

MATTER

Dalton's atomic theory

- 1) Matter is made up of atom and atom is a smallest, indestructible, indivisible particle of matter which can neither be created nor destroyed.
- 2) Atoms of the same elements are same, all respect like mass, size etc. While atoms of different elements are different.
- 3) When elements combine, they break up into atoms and chemical combination express by the union of atoms in the simple integrated ratio.
- 4) Simple substances are made up of simple atoms whereas complex substances are made up of compound atoms.

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Page 1 of 2

DEFINITIONS OF DALTON'S THEORY

- 1) An atom is not a smallest particles of matter, it is not indivisible, it is not indestructible and it can be created.

An atom can be divided into electrons, protons, neutrons which are smaller than atom.

In nuclear fission an atom (uranium) is divided or destroyed and new atoms Kr and Ba are created.

Atoms of some elements may have different mass.
Eg $\rightarrow$ Isotopes

