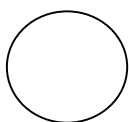


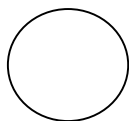
Name _____ Date _____ Period _____

Chemistry Foundations Ws #2: Matter

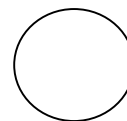
1. What is matter? Of what is matter composed?
2. Draw an "atom" picture of a solid, a liquid and a gas. Describe the essential differences between them.



Solid

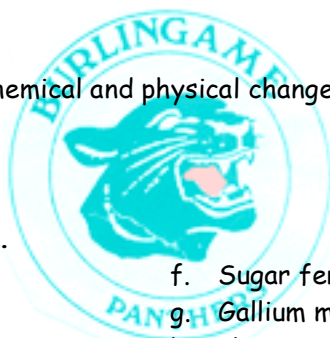


Liquid



Gas

3. What is the difference between a chemical and a physical property?
4. What is the difference between a chemical and physical change?



Use the following list for questions 5-9.

- a. Table salt dissolves in water
 - b. Water boils at 100°C .
 - c. You bake a cake.
 - d. A tree is struck by lightning.
 - e. A diamond is very hard
 - f. Sugar ferments to form alcohol.
 - g. Gallium metal melts in your hand.
 - h. Platinum does not react with oxygen at 25°C
 - i. A silver tea set gets black with tarnish over time.
 - j. Hydrogen peroxide fizzes when applied to a wound.
5. Which letters represent a chemical property?
 6. Which letters represent a physical property?
 7. Which letters represent a chemical change?
 8. Which letters represent a physical change?
 9. Copper is a reddish-brown metal that is easily stretched to make wires. Are these characteristics examples of physical or chemical properties of copper?
 10. When copper metal is heated in concentrated nitric acid, the copper dissolves to form a deep blue solution, and a brown gas is evolved from the acid. Are these characteristics examples of physical or chemical changes?