

# 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

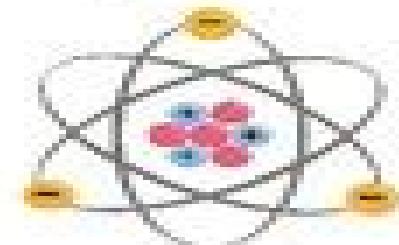
- Shows the elliptical path of an electron.
- Electrons
- Electrons

## THE JELLY PUDDING MODEL



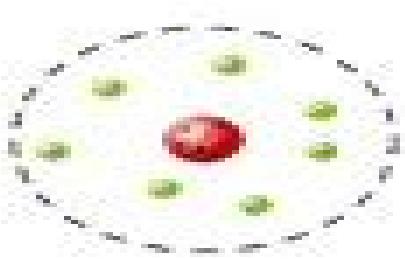
## WAVE-MECHANICAL MODEL

- 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 <sup>-24</sup>
neutron	center (in the nucleus)	neutral (no charge)	1.67 x 10 <sup>-24</sup>
electron	around the nucleus in elliptical orbits	negative	1.67 x 10 <sup>-24</sup> x 10 <sup>-30</sup>

## 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.

# Atoms Study Guide

**M Walker**

## **Atoms Study Guide:**

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## Unveiling the Magic of Words: A Review of "**Atoms Study Guide**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Atoms Study Guide**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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