

Types of Chemical Reactions

*** There are several types of chemical reactions. We will discuss five main types.**

*** Combustion**

*** Synthesis**

*** Decomposition**

*** Single Displacement**

*** Double Displacement**

Combustion

- * When a substance reacts (burns) oxygen to produce an oxide
- * General Equation



HC stands for hydrocarbon, any combination of hydrogen and carbon

Combustion

- * Energy produced is usually heat or light
- * When energy is produced during a reaction we call it exothermic
- * Represent this as 'E' in equation

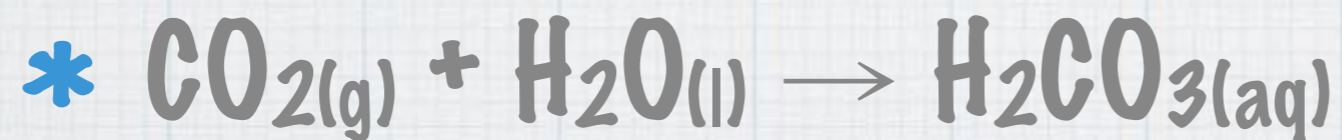
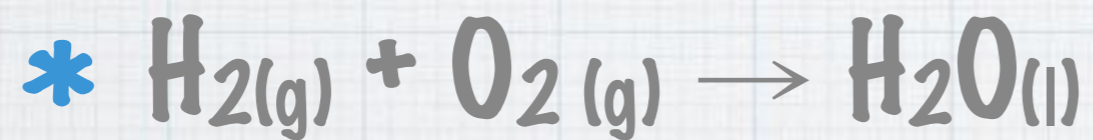
Synthesis

- * Synthesis reactions occur when there is a combination of smaller atoms/molecules into larger molecules
- * General Equation



Synthesis

* Examples:



Decomposition

- * Decomposition reactions occur when there is a splitting of large molecules into elements or smaller molecules.
- * General Equation



Decomposition

* Examples:



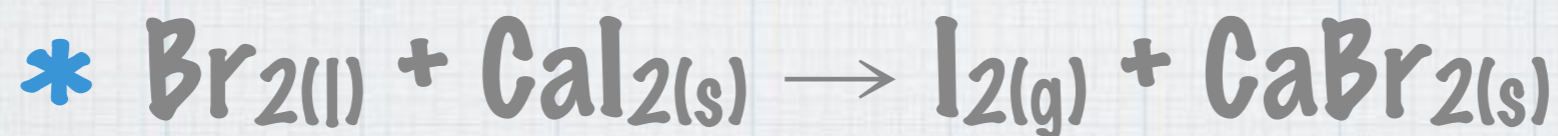
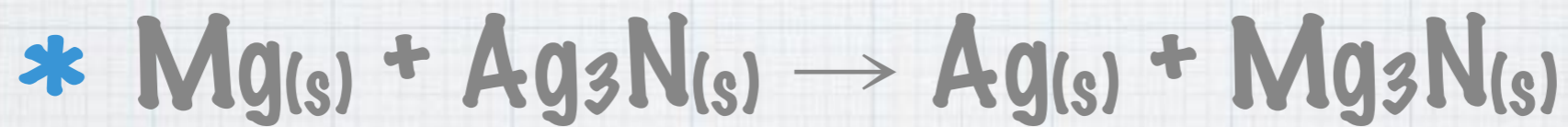
Single Displacement

- * A reaction in which one element displaces another element from a compound.
- * General Equation



Single Displacement

* Examples:



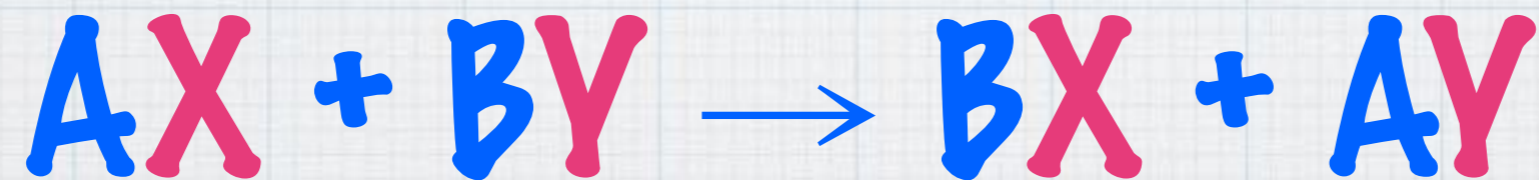
Single Displacement

* Examples:



Double Displacement

- * Involves two compounds as reactants. When elements in different compounds displace each other.
- * General Equation



Double Displacement

* Examples:

