

ATOMIC STRUCTURE

RUTHERFORD'S MODEL

- Discovered that an atom is mostly empty space with tiny particles.
- Charged particles move in a small elliptical path around a central nucleus.
- This can only hold the negatively charged particles in the center.

BOHR'S MODEL

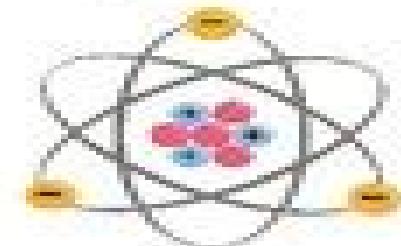
- Shows the elliptical path of an electron.
- Electrons
- Electrons

THE JELLY PUDDING MODEL



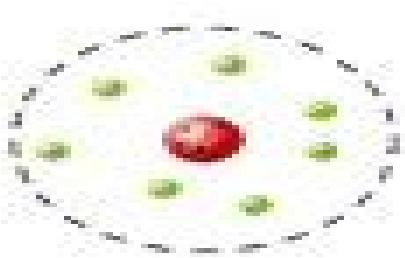
WAVE-MECHANICAL MODEL

- Shows electrons moving in paths, like tiny clouds like in clouds. Orbitals are regions of space likely where an electron.



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	1.67 x 10 ⁻²⁴
neutron	center (in the nucleus)	neutral (no charge)	1.67 x 10 ⁻²⁴
electron	around the nucleus in elliptical orbits	negative	1.67 x 10 ⁻²⁴ x 10 ⁻³⁰

IONS

- If an atom gains or loses an electron, it becomes an ion.
- This gives the atom a charge:
 - Loss of electrons, the atom becomes positive.
 - Gains of electrons, the atom becomes negative.

ISOTOPES

- An isotope is when an atom has a different mass number.
- An isotope is still the same element, it is just a little different mass, every atom has all other atoms different in slightly different mass.

Atomic Structure Study Guide And Nuclear Processes

JS Bruner

Atomic Structure Study Guide And Nuclear Processes:

Resources in Education ,1973-05 Research in Education ,1973 **Study Guide and Student Solutions Manual**
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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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