

# 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

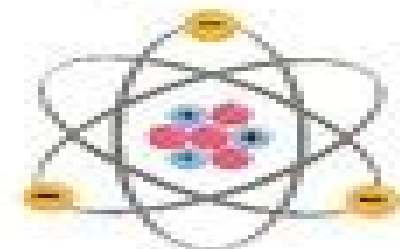
- There are 2 main pieces of an atom:
- Nucleus
- Electrons

THE OLD MODEL OF THE ATOM



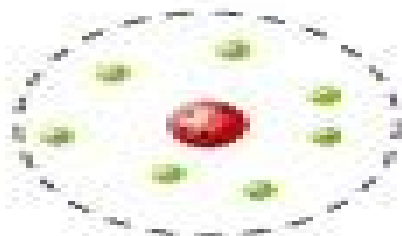
## WAVE-MECHANICAL MODEL

- 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:
  - Loss an electron, the atom becomes positive
  - Gain an electron, the atom becomes negative

### ISOTOPES

- An isotope is when an atom is proton or has a different number
- 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 Study Guide And Nuclear Processes

**JS Bruner**



## **Atomic Structure Study Guide And Nuclear Processes:**

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In a digitally-driven world wherever screens reign great and quick conversation drowns out the subtleties of language, the profound secrets and psychological nuances concealed within phrases frequently move unheard. Yet, located within the pages of **Atomic Structure Study Guide And Nuclear Processes** a charming fictional prize sporting with natural emotions, lies an extraordinary journey waiting to be undertaken. Published by an experienced wordsmith, that enchanting opus attracts readers on an introspective journey, lightly unraveling the veiled truths and profound impact resonating within the cloth of every word. Within the psychological depths with this emotional review, we shall embark upon a heartfelt exploration of the book is key themes, dissect their charming writing design, and succumb to the strong resonance it evokes serious within the recesses of readers hearts.

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