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.