

# 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

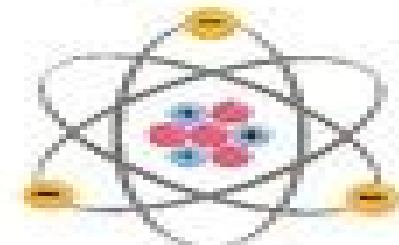
- Shows some details present in an atom:
- Electrons
- Electrons

## THE JELLY PUDDING MODEL



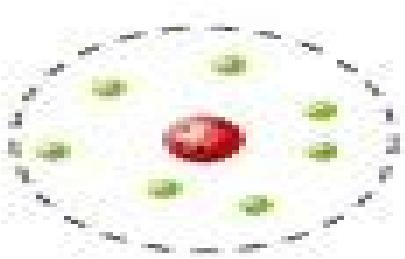
## WAVE-MECHANICAL MODEL

- Shows electrons moving in paths, not fixed lines in closed orbits like in regions of space likely where they appear.



## 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 orbits:
  - 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 an atom that has a different mass number.
- An isotope is still the same element, it is just a little different from every other atom of that same element.

# Study Guide Matter And Atom Answers

**S Ashworth**

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