## Chemical Equations and Reactions

#### SECTION 2

SHORT ANSWER Answer the following questions in the space provided.

1. Match the equation type on the left to its representation on the right,

\_\_\_ synthesis

(a) AX + BY → AY + BX

\_\_\_d \_\_\_ decomposition

(b)  $A + BX \rightarrow AX + B$ 

b single-displacement

(c) A + B → AX (d) AX → A + X

- \_a\_\_ double-displacement
- In the reaction described by the equation 2Al(s) + 3Fe(NO<sub>5</sub>)₂(aq) → 3Fe(s) + 2Al(NO<sub>5</sub>)₂(aq), iron has been replaced by
  - (a) nitrate. (c) aluminum.
  - (b) water.

(d) nitrogen.

- Of the following chemical equations, the only reaction that is both synthesis and combustion is
  - (a) C(s) + O<sub>2</sub>(g) → CO<sub>2</sub>(g).
  - (b)  $2C_4H_{10}(I) + 13O_2(g) \rightarrow 8CO_2(g) + 10H_2O(I)$ .
  - (c)  $6CO_2(g) + 6H_2O(g) \rightarrow C_6H_{12}O_6(aq) + 6O_2(g)$ .
  - (d)  $C_6H_{12}O_6(aq) + 6O_2(g) \rightarrow 6CO_2(aq) + 6H_2O(l)$ .
- \_\_b\_\_ Of the following chemical equations, the only reaction that is both combustion and decomposition is
  - (a) S(s) + O<sub>2</sub>(g) → SO<sub>2</sub>(g).
  - (b) 2C<sub>4</sub>H<sub>10</sub>(I) + 13O<sub>2</sub>(g) → 8CO<sub>2</sub>(g) + 10H<sub>2</sub>O(I).
  - (c)  $2H_2O_2(I) \rightarrow 2H_2O(I) + O_2(g)$ .
  - (d)
- Identify the products when the following substances decompose:
  - a. Its separate elements \_\_\_\_\_ a binary compound
  - b. Metal oxide + water \_\_\_\_\_ most metal hydroxides
  - c. Metal oxide + carbon dioxide a metal carbonate
  - d. Water + sulfur dioxide the acid H<sub>2</sub>SO<sub>3</sub>
- The complete combustion of a hydrocarbon in excess oxygen yields the products

# **Review Chemical Equations And Reactions Section 4**

**S Ashworth** 

## **Review Chemical Equations And Reactions Section 4:**

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