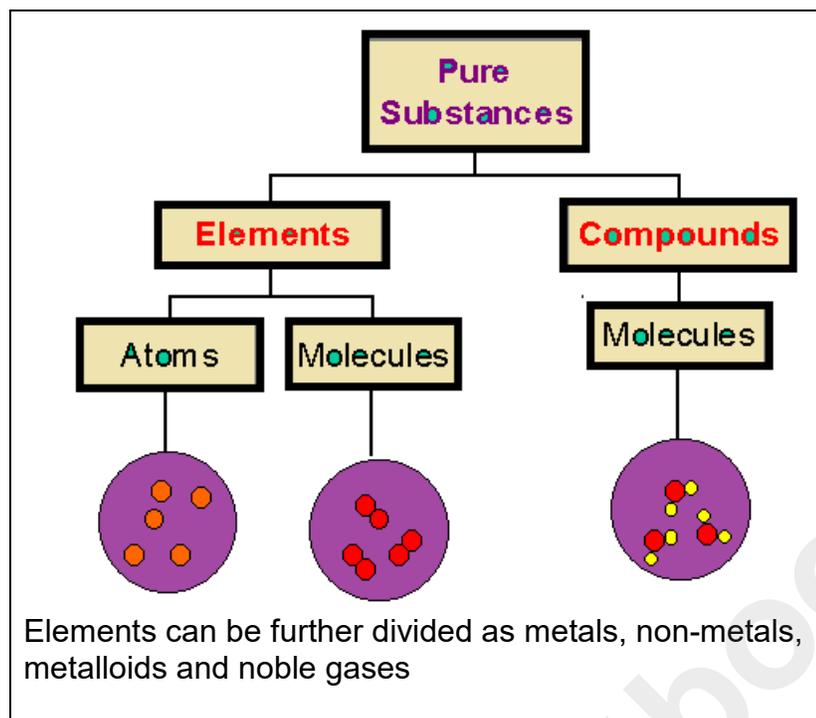


ICSE CLASS 6 CHEMISTRY  
ELEMENTS AND COMPOUNDS

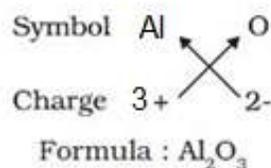


Atoms: The smallest particle of an element which normally does not exist independently  
 Molecule: The smallest particle of an element compound that can exist independently  
 Molecules of elements are made of identical atoms held by bonds  
 Molecules of compounds are made of different kinds of atoms 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 O<sub>2</sub>, Hydrogen H<sub>2</sub>, Nitrogen N<sub>2</sub>  
 Triatomic: Ozone O<sub>3</sub>  
 Polyatomic: Sulphur S<sub>8</sub>, Phosphorus P<sub>4</sub>

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:

