

Periodic table



From Wikipedia, the free encyclopedia

This article is about the table used in chemistry and physics. For other uses, see [Periodic table \(disambiguation\)](#).

The **periodic table**, also known as the **periodic table of the (chemical) elements**, is a tabular display of the [chemical elements](#). It is widely used in [chemistry](#), [physics](#), and other sciences, and is generally seen as an [icon](#) of chemistry. It is a graphic formulation of the periodic law, which states that the properties of the chemical elements exhibit a [periodic](#) dependence on their

[atomic numbers](#). The table is divided into four roughly rectangular areas called [blocks](#). The rows of the table are called [periods](#), and the columns are called [groups](#). Elements from the same column group of the periodic table show similar chemical characteristics. [Trends](#) run through the periodic table, with [nonmetallic](#) character (keeping their own electrons) increasing from left to right across a period, and from down to up across a group, and [metallic](#) character (surrendering electrons to other atoms) increasing in the opposite direction. The

Group	→ 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Period	↓																	
1	1 H																	2 He
2	3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne
3	11 Na	12 Mg											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar
4	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
5	37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe
6	55 Cs	56 Ba	* 71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
7	87 Fr	88 Ra	* 103 Lr	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113 Nh	114 Fl	115 Mc	116 Lv	117 Ts	118 Og
			* 57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb		
			* 89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No		

Periodic table of the chemical elements