

# 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

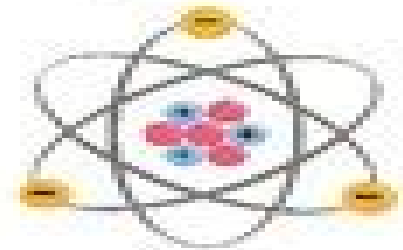
- There are 2 main pieces of an atom:
- Nucleus
- Electrons

## 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 1/1836

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

# Atomic Structure Anticipation Guide

**Library of Congress**



## Atomic Structure Anticipation Guide:

Chemistry Basics (Speedy Study Guide) Speedy Publishing, 2014-12-28 A study guide of chemistry basics would give students bite sized chunks of information on a complex subject making the task of learning it easier and more enjoyable Study guides present detailed information on a topic in a compact and simplistic way which helps the student grasp more of what they are being taught Also the visual aids that usually are found in study guides can be very effective in keeping the attention of the child as well as embedding the material in their memory *Periodic Table (Advanced) (Speedy Study Guide)* Speedy Publishing, 2014-11-26 If you are studying any type of science and need to know about the periodic table and all of its elements you may benefit from a periodic table advanced study guide in order to help you organize and apply the information in a matter that makes sense With so many different elements on the table to memorize you may be overwhelmed by the amount of information Having a study guide helps to break down the information for you so that it is easier to understand and remember *A Study Guide to Chemical Principles* Wilbert Hutton, 1970 Resources in Education, 1984 Serves as an index to Eric reports microform **Study Guide, Student Edition** Merrill, 1994-07 Study Guide with Answers to Selected Problems H. Stephen Stoker, Danny V. White, 2003-04 This supplement includes for each chapter a brief overview activities and practice problems to reinforce skills and a practice test The answers section includes answers for all odd numbered end of chapter exercises *Study Guide for Chemistry, Third Edition [by] Steven S. Zumdahl* Paul B. Kelter, 1993 Student Study Guide and Solutions Manual to Accompany General, Organic, and Biochemistry Katherine J. Denniston, Katherine, 2006 **Chemistry, Study Guide** James E. Brady, John R. Holum, 1993-02-11 Offers accurate lucid and interesting explanations of basic concepts and facts of chemistry while helping students develop skills in analytical thinking and problem solving Students are taught in a variety of ways to think of skills as tools that can be used to solve complex problems Several aids are included to help focus and inspire student interest frequent reference to common chemicals in commercial products numerous photographs of reactions in chapter practice exercises following worked examples Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today Seager/Slabaugh, 2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application **Essential Concepts of Chemistry Study Guide** James R. Braun, Sherman, 1999 **Basic Concepts of Chemistry, Study Guide** Leo J. Malone, 2000 The text s three main goals are to introduce chemistry as a living relevant science to encourage learning and critical thinking and to help readers overcome the math difficulties that impede their progress in chemistry Designed to help readers master the principles of general chemistry As a prep book it promotes active involvement with the material There are special features throughout that

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