




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: _____