

## 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

# Chemistry Study Guide Nuclear Chemistry

**Castle Rock Research Corp.**



## **Chemistry Study Guide Nuclear Chemistry:**

*Radiochemistry and Nuclear Chemistry* Gregory Choppin, Jan-Olov Liljenzin, Jan Rydberg, 2002 Origin of Nuclear Science Nuclei Isotopes and Isotope Separation Nuclear Mass and Stability Unstable Nuclei and Radioactive Decay Radionuclides in Nature Absorption of Nuclear Radiation Radiation Effects on Matter Detection and Measurement Techniques Uses of Radioactive Tracers Cosmic Radiation and Elementary Particles Nuclear Structure Energetics of Nuclear Reactions Particle Accelerators Mechanics and Models of Nuclear Reactions Production of Radionuclides The Transuranium Elements Thermonuclear Reactions the Beginning and the Future Radiation Biology and Radiation Protection Principles of Nuclear Power Nuclear Power Reactors Nuclear Fuel Cycle Behavior of Radionuclides in the Environment Appendices Solvent Extraction Separations Answers to Exercises Isotope Chart Periodic Table of the Elements Quantities and Units Fundamental Constants Energy Conversion Factors Element and Nuclide Index Subject Index      Super Course in Chemistry for the IIT-JEE: Physical Chemistry ,      *Chemistry* Mark Jackson, 2012-05-31 BarCharts best selling quick reference to chemistry has been updated and expanded in this new edition With updated content and an additional panel of information this popular guide is not only an essential companion for students in introductory chemistry courses but also a must have refresher for students in higher level courses Author Mark D Jackson PhD a scientist and university chemistry professor has a gift for making the complicated subject of chemistry interesting and easy to understand without the fluff In this new edition you will find more coverage of the subject helpful illustrations chemical problems and practical applications making this a study tool you won't want to be without      *NES Chemistry Study Guide* NES Chemistry Exam Prep Team, 2018-02-12 Imagine a study guide actually designed for teachers Because we know you've got a busy life we've developed a study guide that isn't like other certification materials out there With our NEW NES Chemistry Study Guide Test Prep and Practice Questions for the National Evaluation Series Chemistry Exam you get a swift but full review of everything tested on your certification exam FREE online resources are also included with your study guide Imagine having FREE practice questions digital flash cards study cheat sheets and 35 test tips available anytime anywhere on your cell phone or tablet Our resources will give you the push you need to pass your test the first time Because NES Chemistry Study Guide tells you everything you need to know and nothing you don't you'll have more time to concentrate on what's important in your life Furthermore NES Chemistry Study Guide gives you the opportunity to test your knowledge and assess your skills with practice tests and answers based on the actual exam Because teaching is more than a test we give you JUST what you need to succeed NES Chemistry Study Guide Test Prep and Practice Questions for the National Evaluation Series Chemistry Exam will provide you with a detailed overview of the NES Chemistry exam so you know exactly what to expect on test day We'll take you through all the concepts covered on the test and give you the opportunity to test your knowledge with practice questions Even if it's been a while since you last took a major test don't worry we'll make sure you're more than ready Cirrus Test Prep's NES Chemistry Study

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