

Types of Chemical reaction

1. A synthesis is a type of chemical reaction in which two or more substances combine and form one compound

☐ True
☐ False

2. _____ reaction, one compound breaks down and forms two or more substances.

☐ Synthesis
☐ decomposition
☐ displacement
☐ combustion

3. Identify the synthesis reaction

☐ $\text{H}_2 + \text{Cl}_2 \rightarrow 2\text{HCl}$
☐ $2\text{H}_2\text{O} \rightarrow 2\text{H}_2 + \text{O}_2$
☐ $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$
☐ $\text{H}_2\text{O}_2 \rightarrow \text{H}_2 + \text{O}_2$

4. Identify the decomposition reaction

☐ $\text{H}_2 + \text{Cl}_2 \rightarrow 2\text{HCl}$
☐ $\text{C} + \text{O}_2 \rightarrow \text{CO}_2$
☐ $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$
☐ $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$

5. Type of chemical reaction in which two or more substances combine and form one compound

☐ Synthesis
☐ decomposition
☐ displacement
☐ combustion