

Extended Periodic Table

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v. 1.3

notes

- as of yet, elements 119-173 have no official name as they have not been synthesised or found in nature before 25/3/2023.
- for now they have been given a provisional name and symbol. elements 167-170 electron configurations are [Og]... and 171-172 [Og] 5g¹⁸...
- 1 kJ/mol ≈ 96.485eV.
- diatomic elements are highlighted in a darker colour.
- electron configurations for elements 109+ are predicted.
- all elements above 118 are completely theoretical, may also be incomplete, and ends at 173 as the dirac equation presents problems above that point.
- elements 121+ electronegativity are not 0.00 but haven't been calculated yet.

Hydrogen group Alkali Metals	group 1
Boron group [13]	group 2
Lithide series	2
Sodide series	3
Potasside series	4
Runide series	5
Caeside series	6
Francide series	7
Newtonide series	8
Messieride series	9

Alkali Metals	group 2
Beryllium group	[2]
Lithium (s)	[He] 2s ¹
Beryllium (s)	[He] 2s ²
Sodium (s)	[Ne] 3s ¹
Magnesium (s)	[Ne] 3s ²
Potassium (s)	[Ar] 4s ¹
Calcium (s)	[Ar] 4s ²
Rubidium (s)	[Kr] 5s ¹
Strontium (s)	[Kr] 5s ²
Caesium (s)	[Xe] 6s ¹
Barium (s)	[Xe] 6s ²
Francium (s)	[Rn] 7s ¹
Radium (s)	[Rn] 7s ²
Newtonium [s, l]	[Og] 8s ¹
Gallium [s]	[Og] 8s ²
Messierium [?]	[Og] 8s ²

oxidation states (predicted) most common

atomic mass, m (predicted/most stable mass number)

1st ionisation energy, IE (in kJ/mol)

element symbol

element name

electron configuration

phase at STP (predicted)

synthetic

radioactive

alkali metal

alkaline metal

post transition metals

transition metals

inner transition metals

metalloids

non metals

halogens

noble gases

lavoisoids

[25] (3)	[26] (4)	[27] (5)	[28] (6)	[29] (7)	[30] (8)	[31] (9)	[32] (10)	[33] (11)	[34] (12)	[35] (13)	[36] (14)	[37] (15)	[38] (16)
La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No
Du	Sh	Hb	Da	Bo	Fa	Av	So	Hz	Wt	Dr	Lw	Vh	Hk

[3] (3)	[4] (4)	[5] (5)	[6] (6)	[7] (7)	[8] (8)	[9] (9)	[10] (10)	[11] (11)	[12] (12)	[13] (13)	[14] (14)	[15] (15)	[16] (16)	[17] (17)	[18] (18)	[19] (19)	[20] (20)	[21] (21)	[22] (22)	[23] (23)	[24] (24)
Ls	Dm	Ms	Tu	Dt	Mw	Pk	By	Bz	Fn	Dw	To	Pl	Ah	My	Cv	Fy	Cw	A	Ed	Ab	Bu
Lavoisium [?]	Democritium [?]	Moseium [?]	Teslium [?]	Daltonium [?]	Maxwellium [?]	Planckium [?]	Boyleium [?]	Berzelium [?]	Frankinium [?]	Darwinium [?]	Thomsonium [?]	Paulium [?]	Arrhenium [?]	Meyerium [?]	Cavendishium [?]	Feynmanium [?]	Chadwickium [?]	Astonium [?]	Edisonium [?]	Abegium [?]	Butterovium [?]

Scandide series	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn
Yttride series	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd
Lutetide series	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg
Lewrencide series	Lr	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn
Kelvinide series	Ke	Ap	Vw	Hu	Fh	Ma	Kp	Gb	Bq	Hi

Boride series	B	C	N	O	F	Ne
Alumidine series	Al	Si	P	S	Cl	Ar
Gallide series	Ga	Ge	As	Se	Br	Kr
Indide series	In	Sn	Sb	Te	I	Xe
Thallide series	Tl	Pb	Bi	Po	At	Rn
Nihonide series	Nh	Fl	Mc	Lv	Ts	Og
Kirchoffide series	Kf	Bn	J	Hm	Bs	Rs

subatomic constituents

mass, m _{rest}	938.27	939.57	0.511
charge, q _{mc}	1.602	0	-1.602
mass, m _{rel}	1.67	1.65	9.11
spin	1/2	1/2	1/2

Proton Neutron Electron

