

## Chemical Symbols & Formulas

Each element name is represented by a **chemical symbol** that is used worldwide.

Chemical Name	Chemical Symbol
Aluminum	Al
Bromine	Br
Calcium	Ca
Carbon	C
Chlorine	Cl
Copper	Cu
Fluorine	F
Gold	Au
Hydrogen	H
Iron	Fe
Lithium	Li
Magnesium	Mg
Neon	Ne
Nickel	Ni
Nitrogen	N
Oxygen	O
Phosphorous	P
Potassium	K
Silicon	Si
Silver	Ag
Sodium	Na
Sulfur	S

A compound, which contains different elements, is represented using a **chemical formula**. This shows the number and type of atoms in the compound.

Name of Substance	Formula	Number & Type of Atoms
sodium bicarbonate (baking soda)	NaHCO <sub>3</sub>	1 sodium (Na) 1 hydrogen (H) 1 carbon (C) 3 oxygen (O)
calcium carbonate (chalk)	CaCO <sub>3</sub>	
sodium nitrate (fertilizer)	NaNO <sub>3</sub>	
calcium phosphate (fertilizer)	Ca <sub>3</sub> P <sub>2</sub> O <sub>8</sub>	
sodium chloride (salt)	NaCl	
acetylsalicylic acid (aspirin)	C <sub>9</sub> H <sub>8</sub> O <sub>4</sub>	
acetic acid (vinegar)	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>	