

<b>Planned Course: Physical Science</b>	<b>Course Number: 400</b>	<b>Department: Science</b>	
<b>Unit 6: Properties of Matter</b>	<b>Grade Level: 9th</b>		
<b>Estimated Time: 5 weeks</b>	<b>Level/Track: General</b>	<b>Date Approved: 9/25/2014</b>	
<b>PA Academic Standards</b>	<b>▶ Core Concepts (in question format)</b> <ul style="list-style-type: none"> <li>• Skills/Knowledge</li> </ul>	<b>Activities/Strategies/Study Skills</b> (identify some activities as remedial or enrichment activities)	<b>Assessments</b> (include types and topics)

<p>3.2. Physical Science: Chemistry and Physics</p> <p>3.2.C.A1. Differentiate between physical properties and chemical properties.</p> <ul style="list-style-type: none"> <li>• Differentiate between pure substances and mixtures; differentiate between heterogeneous and homogeneous mixtures.</li> </ul> <p>3.2.10.A3. Describe phases of matter according to the kinetic molecular theory.</p> <p>3.2.C.A3 Describe the three normal states of matter in terms of energy, particle motion, and phase transitions.</p>	<p>▶ What makes up matter and how is it affected by temperature?</p> <ul style="list-style-type: none"> <li>• The student will give examples of physical and chemical properties</li> <li>• The student will describe the four states of matter</li> <li>• The student will interpret state changes in terms of the kinetic theory of matter</li> <li>• The student will use the kinetic theory of matter to explain the characteristics of solids, liquids and gases of the atom.</li> <li>• The student will classify types of matter and mixtures.</li> <li>• The student will describe the components of a solution.</li> </ul>	<ul style="list-style-type: none"> <li>• Lab, using a dichotomy key to identify matter</li> <li>• Classification game (substances vs. mixtures)</li> <li>• Concept mapping</li> <li>• Density problems</li> <li>• Properties of liquids activity</li> <li>• Chemical change lab</li> </ul>	<ul style="list-style-type: none"> <li>• Hands on Lab Assessment (Dichotomous Key Lab, Identifying and Classifying Matter, Phase Change and Thermal Expansion Demonstrations, Phase Change Lab)</li> <li>• Lab Simulations</li> <li>Assessment (States of Matter Simulation, States of Matter Webquest)</li> <li>• Quizzes on major concepts</li> <li>• Homework to reinforce major concepts</li> <li>• Unit Test</li> </ul>
---	---	--	--