

Charge = group - 8
#

Group ↑

Period ↔

Group # = Charge

Periodic Table of the Elements

halogen
noble gases

IA IIA IIIA IVA VA VIA VIIA VIIIA

transition - do not memorize these element symbols except metals

alkali metal
alkaline earth

lanthanides + actinides - do not memorize these

1	2	3	4	5	6	7	8	9	10
1 H 1.00794	2 He 4.002602	3 Li 6.941	4 Be 9.012182	5 B 10.811	6 C 12.0107	7 N 14.00674	8 O 15.9994	9 F 18.9984032	10 Ne 20.1797
11 Na 22.989770	12 Mg 24.3050	13 Al 26.981538	14 Si 28.0855	15 P 30.973761	16 S 32.066	17 Cl 35.4527	18 Ar 39.948	19 K 39.0983	20 Ca 40.078
21 Sc 44.955910	22 Ti 47.867	23 V 50.9415	24 Cr 51.9961	25 Mn 54.938045	26 Fe 55.845	27 Co 58.933200	28 Ni 58.6934	29 Cu 63.546	30 Zn 65.38
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 98	44 Ru 101.07	45 Rh 102.90550	46 Pd 106.42
55 Cs 132.90545	56 Ba 137.327	57 La 138.9055	58 Ce 140.116	59 Pr 140.90765	60 Nd 144.24	61 Pm (145)	62 Sm 150.36	63 Eu 151.964	64 Gd 157.25
87 Fr (223)	88 Ra (226)	89 Ac (227)	90 Th 232.0381	91 Pa 231.03588	92 U 238.0289	93 Np (237)	94 Pu (244)	95 Am (243)	96 Cm (247)
85 At (210)	86 Rn (222)	87 Fr (223)	88 Ra (226)	89 Ac (227)	90 Th (232)	91 Pa (231)	92 U (238)	93 Np (237)	94 Pu (244)
116 Lv (293)	117 Ts (294)	118 Og (294)	119 Nh (295)	120 Fl (299)	121 Mc (298)	122 Lv (293)	123 Ten (293)	124 Oganesson (294)	125 Unbinilium (295)

element symbols

S.E. Van Bramer, 7/22/99

1995 IUPAC masses and Approved Names from <http://www.chem.qmw.ac.uk/iupac/AtW/>

masses for 107-111 from C&EN, March 13, 1995, p.35

112 from <http://www.gsi.de/z112e.html>

114 from C&EN July 19, 1999

116 and 118 from <http://www.lbl.gov/Science-Articles/Archive/elements-116-118.html>

learn element symbols NOT numbers