























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: _____
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