OBJWS CHEMICAL EQUATIONS AND REACTIONS CHEMISRY 1 HON

- 1. What is a skeleton chemical equation?
- 2. What is a chemical equation?
- 3. What does (aq) mean in a chemical equation?
- 4. What does -----> mean in a chemical equation?
- 5. What is a catalyst? Give an example of one.
- 6. Below are word equations. Write the chemical equations using formulas and equation symbols.
 - a. When zinc reacts with hydrochloric acid, it forms hydrogen gas and zinc chloride.
 - b. Sulfur dioxide is formed when sulfur and oxygen react with the addition of heat.
 - c. Rust, iron (III) oxide, is formed when iron and _____ react together.
- 7. List the five types of chemical equations.

<u>8.</u> BALANCE THESE EQUATIONS

- a. $H_2SO_4 + KOH --- \rightarrow HOH + K_2SO_4$
- b. $Zn(MnO_4)_2 + Cr_2(SO_4)_3 - \rightarrow ZnSO_4 + Cr(MnO_4)_3$
- c. $Li + CuCO_3 - \rightarrow Cu + Li_2CO_3$
- d. $C_8H_{18} + O_2 - \rightarrow CO_2 + H_2O$
- e. $Sr + O_2 -- \rightarrow SrO$
- f. $AgCl \dots \rightarrow Ag + Cl_2$
- g. NaCl + H₂S --- \rightarrow Na₂S + HCl
- h. $C_6H_{10} + O_2 --- \rightarrow CO_2 + H_2O$

9. PREDICT PRODUCTS AND BALANCE

- $a. \quad Ca + H_3PO_4 --- \rightarrow$
- b. $Fe + Zn(OH)_2 --- \rightarrow$
- d. MgCO₃ ---→
- e. $C_2H_5 + O_2 --- \rightarrow$
- f. K + S ---→
- g. $K + Cl_2 --- \rightarrow$
- h. $C + O_2 --- \rightarrow$
- i. $Mg + H_3PO_4 --- \rightarrow$
- j. $FeS + Co(C_2H_3O_2)_3 --- \rightarrow$
- k. NaCl + $H_2SO_4 --- \rightarrow$
- I. $Fe_2O_3 --- \rightarrow$