

Summary of Reactions (5 Types)

1. Combination (synthesis) - 1 product (p. 276)
<http://www.youtube.com/watch?v=2mzDwgyk6QM>

Metal + nonmetal \rightarrow 1 ionic compound

Nonmetal + nonmetal \rightarrow 1 molecular compound



2. Decomposition - 1 reactant (p.)

a. Binary Compound



b. Metallic Carbonate \rightarrow metallic oxide + carbon dioxide



c. Metallic Chlorate \rightarrow metallic chloride + oxygen



d. Metallic hydroxide \rightarrow metallic oxide + water

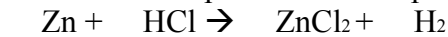


e. Metallic oxide \rightarrow metal + oxygen



3. Single Replacement (SR) -p.281, 285-287

Element + compound \rightarrow compound + element



4. Double Replacement

Compound + compound \rightarrow different compound + compound

Silver Nitrate + potassium iodide \rightarrow potassium nitrate + silver iodide



5. Combustion: $\text{CO}_2 + \text{H}_2\text{O}$ (products)

Hydrocarbon + oxygen \rightarrow carbon dioxide + water

