

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

Cartoon Guide To Chemistry Study Questions

John Michels (Journalist)



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Cases on STEAM Education in Practice Bazler, Judith, Van Sickle, Meta, 2017-02-08 Curriculum for STEM education programs have been successfully implemented into numerous school systems for many years. Recently the integration of arts education into such programs has proven to be significantly beneficial to students, resulting in a new method of teaching including science, technology, engineering, art, and mathematics. *Cases on STEAM Education in Practice* is an essential research publication for the latest scholarly information on curriculum development, instructional design, and educational benefits of STEAM learning initiatives. Featuring coverage on a range of topics including fine arts, differentiated instruction, and student engagement, this book is ideally designed for academicians, researchers, and professionals seeking current research on the implementation of STEAM education.

Best STEM Resources for NextGen Scientists Jennifer L. Hopwood, 2015-06-30. Intended to support the national initiative to strengthen learning in areas of science, technology, engineering, and mathematics, this book helps librarians who work with youth in school and public libraries to build better collections and more effectively use these collections through readers advisory and programming. A versatile and multifaceted guide, *Best STEM Resources for NextGen Scientists: The Essential Selection and User's Guide* serves as a readers advisory and collection development resource for youth services and school librarians seeking to bring STEM-related titles into their collections and introduce teachers and young readers to them. This book not only guides readers to hundreds of the best STEM-related titles (fiction and non-fiction), printed materials as well as apps, DVDs, websites, and games; it also includes related activities or programming ideas to help promote the use of the collection to patrons or students in storytime, afterschool programs, or passive library programs. After a detailed discussion of the importance of STEM and the opportunities librarians have for involvement, the book lists and describes best STEM resources for young learners. Resources are organized according to the reading audiences for which they are intended, from toddlers through teens, and the book includes annotated lists of both fiction and non-fiction STEM titles as well as graphic novels, digital products, and online resources. In addition, the author offers a selection of professional readings for librarians and media specialists who wish to further expand their knowledge.

Learning Management System Technologies and Software Solutions for Online Teaching: Tools and Applications Kats, Yefim, 2010-05-31. This book gives a general coverage of learning management systems, followed by a comparative analysis of the particular LMS products, review of technologies supporting different aspects of educational process, and the best practices and methodologies for LMS-supported course delivery. Provided by publisher.

The Science Teacher, 2005. SCC Library has 1964 cur. *Science* John Michels (Journalist), 2005. A weekly record of scientific progress. *Choice*, 2005. **500 Essential Graphic Novels** Gene Kannenberg, 2008. Featuring full-color images from the best moments in graphic novel history, this comprehensive reference explores everything from dragons, cow races, and monstrous rats to insider secrets from Casanova himself. Includes top ten must-reads for every popular genre. **Book**

Review Digest ,1930 *Contemporary Authors* ,2003-11 These exciting and unique author profiles are essential to your holdings because sketches are entirely revised and up to date and completely replace the original Contemporary Authors entries A softcover cumulative index is published twice per year included in subscription Research in Education ,1972

Resources in Education ,1972 *Learning to Teach Science in the Secondary School* Rob Toplis,Jenny Frost,2004-07-15 The second edition of this popular student textbook presents an up to date and comprehensive introduction to the process and practice of teaching and learning science in the secondary school *Booklist* ,1919 **Typewriter Topics** ,1927 **Software for Teaching Science** Roger Frost,1998 Boston Journal of Chemistry and Popular Science Review ,1878 **Newspaper Press Directory** ,1913 Catalogue of high-school and college textbooks Ginn and Company,1916 **Book Buyer** ,1871 *Biology/science Materials* Carolina Biological Supply Company,1991

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