

Types of Chemical Reactions

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- 5 Types of Chemical Reactions:
 - Synthesis
 - Decomposition
 - Single Replacement
 - Double Replacement
 - Combustion

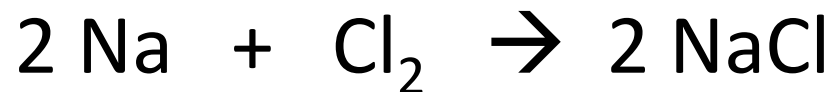
Synthesis

- Multiple reactants with one single product

Generalized Reaction:



Example:



Decomposition

- One single reactant with multiple products

Generalized Reaction:



Example:



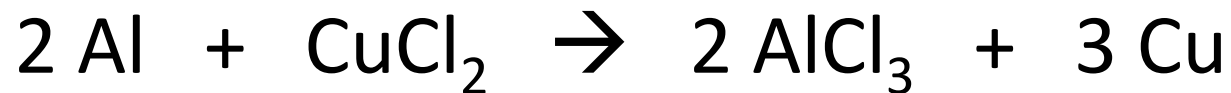
Single Replacement

- One free element replaces an element in the compound

Generalized Reaction:



Example:



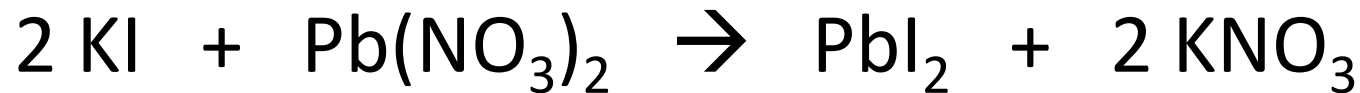
Double Replacement

- Exchange of ions between compounds (anion and anion switch places)

Generalized Reaction:



Example:



Combustion

- O_2 reacts with a second compound (which contains carbon and hydrogen) producing CO_2 and H_2O

Generalized Reaction:



Example:

