

**Chemistry - Mrs. Bauck, PHUHS**  
 Unit 2: Forms of Matter – Chapter 2  
 State Standards (\*\* = Chem 1H only)

**Topic 1: Matter and Change**

SC.912.P.8.1 (AA) Differentiate among the four states of matter.

SC.912.P.8.2 (AA) Differentiate between physical/chemical properties and physical/chemical changes of matter.

**Topic 2: Methods and Experiments**

SC.912.P.8.2 (AA) see above

4.0	Extensions/Applications	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Carry out experiments to separate various types of mixtures using simple laboratory techniques based on physical properties.</li> <li><input type="checkbox"/> List examples of colloidal suspensions and thixotropic mixtures.</li> </ul>
3.0	Learning Goal (Derived from State Standard)	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Differentiate between heterogeneous and homogeneous mixtures</li> <li><input type="checkbox"/> Differentiate between physical and chemical properties of matter.</li> <li><input type="checkbox"/> Differentiate between physical and chemical changes of matter.</li> <li><input type="checkbox"/> Discuss five everyday examples of heterogeneous and homogeneous mixtures and how to differentiate.</li> <li><input type="checkbox"/> Discuss five examples of physical and chemical changes in matter in our daily lives.</li> </ul>
2.0	Required Skills or Background Knowledge to accomplish Learning Goal	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Identify and describe the four states of matter in terms of arrangement and movement of particles.</li> <li><input type="checkbox"/> Describe how to separate various types of mixtures using simple laboratory techniques based on physical properties .</li> <li><input type="checkbox"/> Distinguish between an element, a compound, and a mixture.</li> </ul>
1.0	With help from the teacher, student has partial success with the goal	<p>With help from a teacher, students will be able to:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Achieve partial success with 2.0 and/or 3.0.</li> </ul>
0.0	Even with help, the student has no success with the goal	<ul style="list-style-type: none"> <li><input type="checkbox"/> Even with help, student is unable to understand or complete any of the skills in scales 1.0 through 4.0.</li> </ul>