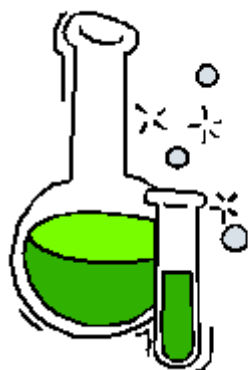


Names of Elements and Compounds



NAMES AND SYMBOLS OF ELEMENTS

The Periodic Table of Elements lists over 100 different types of atoms.

In the Periodic Table, find an element named after a:

1. Country, state or city - _____
2. Famous scientist - _____
3. God - _____

In the Periodic Table, find an element whose symbol is the:

1. First letter of the element's name – _____
2. First 2 letters of the element's name – _____
3. Latin name of the element (not like the element's name) - _____

COMMON ELEMENTS

<i>Element Symbol</i>	<i>Element Name</i>	<i>Element Symbol</i>	<i>Element Name</i>
H		Mn	
He		Fe	
Li		Co	
C		Ni	
N		Cu	
O		Zn	
F		Br	
Ne		Ag	
Na		Sn	
Mg		I	
Al		Ba	
Si		W	

P		Pt	
S		Au	
Cl		Hg	
Ar		Pb	
K		Cr	
Ca		Ti	
Pu		U	

NAMING COMPOUNDS

PREFIX OR SUFFIX	MEANING	EXAMPLE
Mono-	There is 1 atom of that type in that molecule	CO - Carbon <i>monoxide</i>
Di-	There are 2 atoms of that type in the molecule	CO ₂ - Carbon <i>dioxide</i>
Bi-	Hydrogen is present in the molecule	Na H CO ₃ - Sodium <i>bicarbonate</i>
-ide	There are only 2 types of atoms present in the molecule	Na Cl - Sodium <i>chloride</i>
-ate	There are 3 or more types of atoms in the molecule, and 1 type is oxygen	Ca CO ₃ - Calcium <i>carbonate</i>

VALENCY TABLE

1+	2+	3+	1-	2-	3-
H ¹⁺	Mg ²⁺	Al ³⁺	F ¹⁻	O ²⁻ oxide	PO ₄ ³⁻ phosphate
Na ¹⁺	Ca ²⁺	Fe ³⁺ ferric	Cl ¹⁻	S ²⁻ sulphide	
Li ¹⁺	Cu ²⁺		Br ¹⁻	CO ₃ ²⁻ carbonate	
K ¹⁺	Zn ²⁺		OH ¹⁻ hydroxide	SO ₄ ²⁻ sulphate	
Ag ¹⁺	Pb ²⁺		NO ₃ ¹⁻ nitrate		
NH ₄ ¹⁺ ammonium	Fe ²⁺ ferrous		HCO ₃ ¹⁻ bicarbonate		

EXAMPLES OF CHEMICAL COMPOUNDS

CHEMICAL FORMULA	CHEMICAL NAME
CO ₂	
CO	
Na Cl	
Cu O	
Ag Br	
K I	

H Cl	
NH ₄ Cl	
K OH	
Na OH	
Ca (OH) ₂	
Ca S	
Na NO ₃	
	hydrogen nitrate (nitric acid)
	sodium bicarbonate
	zinc sulphate
	magnesium carbonate
	calcium sulphate
	copper carbonate
	aluminium phosphate
	iron sulphate
	iron carbonate
	ammonium nitrate
	ammonium bicarbonate
	hydrogen sulphate (sulphuric acid)
	sodium sulphate
	ammonium carbonate