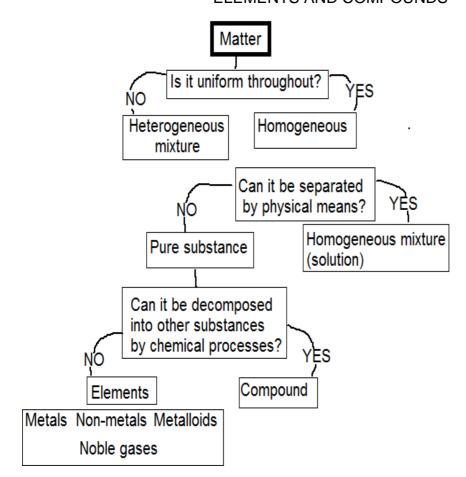
## ICSE CLASS 8 CHEMISTRY ELEMENTS AND COMPOUNDS



## Atoms are the smallest unit of matter

Elements are made of the same type of atoms. They are represented by a symbol

Compounds have different kinds of atoms combined in fixed ratios. They are represented by a formula

Molecules are the smallest unit of elements or compounds which can exist independently

The number of atoms in a molecule is called atomicity Monoatomic (noble gases)

Diatomic: oxygen,

hydrogen

Triatomic: ozone, carbon

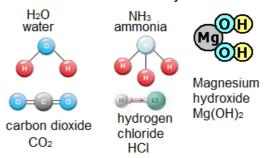
dioxide

Polyatomic: sulphur,

Phosphorus

SYMBOLS OF SOME COMMON			
ELEMENTS			
Metals		Non-metals	
Sodium	Na	Hydrogen	Н
Potassium	K	Oxygen	0
Magnesium	Mg	Nitrogen	N
Aluminium	Al	Chlorine	Cl
Calcium	Ca	Bromine	Br
Iron	Fe	Iodine	I
Copper	Cu	Sulphur	S
Zinc	Zn	Phosphorus	Р
Silver	Ag	Noble gases	
Lead	Pb	Helium	He
Barium	Ва	Argon	Ar
Mercury	Hg	Neon	Ne

## Some molecules formed by these elements



## Remember!

2 H - 2 atoms of Hydrogen

H<sub>2</sub> - one molecule of hydrogen

2 H<sub>2</sub> - 2 molecules of hydrogen

H<sub>2</sub>O<sub>2</sub>- one molecule of hydrogen peroxide with 2 atoms of hydrogen and 2 atoms of oxygen Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> means one molecule of aluminium sulphate with 2 atoms of aluminium, 3 atoms of sulphur, and 12 atoms of oxygen