Types of Reactions Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***List what type the following reactions are: (Synthesis, Decomposition, Single Replacement, Double Replacement, or Combustion)***

1. NaOH + KNO3  NaNO3 + KOH \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. CH4 + 2 O2 CO2 + 2 H2O \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 2 Fe + 6 NaBr 2 FeBr3 + 6 Na \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. CaSO4 + Mg(OH)2 Ca(OH)2 + MgSO4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Pb + O2  PbO2  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Na2CO3 Na2O + CO2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. C3H8 + 5O2 3CO2 + 4H2O \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. 2NaCl 2Na + Cl2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. 3Mg + N2  Mg3N2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. BaCl2 + MgSO4 BaSO4 + MgCl2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Complete each of the following word equations, write formulas for and balance the chemical reaction equation.***

**Synthesis Reaction: A + B → AB**

1. Silver + oxygen
2. Sodium + Chlorine
3. Nitrogen + Hydrogen

**Decompostion Reaction: AB → A + B**

1. Potassium chlorate
2. Mercury (II) oxide
3. Aluminum hydroxide

**Single Replacement Reaction: A + BC → AC + B**

1. Lithium + Sodium chloride
2. Hydrogen carbonate + Sodium
3. Potassium + Silver chloride

**Double Replacement Reaction: AB + CD → CB + AD**

1. Sodium chloride + Silver nitrate
2. Potassium hydroxide + Hydrogen nitrate
3. Barium oxide + Hydrogen sulfate

**Combustion Reaction: CXHY + O2 → CO2 + H2O**

1. Tetracarbon Decahydride + Oxygen
2. Naphthalene (C10H8) + Oxygen
3. Carbon + Oxygen