

SCIENCE *periodic table of the elements*

GROUP	Transition Metals										Main Group Elements												
1 IA	2 IIA	3 IIIB	4 IVB	5 VB	6 VIB	7 VIIB	8 VIII	9 VIII	10 VIII	11 IB	12 IIB	13 IIIA	14 IVA	15 VA	16 VIA	17 VIIA	18 VIIIA						
Atomic Number	Atomic Number	Atomic Number	Atomic Number	Atomic Number	Atomic Number	Atomic Number	Atomic Number	Atomic Number	Atomic Number	Atomic Number	Atomic Number	Atomic Number	Atomic Number	Atomic Number	Atomic Number	Atomic Number	Atomic Number						
Element Name	Element Name	Element Name	Element Name	Element Name	Element Name	Element Name	Element Name	Element Name	Element Name	Element Name	Element Name	Element Name	Element Name	Element Name	Element Name	Element Name	Element Name						
Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol						
1 H hydrogen [1.007, 1.009]	2 He helium 4.003	3 Li lithium 6.938, 6.997	4 Be beryllium 9.012	5 B boron [10.80, 10.83]	6 C carbon [12.00, 12.02]	7 N nitrogen [14.00, 14.01]	8 O oxygen [15.99, 16.00]	9 F fluorine 19.00	10 Ne neon 20.18	11 Na sodium [23.30, 24.31]	12 Mg magnesium 24.30	13 Al aluminum 26.98	14 Si silicon [28.08, 28.09]	15 P phosphorus 30.97	16 S sulfur [32.05, 32.08]	17 Cl chlorine [35.44, 35.46]	18 Ar argon 39.95						
19 K potassium 39.10	20 Ca calcium 40.08	21 Sc scandium 44.96	22 Ti titanium 47.87	23 V vanadium 50.94	24 Cr chromium 52.00	25 Mn manganese 54.94	26 Fe iron 55.85	27 Co cobalt 58.93	28 Ni nickel 58.69	29 Cu copper 63.55	30 Zn zinc 65.38	31 Ga gallium 69.72	32 Ge germanium 72.63	33 As arsenic 74.92	34 Se selenium 78.97	35 Br bromine [79.90, 79.91]	36 Kr krypton 83.80						
37 Rb rubidium 85.47	38 Sr strontium 87.62	39 Y yttrium 88.91	40 Zr zirconium 91.22	41 Nb niobium 92.91	42 Mo molybdenum 95.95	43 Tc technetium (97.91)	44 Ru ruthenium 101.07	45 Rh rhodium 101.07	46 Pd palladium 106.42	47 Ag silver 107.87	48 Cd cadmium 112.41	49 In indium 114.82	50 Sn tin 118.71	51 Sb antimony 121.76	52 Te tellurium 127.6	53 I iodine 126.9	54 Xe xenon 131.3						
55 Cs caesium 132.9	56 Ba barium 137.3	57-71 Lanthanoids	72 Hf hafnium 178.5	73 Ta tantalum 180.9	74 W tungsten 183.8	75 Re rhenium 186.2	76 Os osmium 190.2	77 Ir iridium 192.2	78 Pt platinum 195.08	79 Au gold 197.0	80 Hg mercury 200.59	81 Tl thallium [204.3, 204.4]	82 Pb lead 207.2	83 Bi bismuth 208.98	84 Po polonium (209)	85 At astatine (210)	86 Rn radon (222)						
87 Fr francium (223)	88 Ra radium (226)	89-103 Actinoids	104 Rf rutherfordium (261)	105 Db dubnium (268)	106 Sg seaborgium (271)	107 Bh bohrium (272)	108 Hs hassium (277)	109 Mt meitnerium (276)	110 Ds darmstadtium (285)	111 Rg roentgenium (280)	112 Cn copernicium (285)	113 Nh nihonium (284)	114 Fl flerovium (289)	115 Mc moscovium (288)	116 Lv livermorium (293)	117 Ts tennessine (294)	118 Og oganesson (294)						
71 Lu lutetium 174.9668	72 Hf hafnium 178.49	73 Tm thulium 168.93422	74 Yb ytterbium 173.054	75 Er erbium 167.259	76 Tm thulium 168.93422	77 Yb ytterbium 173.054	78 Lu lutetium 174.9668	79 Hf hafnium 178.49	80 Ta tantalum 180.94788	81 W tungsten 183.84	82 Re rhenium 186.207	83 Os osmium 190.23	84 Ir iridium 192.225	85 Pt platinum 195.084	86 Au gold 196.96657	87 Hg mercury 200.59	88 Tl thallium 204.38	89 Pb lead 207.2	90 Bi bismuth 208.9804	91 Po polonium (209)	92 At astatine (210)	93 Rn radon (222)	
103 Lr lawrencium (262)	104 Rf rutherfordium (261)	105 Db dubnium (268)	106 Sg seaborgium (271)	107 Bh bohrium (272)	108 Hs hassium (277)	109 Mt meitnerium (276)	110 Ds darmstadtium (285)	111 Rg roentgenium (280)	112 Cn copernicium (285)	113 Nh nihonium (284)	114 Fl flerovium (289)	115 Mc moscovium (288)	116 Lv livermorium (293)	117 Ts tennessine (294)	118 Og oganesson (294)	119 Uue unbinilium (304)	120 Uub ununilium (304)	121 Uut ununilium (304)	122 Uuq ununilium (304)	123 Uup ununilium (304)	124 Uuq ununilium (304)	125 Uup ununilium (304)	126 Uuq ununilium (304)

Group IA (excluding Hydrogen) comprises the alkali metals.
 Group IIA comprises the alkaline-earth metals.
 Group VIIA comprises the noble gases.

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* IUPAC conventional atomic weights; standard atomic weights for these elements are expressed in intervals; see iupac.org for an explanation and values. ** Numbering system adopted by IUPAC. *** Numbering system widely used from the mid-20th century. () indicates the mass number of the longest-lived isotope.

Source: The International Union of Pure and Applied Chemistry (IUPAC), Encyclopaedia Britannica, and others.