

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.

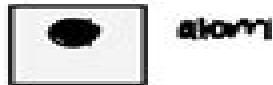
Joseph Proust (1779):

- **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**.
 - o **Daltons 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 to different elements can combine in simple whole number ratios to form chemical compounds.
 - o In chemical reactions, atoms are combined, separated or rearranged.
 - o **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

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 Curriculums 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 multi faceted 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 nonfiction 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 aspect of educational process and the best practices and methodologies for LMS supported course delivery Provided by publisher

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