

## Chapter 2: Atoms, Molecules and Ions

### Dalton's Atomic Theory (1805)

1. All matter consists of **atoms**; tiny indivisible particles of an element that cannot be created or destroyed.
2. Atoms of one element **cannot** be subdivided, created, or destroyed during chemical reactions. (wrong)
3. Atoms of an element are **identical** in mass and other properties and are different from the atoms of any other element. (wrong)
4. Compounds result from the chemical combination of a **specific ratio** of atoms of different elements.

### Atomic Structure: Electrons

- J.J. Thomson (1897) Cathode Ray Tube Experiment
- Observations:
  - Ray bends in magnetic field
  - Ray bends toward positive plate in electric field
  - Ray is identical for any cathode
- Conclusions:
  - Ray consists of charged particles
  - Ray consists of negative particles
  - These particles are found in ALL matter

**Cathode Ray Tube experiment using magnets led to the discovery of electrons**

### Thomson's Model of the Atom

- Plum-pudding model:
  - E- distributed throughout diffuse, positively charged "squishy" sphere



### Atomic Structure: The Nucleus

- Rutherford's Experiment
  - Bombard a thin gold foil with positively charged particles to test Thomson's model of the atom
  - Observations:
    - Atom is made up of smaller subatomic particles
      - Protons
      - Neutrons
      - Electrons (mass of only ab 1/2000th of other particles)
  - Conclusions

# Genral Chemistry Study Guide

**L Cohen**



## **Genral Chemistry Study Guide:**

## Genral Chemistry Study Guide Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Genral Chemistry Study Guide**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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