

Chapter 7 – Chemical Quantities and Reactions

7.1 THE MOLE

Collection Term // States a specific number of items.

- 1 dozen donuts = 12 donuts
- 1 ream of paper = 500 sheets
- 1 case = 24 cans

Mole // A collection that contains the same number of particles as there are carbon atoms in 12.0 g of carbon: 6.02×10^{23} atoms of an element.

Avogadro's Number // 6.02×10^{23} atoms of an element.

- 1 mole = 6.02×10^{23} atoms/molecules & this is an equality
- Used to convert moles of a substance to particles
- SIG FIGS count

Subscripts and Moles

- The subscripts in a formula show...
 - The relationship of atoms in the formula
 - The moles of each element in 1 mole of compound
- The subscripts are used to write conversion factors for moles of each element in 1 mole of a compound
 - 9 moles C/1 mole $C_9H_8O_4$
 - 8 moles H/1 mole $C_9H_8O_4$
 - 4 moles O/1 mole $C_9H_8O_4$

7.2-3 MOLAR MASS & CALCULATIONS

Molar Mass // The mass of 1 mole of an element or compound (atomic mass expressed in g).

- For a compound...
 - The sum of the molar masses of the elements in the formula
 - $CaCl_2 = 40.1g/mol (Ca) + (2 \times 35.5g/mol) (Cl)$

Molar Mass Conversion Factors

- Are fractions written from the molar mass

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special properties of water and the role of the oceans in the hydraulic cycle The distribution of temperature and salinity in the oceans and how they influence water density and movements is then discussed Light and sound in seawater are considered next along with some uses of acoustics These are followed by an examination of the composition and behaviour of dissolved constituents including such topics as residence times the control of pH and redox relationships Finally the history of seawater and its role in global cycles is reviewed with special reference to climatic change and the CO₂ problem **The Saturday Review of Politics, Literature, Science and Art** ,1887 The Saturday Review of Politics, Literature, Science, Art, and Finance ,1887 **Bulletin of the Atomic Scientists** ,1966-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world *New England Journal of Education* ,1878

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