## Physical, Chemical, and States of Matter A

Classify each property below in 1-6 as physical or chemical by circling (P) or (C).

- 1. (P)(C)Copper may be drawn into a thin wire.
- 2. (P)(C)Iron combines easily with oxygen to form rust.
- 3. (P)(C)Glass is not flammable.
- 4. (P)(C)Sugar is soluble in water.
- 5. (P)(C)When mixed with vinegar, baking soda reacts to form bubbles of carbon dioxide.
- 6. (P)(C)Copper has a density of 9.2 g/cc.

7. Which of these best describes a chemical change?a)The substance changes how it looks.b)A new substance is formed.

c)The substance changes state or form.

d)The substance dissolves in another substance.

8. Which of these describes a physical change?a)No new substances are formedb)A chemical reaction occurs.c)A new substance formsd) An odor is given off.

9.(Y)(N)Jim and Mary mix two different liquids together in a beaker. The liquids fizz and change color. Is it likely that a chemical change happened?

10. Which best describes a solid?a)definite volume and shapeb)definite volume but not a definite shapec)neither a definite volume nor a definite shape

11. Which best describes a liquid?a)definite volume and shapeb)definite volume but not a definite shapec)neither a definite volume nor a definite shape

12. Which best describes a gas?a)definite volume and shapeb)definite volume but not a definite shapec)neither a definite volume nor a definite shape

13.(T)(F)The particles of water vapor move faster than the particles of liquid water move.

14. Which best describes a characteristic property?a)A property that may be observed without changing into new substancesb)A property that may only be observed by forming a new substancec)A property that doesn't depend on the amount of a substance and may be used to identify it.

15. Describe the motion of particles in a solid as completely as you can.