

Name _____ Period _____

Directions: Write and balance the chemical equation (including states) indicated by the sentence and indicate the type of chemical reaction.

1.) Aqueous silver nitrate is mixed with aqueous calcium chloride to form solid silver chloride and aqueous calcium nitrate.

Equation:

Type of reaction:

2.) Solid sodium reacts with aqueous iron(III) chloride to produce solid iron and aqueous sodium chloride.

Equation:

Type of reaction:

3.) Water reacts with carbon dioxide gas to produce aqueous carbonic acid(H_2CO_3).

Equation:

Type of reaction:

4.) Gaseous pentane(C_5H_{12}) reacts with oxygen gas to produce carbon dioxide gas and water vapor.

Equation:

Type of reaction:

5.) Aqueous zinc chloride reacts with dihydrogen monosulfide gas to yield a zinc sulfide precipitate and hydrochloric acid($\text{HCl}(\text{aq})$)

Equation:

Type of reaction:

6.) Solid iron(III)oxide reacts with solid aluminum metal to produce solid aluminum oxide and solid iron.

Equation:

Type of reaction:

7.) Carbon monoxide gas reacts with oxygen gas to produce carbon dioxide gas.

Equation:

Type of reaction:

8.) Solid sodium hydroxide breaks down into solid sodium oxide and water vapor.

Equation:

Type of reaction:

9.) Aqueous nickel(III) nitrate reacts with chromium metal to produce chromium(II) nitrate solution and solid nickel.

Equation:

Type of reaction:

10.) Solid iron(III) oxide reacts with water to form aqueous iron(III) hydroxide.

Equation:

Type of reaction: