

IA													VIII					
1 H 1.008 Hydrogen												2 He 4.003 Helium						
3 Li 6.939 Lithium	4 Be 9.012 Beryllium												5 B 10.81 Boron	6 C 12.01 Carbon	7 N 14.01 Nitrogen	8 O 16.00 Oxygen	9 F 19.00 Fluorine	10 Ne 20.18 Neon
11 Na 22.99 Sodium	12 Mg 24.31 Magnesium	III A	IV B	V B	VI B	VII B	VIII ----			IB	II B	13 Al 26.98 Aluminium	14 Si 28.09 Silicon	15 P 30.97 Phosphorus	16 S 32.06 Sulphur	17 Cl 35.45 Chlorine	18 Ar 39.95 Argon	
19 K 39.10 Potassium	20 Ca 40.08 Calcium	21 Sc 44.96 Scandium	22 Ti 47.90 Titanium	23 V 50.94 Vanadium	24 Cr 52.00 Chromium	25 Mn 54.94 Manganese	26 Fe 55.85 Iron	27 Co 58.93 Cobalt	28 Ni 58.71 Nickel	29 Cu 63.55 Copper	30 Zn 65.38 Zinc	31 Ga 69.72 Gallium	32 Ge 72.59 Germanium	33 As 74.92 Arsenic	34 Se 78.96 Selenium	35 Br 79.91 Bromine	36 Kr 83.80 Krypton	
37 Rb 85.47 Rubidium	38 Sr 87.62 Strontium	39 Y 88.91 Yttrium	40 Zr 91.22 Zirconium	41 Nb 92.91 Niobium	42 Mo 95.94 Molybdenum	43 Tc 98.91 Technetium	44 Ru 101.1 Ruthenium	45 Rh 102.9 Rhodium	46 Pd 106.4 Palladium	47 Ag 107.9 Silver	48 Cd 112.4 Cadmium	49 In 114.8 Indium	50 Sn 118.7 Tin	51 Sb 121.8 Antimony	52 Te 127.6 Tellurium	53 I 126.9 Iodine	54 Xe 131.3 Xenon	
55 Cs 132.9 Cesium	56 Ba 137.3 Barium	71 Lu 175.0 Lutetium	72 Hf 178.5 Hafnium	73 Ta 180.9 Tantalum	74 W 183.9 Tungsten	75 Re 186.2 Rhenium	76 Os 190.2 Osmium	77 Ir 192.2 Iridium	78 Pt 195.1 Platinum	79 Au 197.0 Gold	80 Hg 200.6 Mercury	81 Tl 204.4 Thallium	82 Pb 207.2 Lead	83 Bi 209.0 Bismuth	84 Po (209) Polonium	85 At (210) Astatine	86 Rn (222) Radon	
87 Fr (223) Francium	88 Ra 226.0 Radium	103 Lr (262) Lawrencium	104 Rf 261.11 Rutherfordium	105 Db 262.11 Dubnium	106 Sg 263.12 Seaborgium	107 Bh 262.12 Bohrium	108 Hs (265) Hassium	109 Mt (266) Meitnerium	110 Ds (281) Darmstadtium	111 Rg (272) Roentgenium	112 Uub (285) Ununbium	113 Uut (284) Ununtrium	114 Uuq (289) Ununquadium	115 Uup (288) Ununpentium	116 Uuh (292) Ununhexium	117 Uuhs (293) Ununseptium	118 Uuo (293) Ununoctium	
<i>Alkali Metals</i>	<i>Alkaline earth metals</i>	57 La 138.9 Lanthanum	58 Ce 140.01 Cerium	59 Pr 140.9 Praseodymium	60 Nd 144.2 Neodymium	61 Pm (145) Promethium	62 Sm 150.4 Samarium	63 Eu 152.0 Europium	64 Gd 157.3 Gadolinium	65 Tb 158.9 Terbium	66 Dy 162.5 Dysprosium	67 Ho 164.9 Holmium	68 Er 167.3 Erbium	69 Tm 168.9 Thulium	70 Yb 173.0 Ytterbium	<i>Noble Gases</i>		
		89 Ac (227) Actinium	90 Th 232.0 Thorium	91 Pa (231) Protactinium	92 U 238.03 Uranium	93 Np (237) Neptunium	94 Pu (244) Plutonium	95 Am (243) Americium	96 Cm (247) Curium	97 Bk (247) Berkelium	98 Cf (251) Californium	99 Es (252) Einsteinium	100 Fm (257) Fermium	101 Md (258) Mendelevium	102 No (259) Nobelium			

Legend

Non metals
Transition metals
Other metals
Noble gases
Lanthanides
Actinides

Legend		Combining capacity	
Atomic number	1	+1	
Symbol	H	-1	
Relative atomic mass	1.008		
Name	Hydrogen		

Polyatomic Ions

(CNDS BC P PHANS)

ClO ₃ ⁻¹ = chlorate	NO ₃ ⁻¹ = nitrate
Cr ₂ O ₇ ⁻² = dichromate	SO ₄ ⁻² = sulphate
HCO ₃ ⁻¹ = bicarbonate	CO ₃ ⁻² = carbonate
PO ₄ ⁻³ = phosphate	PO ₃ ⁻³ = phosphite
OH ⁻¹ = hydroxide	NH ₄ ⁺¹ = ammonium
NO ₂ ⁻¹ = nitrite	SO ₃ ⁻² = sulfite

http://www.nrc-cnrc.gc.ca/randd/education/elements/index_e.html

Periodic Table of the Elements – National Research Council Canada

<http://members.shaw.ca/cpf99/Periodic-Table-Info-Anvil-City-Science-Academy.htm>

Predicting Types of Bonds (capacity).

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