

STM 005: General Chemistry 1

BALANCING CHEMICAL EQUATION & TYPES OF CHEMICAL REACTION

Why do we balance chemical reactions?

- During a chemical reaction, atoms cannot be created nor destroyed
- Chemical equation needs to be balanced so that it follows the Law of Conservation of Matter
- A balanced chemical equation occurs when the number of the different atoms of elements in the reactants side is equal to that of the products side
- Balancing chemical equations is a process of trial and error

How to balance chemical equations?

- The reactants and products in a chemical equation can be balanced as long as you know how to count the atoms
- The number of atoms of an element in the reactant side and the product side must be equal
- Count atoms of each element on the two sides of the equation
- Determine which atoms need to be balanced
- Balance the element by placing correct coefficient in front of the chemical formula

TYPES OF CHEMICAL REACTION & GENERAL EQUATION

Combination (synthesis)



- Two or more compounds combine to form one compound

Decomposition



- The opposite of a combination reaction – a complex molecule breaks down to make simpler ones

Single Displacement



- When an ion or element moves out of a compound, i.e., one element is replaced by the other in a compound

Double Displacement



- When a part of two ionic compounds is exchanged and makes two new components

Combustion



- Oxygens combines with a compound to form carbon dioxide and water. These reactions are exothermic, meaning they off heat

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