

Unit 2: Quantities in Chemical Reactions

4.1 Proportions in Compounds

Definitions:

- Law of definite proportions
- Stoichiometry

Carbon Monoxide

- CO is a product of incomplete combustion.
- A toxic gas since it bonds strongly to hemoglobin and replaces oxygen.

Carbon Dioxide

- CO₂ is a product of complete combustion.
- A compound that plants use for photosynthesis.
- A product of cellular respiration.
- Sublimes.

The Law of Definite Proportions

- A specific compound always contains the same elements in definite proportions by mass.
- Stoichiometry is the study of the relationships between the quantities of reactants and products involved in chemical reactions.

Homework

- Practice Questions 1,2,3,4,5,6,7
- Section Questions 1