**TYPES OF REACTIONS**

1.) Predict the products for each of the following ADDITION rxns.

a.) Mg(s) + I2(g) 🡪



b.) CaO(s) + H2O(l) 🡪





c.) CO2(g) + H2O(l) 🡪 + 🡪

d.) Al(s) + O2(g) 🡪

e.) Na2O(s) + H2O(l) 🡪

2.) Predict the products for each of the following DECOMPOSITION rxns

a.) MgCl2(s) 🡪







b.) BeCO2(s) 🡪

c.) H2CO3(s) 🡪 🡪 +

d.) LiHCO3(s) 🡪

e.) K3N(s) 🡪

3.) Predict the products for each of the following SINGLE DISPLACMENT rxns

a.) H2(g) + SnO(aq) 🡪









b.) K(s) + Zn(NO3)2(aq) 🡪

c.) Cl2(g) + NaBr(aq) 🡪 + 🡪 +

d.) Ba(s) + H2O(l) 🡪

e.) Cu(s) + HCl(aq) 🡪

4.) Predict the products for each of the following DOUBLE DISPLACEMENT rxns. Show the **states**.

a.) (NH4)2S(aq) + AlCl3(aq) 🡪





b.) Ba(OH)2(aq) + Li3PO4(aq) 🡪

c.) Pb(NO3)2(aq) + Na2SO4(aq) 🡪 + 🡪 +

d.) K2CO3(aq) + MgS(aq) 🡪

e.) Sr(OH)2(aq) + Rb2SO4(aq) 🡪





5.) Predict the products for each of the following COMBUSTION rxns + O2 🡪

a.) complete combustion: CH4 + O2 🡪

b.) complete combusiton: C2H2 + O2 🡪

c.) incomplete combusiton: CH3OH + O2 🡪

6.) Predict the products for each reaction below and state the type of reaction. All reaction types are represented.

a.) Ba(NO3)2(aq) + Na2SO4(aq) 🡪 Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b.) Cu(s) + O2(g) 🡪 Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c.) Ni(s) + H2SO4(aq) 🡪 Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d.) Zn(s) + F2(g) 🡪 Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

e.) LiHCO3(s) 🡪 Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

f.) Ca(s) + H2O(l) 🡪 Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

g.) Al2O3(s) + H2O(l) 🡪 Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

h.) MgO(s) 🡪 Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

i.) Sr(OH)2(aq) + Ca(NO­3)2(aq) 🡪 Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

j.) Br2(g) + CaI2(aq) 🡪 Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

k.) Au(s) + H3PO4(aq) 🡪 Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_