**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per.:\_\_\_\_\_\_\_**

**Questions**

Fill in the blanks below as you go though the game.  This is so I have a record that you did your assignment.

1.   \_\_\_\_\_ Fe  +  \_\_\_\_\_ S  -->  \_\_\_\_\_ FeS

2.  \_\_\_\_\_ H2   +  \_\_\_\_\_ Cl2  -->  \_\_\_\_\_ HCl

3. \_\_\_\_\_ Mg  +  \_\_\_\_\_ O2  -->   \_\_\_\_\_  MgO

4. \_\_\_\_\_ O2  +  \_\_\_\_\_  H2 -->   \_\_\_\_\_ H2O

5. \_\_\_\_\_ HgO -->  \_\_\_\_\_ Hg  +  \_\_\_\_\_  O2

6. \_\_\_\_\_ Ca  +  \_\_\_\_\_  H2O  -->  \_\_\_\_\_  Ca(OH)2  +   \_\_\_\_\_ H2

7.  \_\_\_\_\_  CH4  +  \_\_\_\_\_  O2  -->   \_\_\_\_\_ CO2  +  \_\_\_\_\_ H20

8.  \_\_\_\_\_  Na2O2  +   \_\_\_\_\_  H2SO4  -->   \_\_\_\_\_  Na2SO4  +   \_\_\_\_\_  H2O2

9. \_\_\_\_\_  N2  +   \_\_\_\_\_  H2  -->   \_\_\_\_\_  NH3

10.   \_\_\_\_\_  Al  +   \_\_\_\_\_  O2  -->   \_\_\_\_\_  Al2O3

11.  \_\_\_\_\_  KMnO4  -->   \_\_\_\_\_  K2O  +   \_\_\_\_\_   MnO  +   \_\_\_\_\_  O2

Draw the molecules just like the program did to figure out the answer to #12 .

12.  \_\_\_\_\_  Na  +   \_\_\_\_\_  H2O  -->   \_\_\_\_\_  NaOH  +   \_\_\_\_\_  H2

**Analysis/Results:**

1. What does "-->" mean?

2. What side of the equation are the **reactants** found? \_\_\_\_\_\_\_ **products**? \_\_\_\_\_\_\_

3. Why must all chemical equations be balanced?

4. Why **can't** the subscripts be changed?

5. What does it mean to "simplify" the equation?

**Conclusion**: On the back of this page 4-6 sentences on what you learned.