

BASIC CHEMISTRY

CHEMISTRY

- ✓ Medieval Latin "Alchimia"/ Arabic "Alkimya", the chemistry
- ✓ The study of the composition and structure of the changes in matter
- ✓ It is often called the central science because knowledge in this field is a prerequisite for all the other physical and biological sciences.

HISTORICAL DEVELOPMENT OF THE ATOMIC STRUCTURE

ATOM

- ✓ It is the smallest possible unit into which matter can be divided, while still maintaining its properties
- ✓ Building blocks of matter
- ✓ It has protons (+), neutrons (0), and electrons (-)

1. **Democritus** was a greek philosopher who first introduced the concept of atoms. He believed that matter is comprises of tiny indivisible particles known as atomos.
2. **Dalton's Atomic Theory**
 - a. All matter is made up of indivisible particles known as atoms.
 - b. All atoms of the same elements are alike.
 - c. Compounds are formed when atoms of different elements combine in certain proportions.
 - d. atoms are only rearranged but neither created nor destroyed in chemical reactions.
3. **Law of Definite Proportion** – a given compound always contains the same elements in exactly the same proportion by mass.

H_2O - ratio of two hydrogen atom with one oxygen atom only. If it becomes ratio of two hydrogen atom with two oxygen atom, it is not already water.

4. **Law of Multiple Proportions** – when two elements can combine to form more than one type of compound, the masses of one element that combine with a fixed mass of the other elements are in a ratio of small whole numbers.



5. **Law of Conservation of Mass** states that matter can neither be created nor destroyed. Matter is just transformed.
6. The discovery of the different sub-atomic particles:
 - i. **J.J. Thompson** determined the charge to mass ratio of the electron using a cathode ray tube.

Basic Chemistry Student Guide

J Dewey



Basic Chemistry Student Guide:

Basic chemistry William S. Seese,1981 **Study Guide for Basic Chemistry** Karen C. Timberlake,2010-05-10

Chemistry Richard Post,Chad Snyder,Clifford C. Houk,2020-09-16 A practical complete and easy to use guide for understanding major chemistry concepts and terms Master the fundamentals of chemistry with this fast and easy guide Chemistry is a fundamental science that touches all other sciences including biology physics electronics environmental studies astronomy and more Thousands of students have successfully used the previous editions of Chemistry Concepts and Problems A Self Teaching Guide to learn chemistry either independently as a refresher or in parallel with a college chemistry course This newly revised edition includes updates and additions to improve your success in learning chemistry This book uses an interactive self teaching method including frequent questions and study problems increasing both the speed of learning and retention Monitor your progress with self tests and master chemistry quickly This revised Third Edition provides a fresh step by step approach to learning that requires no prerequisites lets you work at your own pace and reinforces what you learn ensuring lifelong mastery Master the science of basic chemistry with this innovative self paced study guide Teach yourself chemistry refresh your knowledge in preparation for medical studies or other coursework or enhance your college chemistry course Use self study features including review questions and quizzes to ensure that you re really learning the material Prepare for a career in the sciences medicine or engineering with the core content in this user friendly guide Authored by expert postsecondary educators this unique book gently leads students to deeper levels and concepts with practice critical thinking problem solving and self assessment at every stage *Basic Concepts of Chemistry, Study Guide* Leo J. Malone,1989-02-21 This Third Edition revised to provide smoother transitions between topics employs a concise yet informal approach to basic chemistry organized to help students employ basic math skills and problem solving strategies Writing style is straightforward and presentation incorporates many concrete analogies to clarify new concepts Includes many illustrative worked examples **Study Guide and Selected Solutions Manual for Basic Chemistry** Karen C. Timberlake,2016-03-29 The Study Guide and Selected Solutions Manual assists students with the text material It contains learning objectives chapter outlines additional problems with self tests and answers and answers to the odd numbered problems in the text *Resources in Education* ,1995-07 **Basic Chemistry and Study Guide and Student Solutions Manual and Cd 4. 0, Fourth Edition** Steven S. Zumdahl,2000-05-01 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1979 Wastewater Operator Certification Study Guide John Giorgi,2011-01-12 Catalog of the Officers and Students of the University in Cambridge Harvard University,1891 **The Student's Guide to the University of Cambridge** ,1880 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 academician 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 through 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 Pamphlet - Dept. of the Army United States. Department of the Army,1951 *The student's guide to the University of Cambridge* [ed. by sir J.R. Seeley]. ,1880 **Basic Chemistry with Introduction to Chemistry Study Guide Cd with Media Act and Student Supplement Package** Steven S. Zumdahl,2003-06-01

General Catalogue of the Books Except Fiction, French, and German, in the Public Library of Detroit, Mich Detroit Public Library,1889 **Basic Chemistry Study Guide and Selected Solutions Manual** Karen C. Timberlake,Mark Quirie,2012-12-22 This workbook guides students through basic skills mathematical review and successful problem solving techniques Practice tests and solutions to odd numbered text problems are included **Subject Guide to Books in Print** ,1984 *Study Guide to Accompany Russell- General Chemistry* Norman Eatough,1980 Chemistry Richard Post,Chad Snyder,Clifford C. Houk,2020-08-17 A practical complete and easy to use guide for understanding major chemistry concepts and terms Master the fundamentals of chemistry with this fast and easy guide Chemistry is a fundamental science that touches all other sciences including biology physics electronics environmental studies astronomy and more Thousands of students have successfully used the previous editions of Chemistry Concepts and Problems A Self Teaching Guide to learn chemistry either independently as a refresher or in parallel with a college chemistry course This newly revised edition

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