

# 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

# Study Guide For Mastering Chemistry

**Paula Yurkanis Bruice**

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examples The Common Mistakes section is designed to help avoid some of the errors that students make in their effort to learn chemistry while the Practical Test section includes matching and multiple choice questions that comprehensively cover almost every concept and numerical problem in the chapter After briefly dealing with an overview of chemistry this book goes on exploring the concept of matter energy measurement problem solving atom periodic table and chemical bonding These topics are followed by discussions on writing names and formulas of compounds chemical formulas and the mole chemical reactions calculations based on equations gases and the properties of a liquid The remaining chapters examine the solutions acids bases salts oxidation reduction reactions electrochemistry chemical kinetics and equilibrium and nuclear organic and biological chemistry This study guide will be of great value to chemistry teachers and students **Mastering Chemistry** Marthinus Lourens Prinsloo,1988 **Study Guide & Solutions Manual to Accompany Organic Chemistry**

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