Name: _____

Date: _____ Per: _____

Chemistry
Identifying Reactions WS

I. *For each of the following reactions, identify the type and write chemical formulas for each of the compounds:*

Reaction	Type
1. iron (II) chloride + chlorine gas → iron (III) chloride	
2. zinc sulfide + oxygen → zinc oxide + sulfur dioxide	
3. silver nitrate + nickel → silver + nickel (II) nitrate	
4. lead (II) nitrate + sodium carbonate → lead (II) carbonate + sodium nitrate	
5. barium hydroxide + iron (III) sulfate → barium sulfate + iron (III) hydroxide	
6. mercury (II) nitrate → mercury (II) oxide + nitrogen dioxide + oxygen	
7. copper + sulfuric acid → copper (II) sulfate + water + sulfur dioxide	

II. *For each of the following reactions, identify the type and write the names of each of the compounds:*

Reaction	Type
8. $HgO \rightarrow Hg + O_2$	
9. $CH_4 + O_2 \rightarrow CO_2 + H_2O$	
10. $NH_4NO_3 \rightarrow N_2O + H_2O$	
11. $Mg_3P_2 + H_2O \rightarrow PH_3 + Mg(OH)_2$	
12. $ZnSO_4 + NaOH \rightarrow Zn(OH)_2 + Na_2SO_4$	
13. $TiCl_4 + Mg \rightarrow Ti + MgCl_2$	
14. $P_4O_{10} + H_2O \rightarrow H_3PO_4$	
15. $NaHCO_3 \rightarrow Na_2CO_3 + H_2O + CO_2$	