

Polyatomic Ions									
NH_4^+ Ammonium	HCO_3^- Hydrogen carbonate (bicarbonate)	OH^- Hydroxide							
CH_3COO^- Acetate	HSO_4^- Hydrogen sulfate (bisulfate)	ClO^- Hypochlorite							
CO_3^{2-} Carbonate	HS^- Hydrogen sulphide (bisulfide)	NO_3^- Nitrate							
ClO_3^- Chlorate	$H_2SO_3^-$ Hydrogen sulfite (bisulfite)	NO_2^- Nitrite							
ClO_2^- Chlorite	PO_4^{3-} Phosphate	ClO_4^- Perchlorate							
CrO_4^{2-} Chromate	PO_3^{3-} Phosphite	MnO_4^- Permanganate							
CN^- Cyanide	SO_4^{2-} Sulfate	PO_3^{2-} Phosphite							
$Cr_2O_7^{2-}$ Dichromate	SO_3^{2-} Sulfite								
Acids									
HCl Hydrochloric acid									
H_2SO_4 Sulfuric acid									
HNO_3 Nitric Acid									
HCH_3COO Acetic acid									

1 +1 H Hydrogen 1.0	1 +1 H Hydrogen 1.0								
3 +1 Li Lithium 6.9	4 +2 Be Beryllium 9.0								
11 +1 Na Sodium 23.0	12 +2 Mg Magnesium 24.3								
19 +1 K Potassium 39.1	20 +2 Ca Calcium 40.1	21 +3 Sc Scandium 45.0	22 +4 Ti Titanium 47.9	23 +5 V Vanadium 50.9	24 +3 Cr Chromium 52.0	25 +2 Mn Manganese 54.9	26 +3 Fe Iron 55.8	27 +2 Co Cobalt 58.9	
37 +1 Rb Rubidium 85.5	38 +2 Sr Strontium 87.6	39 +3 Y Yttrium 88.9	40 +4 Zr Zirconium 91.2	41 +3 Nb Niobium 92.9	42 +2 Mo Molybdenum 95.9	43 +7 Tc Technetium (98)	44 +3 Ru Ruthenium 101.1	45 +3 Rh Rhodium 102.9	
55 +1 Cs Cesium 132.9	56 +2 Ba Barium 137.3	57 +3 La Lanthanum 138.9	72 +4 Hf Hafnium 178.5	73 +5 Ta Tantalum 180.9	74 +6 W Tungsten 183.8	75 +4 Re Rhenium 186.2	76 +3 Os Osmium 190.2	77 +3 Ir Iridium 192.2	
87 +1 Fr Francium (223)	88 +2 Ra Radium (226)	89 +3 Ac Actinium (227)	104 Rf Rutherfordium (261)	105 Db Dubnium (262)	106 Sg Seaborgium (263)	107 Bh Bohrium (262)	108 Hs Hassium (265)	109 Mt Meitnerium (266)	
Alkali Metals (Alkali)		Alkaline Earth Metals							
87 Fr Francium +1 (223)									
58 +3 Ce Cerium 140.1	59 +3 Pr Praseodymium 140.9	60 +3 Nd Neodymium 144.2	61 +3 Pm Promethium (145)	62 +3 Sm Samarium 150.4					
90 +4 Th Thorium 232.0	91 +5 Pa Protactinium 231.0	92 +6 U Uranium 238.0	93 +5 Np Neptunium (237)	94 +4 Pu Plutonium (244)					

Based on mass of C-12 at 12.00.

Any value in parentheses is the mass of the most stable or best known isotope for elements which do not occur naturally.

METALS ← → NON-METALS									
Atomic Number									
Atomic Mass									
8 2 - O Oxygen 16.0									
5 +3 B Boron 10.8	6 +4 C Carbon 12.0	7 -3 N Nitrogen 14.0	8 -2 O Oxygen 16.0	9 -1 F Fluorine 19.0	10 0 Ne Neon 20.2				
13 +3 Al Aluminum 27.0	14 +4 Si Silicon 28.1	15 -3 P Phosphorus 31.0	16 -2 S Sulphur 32.1	17 -1 Cl Chlorine 35.5	18 0 Ar Argon 39.9				
28 +2 Ni Nickel 58.7	29 +2 Cu Copper 63.5	30 +2 Zn Zinc 65.4	31 +3 Ga Gallium 69.7	32 +4 Ge Germanium 72.6	33 -3 As Arsenic 74.9	34 -2 Se Selenium 79.0	35 -1 Br Bromine 79.9	36 0 Kr Krypton 83.8	
46 +2 Pd Palladium 106.4	47 +1 Ag Silver 107.9	48 +2 Cd Cadmium 112.4	49 +3 In Indium 114.8	50 +4 Sn Tin 118.7	51 +3 Sb Antimony 121.8	52 -2 Te Tellurium 127.6	53 -1 I Iodine 126.9	54 0 Xe Xenon 131.3	
78 +4 Pt Platinum 195.1	79 +3 Au Gold 197.0	80 +2 Hg Mercury 200.6	81 +1 Tl Thallium 204.4	82 +2 Pb Lead 207.2	83 +3 Bi Bismuth 209.0	84 +2 Po Polonium (209)	85 -1 At Astatine (210)	86 0 Rn Radon (222)	
You never see these elements #110-118									
								Halogens Noble Gases	
ptable.com									
63 +3 Eu Europium 152.0	64 +3 Gd Gadolinium 157.3	65 +3 Tb Terbium 158.9	66 +3 Dy Dysprosium 162.5	67 +3 Ho Holmium 164.9	68 +3 Er Erbium 167.3	69 +3 Tm Thulium 168.9	70 +3 Yb Ytterbium 173.0	71 +3 Lu Lutetium 175.0	
95 +3 Am Americium (243)	96 +3 Cm Curium (247)	97 +3 Bk Berkelium (247)	98 +3 Cf Californium (251)	99 +3 Es Einsteinium (252)	100 +3 Fm Fermium (257)	101 +2 Md Mendelevium (258)	102 +2 No Nobelium (259)	103 +3 Lr Lawrencium (262)	