

Skills Worksheet

Directed Reading B**Section: Chemical Properties** (pp. 90–95)**IDENTIFYING CHEMICAL PROPERTIES**

- _____ 1. A property of matter that describes its ability to change into new matter with different properties is known as a(n)
- a. chemical change.
 - b. physical change.
 - c. chemical property.
 - d. physical property.
- _____ 2. The chemical property that describes the ability of substances to change and form one or more new substances is called
- a. reactivity.
 - b. flammability.
 - c. density.
 - d. solubility.
- _____ 3. The ability of a substance to burn is a chemical property known as
- a. ductility.
 - b. flammability.
 - c. density.
 - d. solubility.
- _____ 4. An iron nail is reactive with
- a. rubbing alcohol.
 - b. other iron nails.
 - c. wood in a house.
 - d. oxygen in the air.
- _____ 5. Which of the following statements is true about characteristic properties of matter?
- a. Characteristic properties depend on the size of the sample.
 - b. Characteristic properties may be either physical or chemical properties.
 - c. Characteristic properties involve only chemical properties.
 - d. Characteristic properties involve only the physical nature of the matter.

6. Describe how burning changes the nature of wood.

7. Observing the _____ properties of a substance involves changing the identity of the substance.
8. The properties that are most useful in identifying a substance are called _____ properties.

Directed Reading B *continued*

CHEMICAL CHANGES AND NEW SUBSTANCES

- _____ **9.** Chemical changes are the processes by which substances
- a.** move from place to place.
 - b.** change into new substances.
 - c.** change their physical properties.
 - d.** become greater in mass.

- _____ **10.** Which of the following would NOT be considered an example of a chemical change?
- a.** the bubbling action of effervescent tablets
 - b.** the formation of green coating on copper statues
 - c.** the melting of an ice cream bar
 - d.** the burning of rocket fuel

- 11.** How do you know that baking a cake involves chemical changes?

- 12.** List some signs or clues that show that a change you are observing is a chemical change.

- 13.** An increase in the surrounding temperature is felt when a chemical change _____ heat.

- 14.** A decrease in the surrounding temperature is felt when a chemical change _____ heat.

- 15.** Because _____ changes cause a change in the identity of the substances involved, they are hard to reverse.