

PERIODIC CHART OF THE ELEMENTS

IA																	VIIA		Noble Gases	
1 H 1.0079	IIA										IIIA				IVA	VA	VIA	1 H 1.0079	2 He 4.002602	
3 Li 6.941	4 Be 9.012182											5 B 10.81	6 C 12.011	7 N 14.0067	8 O 15.9994	9 F 18.998403	10 Ne 20.180			
11 Na 22.98977	12 Mg 24.305	IIIB	IVB	VB	VIB	VII B (VIII B)	IB	IIB	13 Al 26.98154	14 Si 28.0855	15 P 30.973762	16 S 32.07	17 Cl 35.453	18 Ar 39.948	
19 K 39.0983	20 Ca 40.078	21 Sc 44.95591	22 Ti 47.88	23 V 50.9415	24 Cr 51.996	25 Mn 54.93805	26 Fe 55.847	27 Co 58.93320	28 Ni 58.6934	29 Cu 63.546	30 Zn 65.39	31 Ga 69.723	32 Ge 72.61	33 As 74.92159	34 Se 78.96	35 Br 79.904	36 Kr 83.80			
37 Rb 85.4678	38 Sr 87.62	39 Y 88.90585	40 Zr 91.224	41 Nb 92.90638	42 Mo 95.94	43 Tc [97.9072]	44 Ru 101.07	45 Rh 102.90550	46 Pd 106.42	47 Ag 107.8682	48 Cd 112.41	49 In 114.818	50 Sn 118.71	51 Sb 121.757	52 Te 127.60	53 I 126.90447	54 Xe 131.29			
55 Cs 132.9054	56 Ba 137.33	57 *La 138.9055	72 Hf 178.49	73 Ta 180.9479	74 W 183.84	75 Re 186.207	76 Os 190.23	77 Ir 192.22	78 Pt 195.08	79 Au 196.96654	80 Hg 200.59	81 Tl 204.3833	82 Pb 207.2	83 Bi 208.98037	84 Po [208.9824]	85 At [209.9871]	86 Rn [222.0176]			
87 Fr [223.0197]	88 Ra [226.0254]	89 **Ac [227.0278]	104 Rf [261.11]	105 Db [262.114]	106 Sg [263.118]	107 Bh [262.12]	108 Hs [265]	109 Mt [266]												

*Lanthanides	58 Ce 140.115	59 Pr 140.90765	60 Nd 144.24	61 Pm [144.9127]	62 Sm 150.36	63 Eu 151.97	64 Gd 157.25	65 Tb 158.92534	66 Dy 162.50	67 Ho 164.93032	68 Er 167.26	69 Tm 168.93421	70 Yb 173.04	71 Lu 174.967
**Actinides	90 Th 232.0381	91 Pa 231.03588	92 U 238.0289	93 Np [237.0482]	94 Pu [244.0642]	95 Am [243.0614]	96 Cm [247.0703]	97 Bk [247.0703]	98 Cf [251.0796]	99 Es [252.083]	100 Fm [257.0951]	101 Md [258.10]	102 No [259.1009]	103 Lr [262.11]

[] = When an element has no characteristic terrestrial distribution of natural isotopes, the atomic mass is given in brackets and is the mass of the element's most stable isotope.

Outline symbol = not found in nature.

Atomic weights are taken from *Pure & Appl. Chem.*, 64, 1524-28, (1992). Atomic weights have an uncertainty of no greater than 4 in the last figure.