

Identifying Types of Reactions

Name

Key

Choose the correct symbol for the type of reaction. Write the symbol in the space provided.

S = Synthesis (Combination)

SD = Single Displacement

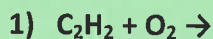
D = Decomposition

DD = Double Displacement

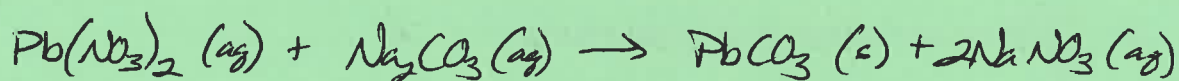
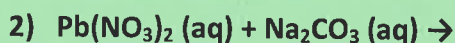
C = Combustion

- 1) SD $\text{Na (s)} + \text{H}_2\text{O (l)} \rightarrow \text{NaOH (aq)} + \text{H}_2 \text{ (g)}$
- 2) S $\text{CO (g)} + \text{O}_2 \text{ (g)} \rightarrow \text{CO}_2 \text{ (g)}$
- 3) DD $\text{FeS (s)} + \text{HCl (aq)} \rightarrow \text{FeCl}_2 \text{ (aq)} + \text{H}_2\text{S (g)}$
- 4) D $\text{NaNO}_3 \text{ (s)} \rightarrow \text{NaNO}_2 \text{ (s)} + \text{O}_2 \text{ (g)}$
- 5) C $\text{CH}_4 \text{ (g)} + \text{O}_2 \text{ (g)} \rightarrow \text{CO}_2 \text{ (g)} + \text{H}_2\text{O (g)}$
- 6) SD $\text{Fe (s)} + \text{CuNO}_3 \text{ (aq)} \rightarrow \text{Cu (s)} + \text{Fe(NO}_3)_2 \text{ (aq)}$
- 7) SD $\text{KI (aq)} + \text{Cl}_2 \text{ (g)} \rightarrow \text{KCl (aq)} + \text{I}_2 \text{ (s)}$
- 8) S $\text{Al (s)} + \text{S (s)} \rightarrow \text{Al}_2\text{S}_3 \text{ (s)}$
- 9) D $\text{KClO}_3 \text{ (s)} \rightarrow \text{KCl (s)} + \text{O}_2 \text{ (g)}$
- 10) C $\text{C}_4\text{H}_{10} \text{ (g)} + \text{O}_2 \text{ (g)} \rightarrow \text{CO}_2 \text{ (g)} + \text{H}_2\text{O (g)}$
- 11) DD $\text{CaCO}_3 \text{ (aq)} + \text{Pb(NO}_3)_2 \text{ (aq)} \rightarrow \text{PbCO}_3 \text{ (s)} + \text{Ca(NO}_3)_2 \text{ (aq)}$
- 12) D $\text{H}_2\text{O}_2 \text{ (aq)} \rightarrow \text{H}_2\text{O (l)} + \text{H}_2 \text{ (g)}$
- 13) S $\text{NH}_3 \text{ (g)} + \text{HCl (aq)} \rightarrow \text{NH}_4\text{Cl (aq)}$
- 14) SD $\text{Na (s)} + \text{H}_2\text{O (l)} \rightarrow \text{NaOH (aq)} + \text{H}_2 \text{ (g)}$

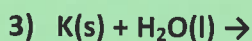
Identify the type of reaction and predict the products by writing out a complete chemical equation. If no reaction occurs, write "No Rxn".



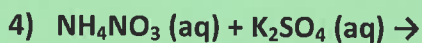
Type of Reaction: Combustion



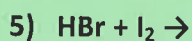
Type of Reaction: Double Displacement



Type of Reaction: Single Displacement



Type of Reaction: Double Displacement (No Rxn)



Type of Reaction: Single Displacement (No Rxn)