Name:			
Blk:	_Date:_		

Chemistry 11 Predicting Products Practice

1. **Complete** and **balance** the following reactions, be sure to include the **phases** of the products!

a.
$$H_2SO_4$$
 (aq) + $Ca(OH)_2$ (aq) \rightarrow

b. AgNO₃ (aq) + NaCl (aq)
$$\rightarrow$$

c.
$$H_3PO_4$$
 (aq) + $Ba(OH)_2$ (aq) \rightarrow

d.
$$Zn(NO_3)_2$$
 (aq) + Li_2S (aq) \rightarrow

e.
$$H_2SO_3$$
 (aq) + Fe(OH)₃ (aq) \rightarrow

f.
$$Na_2S(aq) + Ba(NO_3)_2(aq) \rightarrow$$

2. **Complete** and **balance** the following chemical equations, be sure to **classify the type** and include **phases** in your answer:

a.
$$H_2CO_3$$
 (aq) + $Sr(OH)_2$ (aq) \rightarrow

b.
$$Zn(s) + Ni(NO_3)_2(aq) \rightarrow$$

c. (forms a solid): Al (s) + Cl₂ (g)
$$\rightarrow$$

d.
$$SO_2(g) \rightarrow$$

e.
$$C_9H_{20}O_4N_2$$
 (s) + O_2 (g) \rightarrow

f. (forms a solid):
$$Zn(s) + Cl_2(g) \rightarrow$$

g. HCl (aq) + KOH (aq)
$$\rightarrow$$

h.
$$Na_3PO_4$$
 (aq) + $Ca(OH)_2$ (aq) \rightarrow

i. Mg (s) + ZnSO₄ (aq)
$$\rightarrow$$