

Chemistry Unit 3 Test Review

5.1 Mole and Avogadro's Constant

A **particle** is very small and can be:

- A single atom (Ca)
- A molecule with 2 or more atoms (molecular compound – H₂O)
- An ion with a positive or negative charge (CO₃²⁻)
- A formula unit with two or more ions (ionic compound – NaCl)

The Mole

- Chemists use the mole to represent a specific number of particles
- The number of particles it represents is called the Avogadro constant (6.02×10^{23} particles/mol)
- The unit for mole is mol

Definitions

1. **Mole:** One mole of any entity is 6.02×10^{23} of the particles (atom, molecule, ion formula unit); the symbol is n; the unit is mol
2. **Avogadro's constant:** The number of particles in one mole, 6.02×10^{23} ; the symbol is N_A; the unit is particles/mol
3. **Particles:**
 - Atom or element (Eg. Zn)
 - Molecule or covalent compound (Eg. H₂O)
 - Ions or monatomic/polyatomic ions (Eg. Zn⁺² and CO₃²⁻)
 - Formula unit or ionic compound (Eg. LiCl)

5.2 Molar Mass

Basics: The Mass and The Mole

- The mass of carbon-12 is 12 atomic mass unit (12 u). Every other element has mass relative to one atom of carbon-12
- 1 mole of carbon-12 = 6.02×10^{23} atoms of C-12 = 12g
- The average atomic mass of any element, in atomic mass units, is numerically equivalent to the mass of one mole of atoms (6.02×10^{23} atoms) of that element

Molar Mass: The mass of one mole of its particle – atoms, molecules, ions, or formula units, in grams per mole (g/mol)

6.1 Percentage Composition

Law of Definite Proportions:

- Elements in a chemical compound are always present in the same proportions by mass
- *Law of constant composition:* all molecules or formula units of a compound will have the same chemical composition

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