























**Classifying Reactions and Balancing Chemical Equations**

For each of the chemical reactions are listed below, complete the following:

-  Balance the skeletal equation
-  The type of chemical reaction

1.  Balance the skeletal equation:  $\text{___ Cu} + \text{___ O}_2 \rightarrow \text{___ CuO}$   
 Reaction type: \_\_\_\_\_
2.  Balance the skeletal equation:  $\text{___ H}_2\text{O} \rightarrow \text{___ O}_2 + \text{___ H}_2$   
 Reaction type: \_\_\_\_\_
3.  Balance the skeletal equation:  $\text{___ Fe} + \text{___ H}_2\text{O} \rightarrow \text{___ Fe}_2\text{O}_3 + \text{___ H}_2$   
 Reaction type: \_\_\_\_\_
4.  Balance the skeletal equation:  $\text{___ H}_2\text{S} + \text{___ AsCl}_3 \rightarrow \text{___ As}_2\text{S}_3 + \text{___ HCl}$   
 Reaction type: \_\_\_\_\_
5.  Balance the skeletal equation:  $\text{___ CaCO}_3 \rightarrow \text{___ CO}_2 + \text{___ CaO}$   
 Reaction type: \_\_\_\_\_
6.  Balance the skeletal equation:  $\text{___ H}_2\text{S} + \text{___ KOH} \rightarrow \text{___ K}_2\text{S} + \text{___ HOH}$   
 Reaction type: \_\_\_\_\_
7.  Balance the skeletal equation:  $\text{___ S}_8 + \text{___ Fe} \rightarrow \text{___ FeS}$   
 Reaction type: \_\_\_\_\_
8.  Balance the skeletal equation:  $\text{___ H}_2\text{SO}_4 + \text{___ Al} \rightarrow \text{___ Al}_2(\text{SO}_4)_3 + \text{___ H}_2$   
 Reaction type: \_\_\_\_\_
9.  Balance the skeletal equation:  $\text{___ H}_3\text{PO}_4 + \text{___ NH}_4\text{OH} \rightarrow \text{___ (NH}_4)_3\text{PO}_4 + \text{___ HOH}$   
 Reaction type: \_\_\_\_\_
10.  Balance the skeletal equation:  $\text{___ O}_2 + \text{___ Al} \rightarrow \text{___ Al}_2\text{O}_3$   
 Reaction type: \_\_\_\_\_