

CHEM 102 - Exam 1 Study Guide

Week 1

- Introduction to environmental chemistry
- Chemistry is the study of matter
- Structural chemistry
 - Structure
 - Molecular and formula weight
 - Molar mass
 - Density
 - Measurement is based on
 - Mass and volume
 - Significant figures
- Matter's states (Mass, Volume)
 - Matter demonstrates that tiny indivisible particles called atoms
 - Brownian motion - atoms are continuously vibrating
 - Mass of a given element is identical
 - Brownian motion - constant mass
 - Compounds can be used either as molecular or as representative
 - Gas - Law of Dalton's partial pressures
 - Chemical reactions are accompanied by changes
 - Reaction - what does this element?
- Matter's states: The States
 - Solid
 - Expansion on melting
 - Expansion on boiling
 - Liquid
 - Expansion on boiling
 - Gas
 - Expansion on boiling
- Matter's states
 - Early models
 - Propagation of environmental acid rain
 - Photochemical smog - what is a type of smog
 - Matter's states
 - Solid
 - Density of solids $\rho = \frac{m}{V}$
 - Density of liquids $\rho = \frac{m}{V}$
 - Density of gases $\rho = \frac{m}{V}$

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