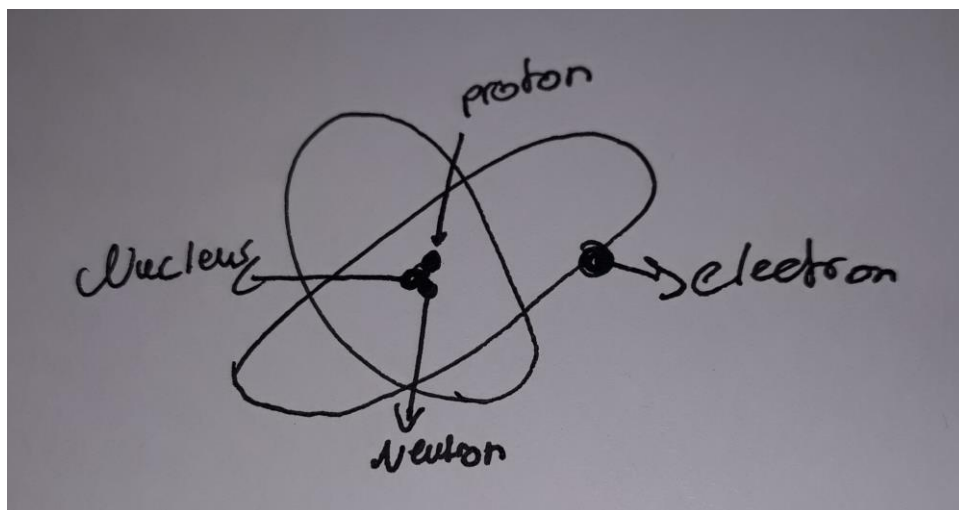


the names of all scientists who helped to develop the structure of the atom:

- John Dalton
- JJ Thomson
- max Planck
- albert Einstein
- Neils Bohr
- Ernest Rutherford
- James Chadwick
- Enrico fermi

A model that shows the development in the structure of the atom:



The main point in Daltons atomic theory:

All matter is made up of atoms, which are indivisible particles, which cannot be created or destroyed in a chemical reaction. Atoms of a given element are identical in mass and chemical properties, but have different masses and properties. Atoms combine to form compounds - the relative number and kinds of atoms are constant in a given compound.

How has the atomic structure changed by time?

JJ Thomson created the first model of the atom in 1904. Ernest Rutherford and the gold foil experiment revealed this to be false. Niels Bohr presented a quantum mechanical shell-contained electron model in 1913. The Bohr model is most similar to the one in use today, though. The Austrian physicist Erwin Schrödinger combined the bohr equation and the equations for the behaviour of waves in 1926 to create a mathematical model for the distribution of electrons in an atom.

The Bohr model of the atom is most closely resembled by the present model, which holds the electrons in randomized shells.

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Grade & Section: 7E