Periodic Table of the Elements

Polyatomic Ions

acetate	$C_2H_3O_2^-$	iodate	IO_3^-
ammonium	NH_4^+	nitrate	NO_3^-
borate	BO_3^{3-}	nitrite	NO_2^-
carbonate	CO_3^{2-}	oxalate	$C_2O_4^{2-}$
carbonite	CO_2^{2-}	permanganate	MnO_4^-
hydrogen carbonate	HCO_3^-	phosphate	PO_4^{3-}
chlorate	ClO_3^-	phosphite	PO_3^{3-}
chlorite	ClO_2^-	hydrogen phosphate	HPO_4^{2-}
hypochlorite	ClO^-	dihydrogen phosphate	$H_2PO_4^-$
perchlorate	ClO_4^-	sulphate	SO_4^{2-}
chromate	CrO_4^{2-}	sulphite	SO_3^{2-}
dichromate	$Cr_2O_7^{2-}$	hydrogen sulphate	HSO_4^-
cyanide	CN^-	hydrogen sulphite	HSO_3^-
hydroxide	OH^-	thiocyanate	SCN^-

1 +1 -1 **H** Hydrogen 1.008																	2 **He** Helium 4.003
3 +1 **Li** Lithium 6.939	4 +2 **Be** Beryllium 9.012											5 +3 **B** Boron 10.81	6 +4 **C** Carbon 12.01	7 -3 **N** Nitrogen 14.01	8 -2 **O** Oxygen 16.00	9 -1 **F** Fluorine 19.00	10 **Ne** Neon 20.18
11 +1 **Na** Sodium 22.99	12 +2 **Mg** Magnesium 24.31											13 +3 **Al** Aluminum 26.98	14 +4 **Si** Silicon 28.09	15 -3 **P** Phosphorus 30.97	16 -2 **S** Sulphur 32.06	17 -1 **Cl** Chlorine 35.45	18 **Ar** Argon 39.95
19 +1 **K** Potassium 39.10	20 +2 **Ca** Calcium 40.08	21 +3 **Sc** Scandium 44.96	22 +3 +4 **Ti** Titanium 47.90	23 +2 +3 **V** Vanadium 50.94	24 +2 +3 **Cr** Chromium 52.00	25 +2 +4 **Mn** Manganese 54.94	26 +2 +3 **Fe** Iron 55.85	27 +2 +3 **Co** Cobalt 58.93	28 +2 +3 **Ni** Nickel 58.71	29 +1 +2 **Cu** Copper 63.55	30 +2 **Zn** Zinc 65.38	31 +3 **Ga** Gallium 69.72	32 +4 **Ge** Germanium 72.59	33 -3 **As** Arsenic 74.92	34 -2 **Se** Selenium 78.96	35 -1 **Br** Bromine 79.91	36 **Kr** Krypton 83.80
37 +1 **Rb** Rubidium 85.47	38 +2 **Sr** Strontium 87.62	39 +3 **Y** Yttrium 88.91	40 +4 **Zr** Zirconium 91.22	41 +3 +5 **Nb** Niobium 92.91	42 +2 +3 **Mo** Molybdenum 95.94	43 +7 **Tc** Technetium 98.91	44 +3 +4 **Ru** Ruthenium 101.1	45 +3 +4 **Rh** Rhodium 102.9	46 +2 +4 **Pd** Palladium 106.4	47 +1 **Ag** Silver 107.9	48 +2 **Cd** Cadmium 112.4	49 +3 **In** Indium 114.8	50 +2 +4 **Sn** Tin 118.7	51 -3 **Sb** Antimony 121.8	52 -2 **Te** Tellurium 127.6	53 -1 **I** Iodine 126.9	54 **Xe** Xenon 131.3
55 +1 **Cs** Cesium 132.9	56 +2 **Ba** Barium 137.3	71 +3 **Lu** Lutetium 175.0	72 +4 **Hf** Hafnium 178.5	73 +5 **Ta** Tantalum 180.9	74 +6 **W** Tungsten 183.9	75 +4 +7 **Re** Rhenium 186.2	76 +3 +4 **Os** Osmium 190.2	77 +3 +4 **Ir** Iridium 192.2	78 +2 +4 **Pt** Platinum 195.1	79 +1 +3 **Au** Gold 197.0	80 +1 +2 **Hg** Mercury 200.6	81 +1 +3 **Tl** Thallium 204.4	82 +2 +4 **Pb** Lead 207.2	83 -3 **Bi** Bismuth 209.0	84 +2 +4 **Po** Polonium 209.0	85 -1 **At** Astatine 210.1	86 **Rn** Radon 222.0
87 +1 **Fr** Francium 223.0	88 +2 **Ra** Radium 226.0	103 +3 **Lr** Lawrencium 262	104 **Rf** Rutherfordium 261	105 **Db** Dubnium 262	106 **Sg** Seaborgium 266	107 **Bh** Bohrium 264	108 **Hs** Hassium 269	109 **Mt** Meitnerium 268	110 **Ds** Darmstadtium 271	111 **Rg** Roentgenium 272							

57 +3 **La** Lanthanum 138.9	58 +3 +4 **Ce** Cerium 140.1	59 +3 +4 **Pr** Praseodymium 140.9	60 +3 **Nd** Neodymium 144.2	61 +3 **Pm** Promethium 144.9	62 +2 +3 **Sm** Samarium 150.4	63 +2 +3 **Eu** Europium 152.0	64 +3 **Gd** Gadolinium 157.3	65 +3 +4 **Tb** Terbium 158.9	66 +3 **Dy** Dysprosium 162.5	67 +3 **Ho** Holmium 164.9	68 +3 **Er** Erbium 167.3	69 +2 +3 **Tm** Thulium 168.9	70 +2 +3 **Yb** Ytterbium 173.0
89 +3 **Ac** Actinium 227.0	90 +4 **Th** Thorium 232.0	91 +4 +5 **Pa** Protactinium 231.0	92 +4 +6 +5 **U** Uranium 238.0	93 +3 +5 +4 +6 **Np** Neptunium 237.0	94 +3 +5 +4 +6 **Pu** Plutonium 242.1	95 +3 +5 +4 +6 **Am** Americium 243.1	96 +3 **Cm** Curium 247.1	97 +3 +4 **Bk** Berkelium 247.1	98 +3 **Cf** Californium 251.1	99 +3 **Es** Einsteinium 252.1	100 +3 **Fm** Fermium 257.1	101 +2 +3 **Md** Mendelevium 258.1	102 +2 +3 **No** Nobelium 259.1