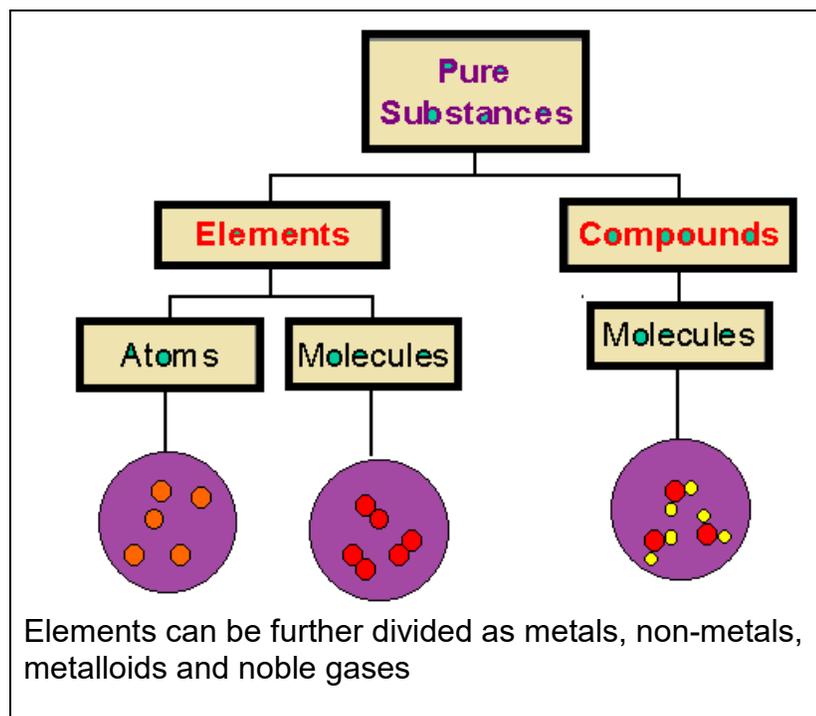


ICSE CLASS 6 CHEMISTRY ELEMENTS AND COMPOUNDS



Atoms: The smallest particle of an element which normally does not exist independently

Molecule: The smallest particle of an element compound that can exist independently

Molecules of elements are made of identical atoms held by bonds

Molecules of compounds are made of different kinds of atoms bound in a definite ratio

Molecular formula represents the composition a molecule of an element or a compound

Atomicity is the number of atoms seen in a molecule e.g.

Monoatomic: Helium He, Neon Ne, Argon Ar. These are noble gases

Diatomic: Oxygen O₂, Hydrogen H₂, Nitrogen N₂

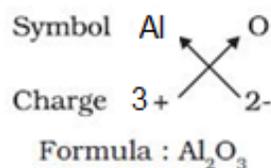
Triatomic: Ozone O₃

Polyatomic: Sulphur S₈, Phosphorus P₄

Symbols of some pure elements

Non- metals		Metals	
Element	Symbol / Valency	Element	Symbol / Valency
Hydrogen	H 1	Sodium	Na 1
Oxygen	O 2	Potassium	K 1
Nitrogen	N 3	Magnesium	Mg 2
Chlorine	Cl 1	Calcium	Ca 2
Carbon	C 4	Lead	Pb 2
Sulphur	S 2	Copper	Cu 1
Phosphorus	P 3	Iron	Fe 2
Silicon	Si 4	Zinc	Zn 2

Formula for aluminium oxide:



Formula for calcium oxide:

