

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 the same, but 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 Study Guide

William H. Myers, William T. Mooney

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

Atomic Structure Study Guide:

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