

# ATOMIC STRUCTURE

## RUTHERFORD'S MODEL

- Discovered that an atom is mostly made up of empty space
- Center of the atom is a small dense positively charged nucleus
- This nucleus holds the negatively charged particles in the atom

## BOHR'S MODEL

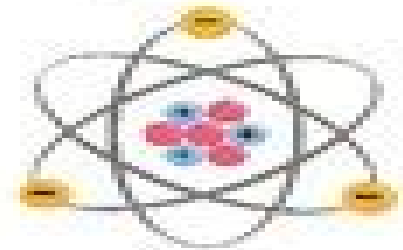
- There are 2 main pieces of an atom:
- Nucleus
- Electrons

### THE OLD MODEL OF THE ATOM



## WAVE-MECHANICAL MODEL

- Electrons are moving so fast that they look like a cloud. Orbitals are regions of most likely electron location



## WHAT IS TRUE TODAY...

- The nucleus is composed of 2 things:
  - PROTONS - positively charged particles
  - NEUTRONS - neutral charged particles
- Electrons are in a cloud - they are in orbitals
  - Electrons DO move around the nucleus in different patterns



Subatomic Particle	Location in the Atom	Charge	Weight
proton	center (in the nucleus)	positive	1 amu
neutron	center (in the nucleus)	neutral (no charge)	1 amu
electron	around the nucleus in clouds or orbitals	negative	Almost equal to neutrons (1/2)

### IONS

- If an atom gains or loses an electron, it is called an ion
- This gives the atom a charge:
  - Lose an electron, the atom becomes positive
  - Gain an electron, the atom becomes negative

### ISOTOPES

- An isotope is when an atom is physically the same, position
- An isotope is still the same element, it is just a little different from every other atom of the same element
  - slightly different mass

# Study Guide Structure Atom Answer Key

**Samuel C. Brownstein, Mitchel Weiner**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

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### **Table of Contents Study Guide Structure Atom Answer Key**

1. Understanding the eBook Study Guide Structure Atom Answer Key
  - The Rise of Digital Reading Study Guide Structure Atom Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Structure Atom Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Study Guide Structure Atom Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Structure Atom Answer Key
  - Personalized Recommendations

- Study Guide Structure Atom Answer Key User Reviews and Ratings
- Study Guide Structure Atom Answer Key and Bestseller Lists
- 5. Accessing Study Guide Structure Atom Answer Key Free and Paid eBooks
  - Study Guide Structure Atom Answer Key Public Domain eBooks
  - Study Guide Structure Atom Answer Key eBook Subscription Services
  - Study Guide Structure Atom Answer Key Budget-Friendly Options
- 6. Navigating Study Guide Structure Atom Answer Key eBook Formats
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  - Study Guide Structure Atom Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Study Guide Structure Atom Answer Key
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  - Interactive Elements Study Guide Structure Atom Answer Key
- 8. Staying Engaged with Study Guide Structure Atom Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Study Guide Structure Atom Answer Key
- 9. Balancing eBooks and Physical Books Study Guide Structure Atom Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Study Guide Structure Atom Answer Key
- 10. Overcoming Reading Challenges
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