Guided Reading Chapter 3-1 **Properties of Matter**

- 1. What is matter?
- 2. Define pure substance.
- 3. Why is pure water considered a substance but tap water or seawater are not?
- 4. Name the common states of matter.
- 5. What's a solid? Draw a particle diagram showing the arrangement of atoms within a solid.

- 6. According to the test, what does incompressible mean?
- 7. What is a liquid? Draw a particle diagram showing the arrangement of atoms within a liquid.

- 8. How are liquids and solids alike? (hint two ways)
- 9. What's a gas? Draw a particle diagram showing the arrangement of atoms within a gas.
- 10. Differentiate between a gas a vapor.
- 11. What is a physical property? Give 3 examples of physical properties used to identify a substance.
- 12. Examine Table 1. Identify the substance by its physical properties
 - a. A colorless liquid, with a density of 0.997g/mL
 - b. A white, solid, dissolves easily in water, has a high melting point.
- 13. What's a chemical property?
- 14. What two conditions can affect the physical and chemical properties of a substance?
- 15. Complete Section Review #3