

Assessment

Quiz**Section: What Is Chemistry?**

In the space provided, write the letter of the term or phrase that best answers the question.

- _____ 1. The study of matter and changes in matter best describes the science of
a. biology.
b. physics.
c. microbiology.
d. chemistry.
- _____ 2. The state of matter in which a material has definite shape and definite volume is the _____ state.
a. liquid
b. solid
c. gaseous
d. vaporousg
- _____ 3. The state of matter in which a material has a definite volume but no definite shape is the _____ state.
a. gaseous
b. liquid
c. elemental
d. solid
- _____ 4. The particles in a solid are
a. packed closely together.
b. very far apart.
c. free to move independently.
d. able to slide past each other.
- _____ 5. The melting of candle wax is classified as a physical change because it
a. produces no new substances.
b. transfers energy.
c. absorbs energy.
d. changes the chemical properties of wax.
- _____ 6. A physical change is observed when
a. ice melts.
b. milk sours.
c. silver tarnishes.
d. wood burns.

Quiz continued

- _____ 7. An example of a chemical change is
- a. sanding wood.
 - b. melting iron.
 - c. baking bread.
 - d. vaporizing gasoline.
- _____ 8. Which sentence represents the reaction that produces water from hydrogen and oxygen?
- a. Water minus hydrogen yields oxygen.
 - b. Hydrogen plus oxygen yields water.
 - c. Water minus oxygen creates hydrogen.
 - d. Water can be separated into hydrogen and oxygen.
- _____ 9. Burning ethanol (a type of alcohol) in oxygen produces carbon dioxide and water. Which sentence best represents this reaction?
- a. Ethanol plus carbon dioxide yields oxygen and water.
 - b. Water plus carbon dioxide yields ethanol and oxygen.
 - c. Carbon dioxide plus water yields ethanol plus oxygen.
 - d. Oxygen plus ethanol yields water and carbon dioxide.
- _____ 10. During a chemical change,
- a. energy is absorbed.
 - b. energy is released.
 - c. no energy change occurs.
 - d. Either (a) or (b), depending on the reaction.