

Element: Substance that can not be broken down in to anything simpler by chemical means. Each element contains only one type of atom (same proton number).

Atoms: Atoms are the smallest particles of an element that have the chemical properties of that element.

Molecule: A molecule is a group of two or more atoms that are chemically combined.

Diatomic molecules: diatomic molecules are those that formed when two atoms chemically combined.
eg Iodine I_2 ,Oxygen O_2

Isotopes: different atoms of the same element with the same proton number but different neutron number.

Atomic number:Number of protons in the nucleus of an atom.

Nucleon number: Total number of of neutrons and protons present in nucleus of an atom.

Ion: Atom or group of atoms that has gained or lost an electron.

Important points.

1. Periodic table is arranged in order of increasing proton number.
2. Atom has three sub atomic particles.

particle	relative mass	relative charge
proton	1	+1
neutron	1	nil
electron	1/1840	-1

3. Smaller value with symbol of an element is the proton number and larger value is the nucleon number/atomic mass.

