

Chemical Reactions

◆ Multiple Choice

Write the letter of the correct answer on the line at the left.

- _____ 1. A change in matter that produces new substances is called a
a. chemical reaction. b. physical change.
c. mixture. d. solution.
- _____ 3. A number that is written smaller and lower than the letter symbols in a chemical formula and that shows how many atoms of a substance are in a molecule is called a(n)
a. coefficient. b. element.
c. subscript. d. superscript.
- _____ 4. The rate of a chemical reaction can be decreased by increasing
a. temperature. b. surface area of reactants.
c. amount of inhibitor. d. concentration of reactants.
- _____ 5. In a balanced chemical equation, both sides should have the same
a. number of molecules. b. number of atoms.
c. number of coefficients. d. number of subscripts.
- _____ 6. If a reaction absorbs energy, it is called a(n)
a. replacement reaction. b. decomposition reaction.
c. endothermic reaction. d. exothermic reaction.
- _____ 7. When two or more substances combine to form a more complex substance, the process is called a
a. decomposition reaction. b. replacement reaction.
c. synthesis reaction. d. physical change.
- _____ 8. The number in front of a chemical formula that tells how many molecules or atoms of each reactant take part in a reaction is called the
a. symbol. b. subscript.
c. coefficient. d. concentration.