

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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The changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline The number of peer reviewed papers published in geomorphic journals has grown steadily for more than two decades and more importantly the diversity of authors with respect to geographic location and disciplinary background geography geology ecology civil engineering computer science geographic information science and others has expanded dramatically As more good minds are drawn to geomorphology and the breadth of the peer reviewed literature grows an effective summary of contemporary geomorphic knowledge becomes increasingly difficult The fourteen volumes of this *Treatise on Geomorphology* will provide an important reference for users from undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic Information on the historical development of diverse topics within geomorphology provides context for ongoing research discussion of research strategies equipment and field methods laboratory experiments and numerical simulations reflect the multiple approaches to understanding Earth s surfaces and summaries of outstanding research questions highlight future challenges and suggest productive new avenues for research Our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists comprehend the dynamics of Earth s diverse surfaces This *Treatise on Geomorphology* provides a useful synthesis of the state of the discipline as well as highlighting productive research directions that Educators and students researchers will find useful Geomorphology has advanced greatly in the last 10 years to become a very interdisciplinary field Undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding Editor in Chief Prof J F Shroder of the University of Nebraska at Omaha is past president of the QG G section of the Geological Society of America and present Trustee of the GSA Foundation while being well respected in the geomorphology research community and having won numerous awards in the field A host of noted international geomorphologists have contributed state of the art chapters to the work Readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the World expert Volume Editors and by the Editor in Chief himself No other reference work exists in the area of Geomorphology that offers the breadth and depth of information contained in this 14 volume masterpiece From the foundations and history of geomorphology through to geomorphological innovations and computer modelling and the past and future states of landform

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