Elements and Ions

MEMORIZE EVERYTHING ON THIS PAGE! *MAKE FLASH CARDS TO HELP YOU!* SPELLING COUNTS! NOTE: Ion charges for Main Group (A) elements can also be determined using the periodic table.

NAME	CHEMICAL SYMBOL
Aluminum atom	Al
Aluminum ion	Al^{3+}
Barium atom	Ba
Barium ion	Ba^{2+}
Bromine atom	Br
Bromide ion	Br^{1-}
Calcium atom	Ca
Calcium ion	Ca^{2+}
Chlorine atom	Cl
Chloride ion	Cl^{1-}
Chlorine molecule	Cl_2
Chromium atom	Cr
Copper atom	Cu
Copper ions:	
Copper(I)	Cu^{1+}
Copper(II)	Cu^{2+}
Fluorine atom	F
Fluoride ion	F^{1-}
Fluorine molecule	F_2
Gold atom	Au
Hydrogen atom	H
Hydrogen ion	H^{1+}
Hydride ion	H^{1-}
Hydrogen molecule	H_2
Iodine atom	I
Iodide ion	I^{1-}
Iodine molecule	I_2
Iron atom	Fe
Iron ions:	
Iron(II)	Fe^{2+}
Iron(III)	Fe^{3+}
Lead atom	Pb
Lead ions:	
Lead(II)	Pb^{2+}
Lead(IV)	Pb^{4+}
Magnesium atom	Mg
Magnesium ion	Mg^{2+}
Nickel atom	Ni
Nickel ions:	
Nickel(II)	Ni^{2+}
Nickel(III)	Ni^{3+}
Nitrogen atom	N
Nitride ion	N^{3-}
Nitrogen molecule	N_2
Oxygen atom	O
Oxide ion	O^{2-}
Oxygen molecule	O_2
Platinum atom	Pt
Potassium atom	K
Potassium ion	K^{1+}
Silver atom	Ag
Silver ion	Ag^{1+}
Sodium atom	Na
Sodium ion	Na^{1+}
Strontium atom	Sr
Strontium ion	Sr^{2+}
Sulfur atom	S
Sulfide ion	S^{2-}
Sulfur molecule	S_8
Tin atom	Sn
Tungsten atom	W
Zinc atom	Zn
Zinc ion	Zn^{2+}
Mercury atom	Hg
Mercury ions:	
Mercury(I)	Hg_2^{2+}
Mercury(II)	Hg^{2+}
Phosphorus atom	P
Phosphorus molecule	P_4

POLYATOMIC IONS

(1-) charge	(2-) charge	(3-) charge	(1+) charge
Acetate ion $C_2H_3O_2^{1-}$	*Carbonate ion CO_3^{2-}*	*Borate ion BO_3^{3-}*	*Ammonium ion NH_4^{1+}*
Chlorate ion ClO_3^{1-}	*Chromate ion CrO_4^{2-}*	*Phosphate ion PO_4^{3-}*	*Hydronium ion H_3O^{1+}*
Cyanide ion CN^{1-}	*Sulfate ion SO_4^{2-}*		
Hydroxide ion OH^{1-}			
Nitrate ion NO_3^{1-}			
Permanganate ion MnO_4^{1-}			