

Chapter Nine Balancing and Identifying Chemical Equations

Balance the following equations and determine what type of reaction each one represents.

<u>Equation</u>	<u>Type of Reaction</u>
1. $\underline{\quad} \text{FeS} + \underline{\quad} \text{HCl} \rightarrow \underline{\quad} \text{FeCl}_2 + \underline{\quad} \text{H}_2\text{S}$	_____
2. $\underline{\quad} \text{CH}_4 + \underline{\quad} \text{O}_2 \rightarrow \underline{\quad} \text{CO}_2 + \underline{\quad} \text{H}_2\text{O}$	_____
3. $\underline{\quad} \text{H}_2\text{SO}_3 \rightarrow \underline{\quad} \text{H}_2\text{O} + \underline{\quad} \text{SO}_2$	_____
4. $\underline{\quad} \text{AgNO}_3 + \underline{\quad} \text{KCl} \rightarrow \underline{\quad} \text{KNO}_3 + \underline{\quad} \text{AgCl}$	_____
5. $\underline{\quad} \text{Mg} + \underline{\quad} \text{O}_2 \rightarrow \underline{\quad} \text{MgO}$	_____
6. $\underline{\quad} \text{C}_4\text{H}_8 + \underline{\quad} \text{O}_2 \rightarrow \underline{\quad} \text{CO}_2 + \underline{\quad} \text{H}_2\text{O}$	_____
7. $\underline{\quad} \text{Cl}_2 + \underline{\quad} \text{MgI}_2 \rightarrow \underline{\quad} \text{MgCl}_2 + \underline{\quad} \text{I}_2$	_____
8. $\underline{\quad} \text{Na} + \underline{\quad} \text{Cl}_2 \rightarrow \underline{\quad} \text{NaCl}$	_____
9. $\underline{\quad} \text{Fe} + \underline{\quad} \text{O}_2 \rightarrow \underline{\quad} \text{Fe}_2\text{O}_3$	_____
10. $\underline{\quad} \text{Cl}_2 + \underline{\quad} \text{LiI} \rightarrow \underline{\quad} \text{LiCl} + \underline{\quad} \text{I}_2$	_____
11. $\underline{\quad} \text{NH}_4\text{NO}_2 \rightarrow \underline{\quad} \text{N}_2 + \underline{\quad} \text{H}_2\text{O}$	_____
12. $\underline{\quad} \text{H}_2\text{O} \rightarrow \underline{\quad} \text{H}_2 + \underline{\quad} \text{O}_2$	_____
13. $\underline{\quad} \text{Al} + \underline{\quad} \text{Cl}_2 \rightarrow \underline{\quad} \text{AlCl}_3$	_____
14. $\underline{\quad} \text{PCl}_5 \rightarrow \underline{\quad} \text{PCl}_3 + \underline{\quad} \text{Cl}_2$	_____

Types of Reactions Worksheet

Balance the following equations and indicate the type of reaction taking place:



Type of reaction: _____



Type of reaction: _____



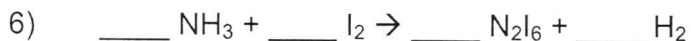
Type of reaction: _____



Type of reaction: _____



Type of reaction: _____



Type of reaction: _____



Type of reaction: _____



Type of reaction: _____