

## 2

## MOLE CONCEPT

For INSEJS

## DALTON'S ATOMIC THEORY

Dalton's atomic theory was given by John Dalton in 1808. The main postulates of Dalton's atomic theory are:

1. Elements consist of indivisible, indestructible particles called atom.
2. Atoms of an element are identical to each other. They have the same mass and size.
3. Atoms of different elements differ in properties and have different masses and sizes.
4. Compounds are formed when atoms of different elements combine with each other in simple numerical ratio such as 1: 1, 2: 2, 2: 3 and so on.
5. Atoms cannot be created, destroyed or transformed into atoms of other elements.

The main failures of Dalton's atomic theory are:

1. It failed to explain how atoms of different elements differ from each other i.e., did not tell anything about structure of the atom.
2. It could not explain how and why atoms of different element combine with each other to form compound.
3. It failed to explain the nature of forces that bind together different atoms in a molecule.
4. It failed to explain Gay Lussac's law of combining volumes.
5. It did not make any distinction between ultimate particle of an element that takes part in reaction (atoms) and ultimate particle that has independent existence (molecules).

## Prefixes Used With Units

The S.I. system recommends the multiples such as  $10^3$ ,  $10^6$ ,  $10^9$  etc. and fraction such as  $10^{-3}$ ,  $10^{-6}$ ,  $10^{-9}$  etc., i.e. the powers are the multiples of 3. These are indicated by special prefixes. These along with some other fractions or multiples in common use, along with their prefixes are given below in Table and illustrated for length (m)

TABLE: SOME COMMONLY USED PREFIXES WITH THE UNITS

Prefix	Symbol	Multiplication Factor	Example
deci	d	$10^{-1}$	1 decimetre (dm) = $10^{-1}$ m
centi	c	$10^{-2}$	1 centimetre (cm) = $10^{-2}$ m
milli	m	$10^{-3}$	1 millimetre (mm) = $10^{-3}$ m
micro	$\mu$	$10^{-6}$	1 micrometre ( $\mu$ m) = $10^{-6}$ m
nano	n	$10^{-9}$	1 nanometre (nm) = $10^{-9}$ m
pico	p	$10^{-12}$	1 picometre (pm) = $10^{-12}$ m
femto	f	$10^{-15}$	1 femtometre (fm) = $10^{-15}$ m
atto	a	$10^{-18}$	1 attometre (am) = $10^{-18}$ m
zepto	z	$10^{-21}$	1 zeptometre (zm) = $10^{-21}$ m
yocto	y	$10^{-24}$	1 yoctometre (ym) = $10^{-24}$ m
deca	da	10	1 dekametre (dam) = $10^1$ m
hecto	h	$10^2$	1 hectometre (hm) = $10^2$ m
kilo	k	$10^3$	1 kilometre (km) = $10^3$ m
mega	M	$10^6$	1 megametre (Mm) = $10^6$ m
giga	G	$10^9$	1 gigametre (Gm) = $10^9$ m
tera	T	$10^{12}$	1 terametre (Tm) = $10^{12}$ m
petra	P	$10^{15}$	1 petametre (Pm) = $10^{15}$ m
exa	E	$10^{18}$	1 exametre (Em) = $10^{18}$ m
Zetta	Z	$10^{21}$	1 zettametre (Zm) = $10^{21}$ m
otta	Y	$10^{24}$	1 ottametre (Ym) = $10^{24}$ m

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