

Directed Reading A

Section: Types of Chemical Reactions

- _____ 1. Which of the following is NOT a type of chemical reaction?
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|------------------|-------------------------|
| a. synthesis | c. single-displacement |
| b. decomposition | d. double-decomposition |
2. What do all four types of reactions have in common?

SYNTHESIS REACTIONS

3. When two or more substances combine to form one new compound, it is called a(n) _____.

DECOMPOSITION REACTIONS

4. When a single compound breaks down to form two or more simpler substances, it is called a(n) _____.

SINGLE-DISPLACEMENT REACTIONS

5. When an element replaces another element in a compound, it is called a(n) _____.

6. How is a person who cuts in on a dancing couple like a single-replacement reaction?

7. In a single-displacement reaction, a(n) _____ reactive element can replace a(n) _____ reactive element from a compound.

8. Most single-displacement reactions involve _____.

Directed Reading A *continued*

DOUBLE-DISPLACEMENT REACTIONS

9. In a double-displacement reaction, a(n) _____, or a(n) _____ forms from the exchange of ions between two compounds.

Match the correct description with the correct term. Write the letter in the space provided.

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|---|------------------------|
| _____ 10. Zinc reacts with hydrochloric acid to form zinc chloride and hydrogen. | a. decomposition |
| _____ 11. Carbonic acid decomposes to form water and carbon dioxide. | b. double-displacement |
| _____ 12. Sodium reacts with chlorine to form sodium chloride. | c. single-displacement |
| _____ 13. Sodium fluoride and silver chloride are formed from the reaction of sodium chloride with silver fluoride. | d. synthesis |