Name	Class	Date
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.

c. chemical property.

b. physical change.

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.

c. density.

b. flammability.

d. solubility.



3. The ability of a substance to burn is a chemical property known as

a. ductility.

c. density.

b. flammability.

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.

Burning of wood is a chemical reaction in which the sugar (hexagon molecules) of C6H12O6 are combusted into CO2 (carbon dioxide) and H2O (water).

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.

Nan	ne Date
D	rected Reading B continued
СН	EMICAL CHANGES AND NEW SUBSTANCES
<mark>b</mark>	 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? The cake batter changes color, it expands with
	Carbon dioxide from the combustion of some of the sugar.
12.	List some signs or clues that show that a change you are observing is a chemical change. A change in color, odor, and fizzing and foaming and explosion or fire.
13.	An increase in the surrounding temperature is felt when a chemical
14.	changeheat. A decrease in the surrounding temperature is felt when a chemical
	change heat.
15.	Becauseirreversible chemical changes cause a change in the identity of
	the substances involved, they are hard to reverse.