

Unit 1 Chemistry Study Guide

History of the Atom:

Democritus (450 BCE):

- Matter is not infinitely divisible.
- There are single particles that cannot be divided further, called **atomos**.

Aristotle (380 BCE):

- Matter is infinitely divisible.
- Matter is called **hyle**.

Antoine Lavoisier (1774):

- **Law of Conservation of Mass:** Mass cannot be created or destroyed.

Joseph Proust (1779):

- **Law of Definite Proportions:** All samples of a pure compound contain the same elements in the same proportion by mass (no matter quantity).

John Dalton (1803 – 1808):

- Observed work of Lavoisier and Proust
- Led Dalton to develop the first **atomic theory**.
- **Dalton's Atomic Theory:**
 - o All matter is composed of extremely small particles called atoms.
 - o All atoms of a given element are identical, having the same size, mass, and chemical properties. The atoms of one element are different from the atoms of all other elements.
 - o Atoms cannot be subdivided, created, or destroyed.
 - o Atoms of different elements can combine in simple whole number ratios to form chemical compounds.
 - o In chemical reactions, atoms are combined, separated or rearranged.
- **Law of Multiple Proportions:** Elements can combine in different proportions. However, the different compounds will have different properties but the ratio of atoms is always a whole number.

Billiard Ball Model:



J.J. Thompson (1906):

- **Cathode Ray Experiment –**
 - o Part 1: Thompson ran electricity through a cathode ray tube and when he put the negatively charged end of a magnet near the tube, he saw the ray of electricity

Mastering Chemistry Study Guide

Nivaldo J. Tro



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Basic Chemistry with Masteringchemistry with Study Guide Karen C Timberlake,2010-05-13 This package contains the following components 0321706161 Basic Chemistry with MasteringChemistry 0321676262 Study Guide for Basic Chemistry **Chemistry Passcode** Pearson,2010-12-31 ALERT Before you purchase check with your instructor or review your course syllabus to ensure that youselect the correct ISBN Several versions of Pearson s MyLab check with the seller before completing your purchase Used or rental books If you rent or purchase a used book with an access code the access code may have been redeemed previously and you may have to purchase a new access code Access codes Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code Check with the seller prior to purchase When you see the connections you ll see the chemistry Today s students use textbooks differently than in the past andChemistry Sixth Edition is designed to map to the way you seek and process information This book is known for a smart precise presentation that blends the quantitative and visual aspects of general chemistry Features like Remember Conceptual Problems Conceptual Worked Examples Inquiry and Worked Examples make these critical connections clear and visible so you ll reallysee the chemistry the first time Used by over a million science students the Mastering platform is the most effective and widely used online tutorial homework and assessment system for the sciences This is the product access code card for MasteringChemistry and does not include the actual bound book Pearson eText gives students access to the text whenever and wherever they can access the Internet The eText pages look exactly like the printed text and include powerful interactive and customization functions This is the access code card for Pearson eText and does not include the actual bound book **Introductory Chemistry + Masteringchemistry, Pearson Etext Student Access Kit + Study Guide** Nivaldo J. Tro,2008-06-27 This package contains the following components 0321570138 MasteringChemistry with Pearson eText Student Access Kit ME component 0136019005 Study Guide for Introductory Chemistry 0136003826 Introductory Chemistry Organic Chemistry Plus Masteringchemistry with Etext Package and Study Guide and Student's Solutions Manual Paula Y Bruice,2013-05-08 This package contains 0321803078 Organic Chemistry Plus MasteringChemistry with eText Access Card Package 0321826590 Study Guide and Student s Solutions Manual for Organic Chemistry **General Chemistry Study Guide Sixth Edition** Darrell D. Ebbing,1999 Modified Mastering Chemistry with Pearson Etext -- Combo Acces Card -- For Introductory Chemistry Charles Corwin,2020-05-29 Study Guide Joan I. Senyk,Darrell D. Ebbing,1984 *Organic Chemistry; Modified Mastering Chemistry With Pearson Etext Valuepack Access Card + Study Guide + Student Solutions Manual for Organic Chemistry, Books a La Carte Edition* Paula Yurkanis Bruice,2015-05-05 **Study Guide to Accompany Basics for Chemistry** Martha Mackin,2012-12-02 Study Guide to Accompany Basics for Chemistry is an 18 chapter text designed to be used with Basics for Chemistry textbook Each chapter contains Overview Topical Outline Skills and Common Mistakes which are all keyed to the

textbook for easy cross reference The Overview section summarizes the content of the chapter and includes a comprehensive listing of terms a summary of general concepts and a list of numerical exercises while the Topical Outline provides the subtopic heads that carry the corresponding chapter and section numbers as they appear in the textbook The Fill in Multiple Choice are two sets of questions that include every concept and numerical exercise introduced in the chapter and the Skills section provides developed exercises to apply the new concepts in the chapter to particular examples The Common Mistakes section is designed to help avoid some of the errors that students make in their effort to learn chemistry while the Practical Test section includes matching and multiple choice questions that comprehensively cover almost every concept and numerical problem in the chapter After briefly dealing with an overview of chemistry this book goes on exploring the concept of matter energy measurement problem solving atom periodic table and chemical bonding These topics are followed by discussions on writing names and formulas of compounds chemical formulas and the mole chemical reactions calculations based on equations gases and the properties of a liquid The remaining chapters examine the solutions acids bases salts oxidation reduction reactions electrochemistry chemical kinetics and equilibrium and nuclear organic and biological chemistry This study guide will be of great value to chemistry teachers and students [Study Guide](#) Darrell D.

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