

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:



atom

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

Conclusion Chemistry Study Guide

**Eva Brooks, Emma Edstrand, Anders
Kalsgaard Møller, Thomas Bjørner**



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Clinical Chemistry Study Guide Norbert W. Tietz,Tietz,1987 Proceedings of the 4th International Conference on Innovation in Education, Science and Culture, ICIESC 2022, 11 October 2022, Medan, Indonesia Baharuddin,Hesti Fibriasari,Juniastel Rajagukguk,2022-12-22 We are delighted to present the Proceedings of the 4th International Conference on Innovation in Education Science and Culture ICIESC that organized by Research and Community Service Centre of Universitas Negeri Medan LPPM UNIMED Proceedings of the 4th ICIESC contains several papers that have presented at the seminar with theme Education and Science in time of uncertainty Recovering for the Future This conference was held on 11 October 2022 virtually and become a routine agenda annually The 4th ICIESC was realized this year with various presenters lecturers researchers and students from universities both in and out of Indonesia The 4th International Conference on Innovation in Education Science and Culture ICIESC 2022 shows up as a Mathematics and Natural Science Material Science Physics Education Biology Education Chemistry Education Vocational Education Applied Sciences Computers Multimedia Technology Applied Mathematics E learning system Applied Sciences Information Technology Applied Sciences Engineering Social Science and Humanities Management Innovation and Heritage Culture research platform to gather presentations and discussions of recent achievements by leading researchers in academic research With the number participants 260 participants who came from the various national and international universities member research institute and academicians There are 181 papers passed through rigorous reviews process and accepted by the committee All of papers reflect the conference scopes and become the latest trend It has been our privilege to convene this conference Our sincere thanks to the conference organizing committee to the Program Chairs for their wise advice and brilliant suggestion on organizing the technical program and to the Program Committee for their thorough and timely reviewing of the papers Recognition should go to the Local Organizing Committee members who have all worked extremely hard for the details of important aspects of the conference programs and social activities We welcome you to read this proceeding and hope the reader can find according to your interests and scientific field **Study Guide to Accompany Samuelson: Economics, 9th Ed** Romney Robinson,1973

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detailed solutions to all odd numbered end of chapter problems in the text book **Design, Learning, and Innovation** Eva Brooks, Emma Edstrand, Anders Kalsgaard Møller, Thomas Bjørner, 2025-03-20 This book constitutes the refereed proceedings of the 9th EAI International Conference on Design Learning and Innovation DLI 2024 held virtually during November 7 8 2024 The 11 full papers included in this book were carefully reviewed and selected from 29 submissions They were organized in topical sections as follows Using Immersive Technologies for Learning Accessibility and Technological Innovation and Engaging Learners through Gamification Playful Design and Generative AI *High School Manual and Course of Study* Michigan. Department of Public Instruction, 1928 Study Guide & Solutions Manual to Accompany Organic Chemistry, Third Edition G. Marc Loudon, Joseph G. Stowell, 1995 *Manual of Pathology Including Bacteriology, the Technic of Postmortems, and Methods of Pathologic Research Being a Second Edition of the Author's "Lectures on Pathology", Rewritten and Enlarged* William Michael Late Coplin, 1911 **Manual of Pathology** William Michael Late Coplin, 1912

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