

Elements of the periodic table

Z	Symbol	Name	Atomic weight	Family	Period	Group
1	H	Hydrogen	1.01	nonmetal	1	1
2	He	Helium	4	noble	1	18
3	Li	Lithium	6.94	alkali	2	1
4	Be	Beryllium	9.01	alkaline	2	2
5	B	Boron	10.81	metalloid	2	13
6	C	Carbon	12.01	nonmetal	2	14
7	N	Nitrogen	14.01	nonmetal	2	15
8	O	Oxygen	16	nonmetal	2	16
9	F	Fluorine	19	halogen	2	17
10	Ne	Neon	20.18	noble	2	18
11	Na	Sodium	22.99	alkali	3	1
12	Mg	Magnesium	24.3	alkaline	3	2
13	Al	Aluminium	26.98	post	3	13
14	Si	Silicon	28.09	metalloid	3	14
15	P	Phosphorus	30.97	nonmetal	3	15
16	S	Sulfur	32.06	nonmetal	3	16
17	Cl	Chlorine	35.45	halogen	3	17
18	Ar	Argon	39.95	noble	3	18
19	K	Potassium	39.1	alkali	4	1
20	Ca	Calcium	40.08	alkaline	4	2
21	Sc	Scandium	44.96	transition	4	3
22	Ti	Titanium	47.87	transition	4	4
23	V	Vanadium	50.94	transition	4	5
24	Cr	Chromium	52	transition	4	6
25	Mn	Manganese	54.94	transition	4	7
26	Fe	Iron	55.84	transition	4	8
27	Co	Cobalt	58.93	transition	4	9

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28	Ni	Nickel	58.69	transition	4	10
29	Cu	Copper	63.55	transition	4	11
30	Zn	Zinc	65.38	transition	4	12
31	Ga	Gallium	69.72	post	4	13
32	Ge	Germanium	72.63	metalloid	4	14
33	As	Arsenic	74.92	metalloid	4	15
34	Se	Selenium	78.97	nonmetal	4	16
35	Br	Bromine	79.9	halogen	4	17
36	Kr	Krypton	83.8	noble	4	18
37	Rb	Rubidium	85.47	alkali	5	1
38	Sr	Strontium	87.62	alkaline	5	2
39	Y	Yttrium	88.91	transition	5	3
40	Zr	Zirconium	91.22	transition	5	4
41	Nb	Niobium	92.91	transition	5	5
42	Mo	Molybdenum	95.95	transition	5	6
43	Tc	Technetium	(98)	transition	5	7
44	Ru	Ruthenium	101.07	transition	5	8
45	Rh	Rhodium	102.91	transition	5	9
46	Pd	Palladium	106.42	transition	5	10
47	Ag	Silver	107.87	transition	5	11
48	Cd	Cadmium	112.41	transition	5	12
49	In	Indium	114.82	post	5	13
50	Sn	Tin	118.71	post	5	14
51	Sb	Antimony	121.76	metalloid	5	15
52	Te	Tellurium	127.6	metalloid	5	16
53	I	Iodine	126.9	halogen	5	17
54	Xe	Xenon	131.29	noble	5	18
55	Cs	Caesium	132.91	alkali	6	1
56	Ba	Barium	137.33	alkaline	6	2
57	La	Lanthanum	138.91	lanthanide	6	—

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58	Ce	Cerium	140.12	lanthanide	6	—
59	Pr	Praseodymium	140.91	lanthanide	6	—
60	Nd	Neodymium	144.24	lanthanide	6	—
61	Pm	Promethium	(145)	lanthanide	6	—
62	Sm	Samarium	150.36	lanthanide	6	—
63	Eu	Europium	151.96	lanthanide	6	—
64	Gd	Gadolinium	157.25	lanthanide	6	—
65	Tb	Terbium	158.93	lanthanide	6	—
66	Dy	Dysprosium	162.5	lanthanide	6	—
67	Ho	Holmium	164.93	lanthanide	6	—
68	Er	Erbium	167.26	lanthanide	6	—
69	Tm	Thulium	168.93	lanthanide	6	—
70	Yb	Ytterbium	173.05	lanthanide	6	—
71	Lu	Lutetium	174.97	lanthanide	6	—
72	Hf	Hafnium	178.49	transition	6	4
73	Ta	Tantalum	180.95	transition	6	5
74	W	Tungsten	183.84	transition	6	6
75	Re	Rhenium	186.21	transition	6	7
76	Os	Osmium	190.23	transition	6	8
77	Ir	Iridium	192.22	transition	6	9
78	Pt	Platinum	195.08	transition	6	10
79	Au	Gold	196.97	transition	6	11
80	Hg	Mercury	200.59	transition	6	12
81	Tl	Thallium	204.38	post	6	13
82	Pb	Lead	207.2	post	6	14
83	Bi	Bismuth	208.98	post	6	15
84	Po	Polonium	(209)	post	6	16
85	At	Astatine	(210)	halogen	6	17
86	Rn	Radon	(222)	noble	6	18
87	Fr	Francium	(223)	alkali	7	1

Z	Symbol	Name	Atomic weight	Family	Period	Group
88	Ra	Radium	(226)	alkaline	7	2
89	Ac	Actinium	(227)	actinide	7	—
90	Th	Thorium	232.04	actinide	7	—
91	Pa	Protactinium	231.04	actinide	7	—
92	U	Uranium	238.03	actinide	7	—
93	Np	Neptunium	(237)	actinide	7	—
94	Pu	Plutonium	(244)	actinide	7	—
95	Am	Americium	(243)	actinide	7	—
96	Cm	Curium	(247)	actinide	7	—
97	Bk	Berkelium	(247)	actinide	7	—
98	Cf	Californium	(251)	actinide	7	—
99	Es	Einsteinium	(252)	actinide	7	—
100	Fm	Fermium	(257)	actinide	7	—
101	Md	Mendelevium	(258)	actinide	7	—
102	No	Nobelium	(259)	actinide	7	—
103	Lr	Lawrencium	(266)	actinide	7	—
104	Rf	Rutherfordium	(267)	transition	7	4
105	Db	Dubnium	(268)	transition	7	5
106	Sg	Seaborgium	(269)	transition	7	6
107	Bh	Bohrium	(270)	transition	7	7
108	Hs	Hassium	(269)	transition	7	8
109	Mt	Meitnerium	(278)	unknown	7	9
110	Ds	Darmstadtium	(281)	unknown	7	10
111	Rg	Roentgenium	(282)	unknown	7	11
112	Cn	Copernicium	(285)	transition	7	12
113	Nh	Nihonium	(286)	unknown	7	13
114	Fl	Flerovium	(289)	unknown	7	14
115	Mc	Moscovium	(290)	unknown	7	15
116	Lv	Livermorium	(293)	unknown	7	16
117	Ts	Tennessine	(294)	unknown	7	17

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118	Og	Oganesson	(294)	unknown	7	18

Notes