**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class:\_\_\_\_\_\_\_**

* ***Can I describe chemical reactions and represent them by using chemical formulas?***

Classify and balance the following equations:

 Type of Chemical Reaction

1. \_\_\_Cu(s)  + \_\_\_\_O2(g)  \_\_\_CuO(s)  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_H2O(l) \_\_\_H2(g) + \_\_\_O2(g)  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_Fe(s) + \_\_\_H2O(g) \_\_\_\_H2(g) + \_\_\_\_ Fe3O4(s) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_AsCl3(aq) + \_\_\_H2S(aq)  \_\_\_\_As2S3(s) + \_\_\_\_HCl (aq) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. \_\_\_CuSO4 •5H2O(s)  \_\_\_\_CuSO4(s) + \_\_\_\_H2O(g) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. \_\_\_Fe2O3(s) + \_\_\_H2(g) \_\_\_\_Fe(s) + \_\_\_\_H2O(l) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. \_\_\_CaCO3(s) \_\_\_\_CaO(s) + \_\_\_\_CO2(g) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. \_\_\_Fe(s) + \_\_\_S8(s) \_\_\_FeS(s) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. \_\_\_H2S(aq) + \_\_\_\_KOH(aq) \_\_\_HOH(l) + \_\_\_K2S(aq) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. \_\_\_NaCl(l) \_\_\_Na(l) + \_\_\_ Cl2(g) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. \_\_\_ Al(s) + \_\_\_H2SO4(aq) \_\_\_H2(g) + \_\_\_Al2(SO4)3(aq) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
12. H3PO4(aq) + \_\_\_NH4OH(aq) \_\_\_HOH(l) + \_\_\_(NH4)3PO4(aq) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
13. \_\_\_C3H8(g) + \_\_\_O2(g) \_\_\_CO2(g) + \_\_\_H2O(g) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
14. \_\_\_Al(s) + \_\_\_O2(g) \_\_\_Al2O3(s) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
15. \_\_\_CH4(g) + \_\_\_O2(g) \_\_\_CO2(g) +\_\_\_H2O(g) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_