Chapter 15 – Classification of Matter **I Can Statements**

I can…

_____ 1. Define the terms "substance" and "mixture".

_____ 2. Distinguish between substances and mixtures based on observations and descriptions.

_____ 3. Define the terms "element" and "compound".

_____ 4. Distinguish between elements and compounds based on chemical formulas. (*or by using the periodic table.*)

_____ 5. Compare and contrast heterogeneous mixtures and homogeneous mixtures.

_____ 6. Compare and contrast solutions, colloids, and suspensions.

_____ 7. Classify mixtures as solutions, colloids, or suspensions using information in Table 1, page 456. (*This may be difficult based upon only the scattering of light to separate solutions and colloids, how were you planning on doing this?*)

_____ 8. Compare and contrast physical and chemical properties. (*Identify physical and chemical properties of matter.*)

_____ 9. Identify and separate substances using physical properties.

_____ 10. Compare and contrast physical and chemical changes.

_____ 11. Identify chemical changes.

_____ 12. Explain how the law of conservation of mass applies to chemical changes. (*and physical changes.*)