear fit</p> <p>Conclusion writing</p> <p>Data analysis</p> <p>Communication</p> <p>Observations</p> <p>Inferences</p> <p>Independent variable</p> <p>Dependent variable</p> <p>Controls</p>	<p>Science whiteboard</p> <p>Use whiteboards to list student/teacher responsibilities</p> <p>Use whiteboards to discuss safety concerns</p> <p>Safety demonstrations</p> <p>Safety web quest</p> <p>MSDS reviews</p> <p>How strong is spaghetti?</p> <p>What makes the pendulum move faster?</p> <p>Make a pendulum that matches the beat of your favorite song</p> <p>How many candies are in the jar?</p> <p>Examine observations</p> <p>Observation vs. inference</p>	<p>Safety contracts</p> <p>Safety web quest worksheet</p> <p>White boarding presentations</p> <p>Lab challenge pendulum</p> <p>Observation vs. inference reviews</p> <p>Lab participation</p> <p>Composition books</p> <p>Lab write-ups</p> <p>Formative assessments</p> <p>Scientific or not?</p> <p><a href="http://www.middleschoolscience.com/">http://www.middleschoolscience.com/</a></p> <p><a href="http://www.middleschoolscience.com/">http://www.middleschoolscience.com/</a></p>

# 9th Grade Physical Science Curriculum Map

**Kathleen Armour**



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