Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reaction Types and Balancing

Give the five reaction types and define them:

1.

2.

3.

4.

5.

Balance and determine the reaction type for the following:

1. KCl(aq) + AgNO3(aq) 🡺 KNO3 + AgCl

Reaction type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Ni(II) + FeCl2(aq) 🡺 Ni Cl2 + Fe

Reaction type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. N2 + Na 🡺 NaCl

Reaction type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. BaCl2(aq) + NaOH(aq) 🡺 Ba(OH)2 + NaCl

Reaction type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. MgCO3(s) 🡺 MgO + CO2

Reaction type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. H2 + Cl2 🡺 HCl

Reaction type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. KI(aq) + Cl2 🡺 KCl + I2

Reaction type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. K2S (s) 🡺 K + S

Reaction type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. C3H8 + O2 🡺 CO2 + H2O

Reaction type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. Al + Cu(NO3)2(aq) 🡺 Cu + Al(NO3)3

Reaction type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. AgNO3(aq) + Sn(II) 🡺 Ag + Sn(NO3)2

Reaction type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. Pb(NO3)2(aq) + Na2SO4(aq) 🡺 PbSO4 + Na NO3

Reaction type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Cu(OH)2(s) 🡺 CuO + H2O

Reaction type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Mg + HCl(aq) 🡺 H2 + MgCl2

Reaction type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. C6H14 + O2 🡺 CO2 + H2O

Reaction type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. H2O(l) + SO3(g) 🡺 H2 SO4

Reaction type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_