Name _____ Class_____Date_____

Skills Worksheet

Directed Reading A

Section: Forming New Substances

1. The color of leaves that contain chlorophyll is _____.
2. Why are leaves orange and yellow in the fall?

_____

_____

_____

CHEMICAL REACTIONS

_____ 3. Which of the following names the process by which chlorophyll breaks down into new substances?

a. chemical substance
b. chemical reaction
c. chemical mixture
d. chemical solution

4. A process in which one or more substances change to form new substances is called a(n) _____.
5. How do the properties of the new substances compare with the properties of the original substances after a chemical change takes place?

_____

_____

_____

6.A solid substance that is formed in a solution is called a(n) _____.

Match the correct example of a chemical reaction with the correct clue. Write the letter in the space provided.

_____ 7. thermal energy produced by a fire

_____ 8. precipitate

_____ 9. bubbles

_____ 10. white spots caused by bleach

a. color change
b. energy change
c. solid formation
d. gas formation

11. What can you conclude is happening if a reaction has more than one of the signs mentioned above?

_____

_____

_____

12. What is the most important sign that a chemical reaction is occurring?

_____

_____

_____

13. When a gas is given off as a liquid boils, it is an example of a

_____ change, not a _____ reaction.

BONDS: HOLDING MOLECULES TOGETHER

14. What is a chemical bond?

_____

_____

_____

15. What is the relationship between a chemical reaction and the making and breaking of chemical bonds?

_____

_____

_____

_____

16. What makes chemical bonds break?

_____

_____

_____

_____

17. How many atoms make up a diatomic molecule?

_____