

The Modern Periodic Table

KEY

Symbol of element	Atomic number
Name of element	Relative atomic mass
4	Be
Beryllium	9

GROUPS	1	2
PERIOD	IA	IIA
1	1 H Hydrogen 1	
2	3 Li Lithium 7	4 Be Beryllium 9
3	11 Na Sodium 23	12 Mg Magnesium 24
4	19 K Potassium 39	20 Ca Calcium 40
5	37 Rb Rubidium 85.5	38 Sr Strontium 88
6	55 Cs Caesium 133	56 Ba Barium 137
7	87 Fr Francium (223)	88 Ra Radium (226)

TRANSITION ELEMENTS

3	4	5	6	7	8	9	10	11	12
IIIB	IVB	VB	VIB	VII B	VIII	VIII	IB	IIB	IIB
21 Sc Scandium 45	22 Ti Titanium 48	23 V Vanadium 51	24 Cr Chromium 52	25 Mn Manganese 55	26 Fe Iron 56	27 Co Cobalt 59	28 Ni Nickel 59	29 Cu Copper 63.5	30 Zn Zinc 65
39 Y Yttrium 89	40 Zr Zirconium 91	41 Nb Niobium 93	42 Mo Molybdenum 96	43 Tc Technetium 99	44 Ru Ruthenium 101	45 Rh Rhodium 103	46 Pd Palladium 106.5	47 Ag Silver 108	48 Cd Cadmium 112.5
57 * La Lanthanum 139	72 Hf Hafnium 178.5	73 Ta Tantalum 181	74 W Tungsten 184	75 Re Rhenium 186	76 Os Osmium 186	77 Ir Iridium 192	78 Pt Platinum 195	79 Au Gold 197	80 Hg Mercury 201
89 † Ac Actinium (227)	104 Rf Rutherfordium (261)	105 Db Dubnium (262)	106 Sg Seaborgium (263)	107 Bh Bohrium (262)	108 Hs Hassium (265)	109 Mt Meitnerium (267)	110 Uun Ununnilium (195)	111 Uuu Unununium (197)	112 Uub Unubium (201)

Lanthanide Series

6	58 Ce Cerium 140
7	90 Th Thorium 232

Actinide Series

6	59 Pr Praseodymium 141
7	91 Pa Protactinium 231

WEAK METALS

58	Ce Cerium 140	59	Pr Praseodymium 141	60	Nd Neodymium 144	90	Th Thorium 232	91	Pa Protactinium 231	92	U Uranium 238
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TRANSITION ELEMENTS

3 to 12 (IB to VII B & VIII) - [METALS]
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WEAK METALS

104 Rf Rutherfordium (261)	105 Db Dubnium (262)	106 Sg Seaborgium (263)	107 Bh Bohrium (262)	108 Hs Hassium (265)	109 Mt Meitnerium (267)	110 Uun Ununnilium (195)	111 Uuu Unununium (197)	112 Uub Unubium (201)	113 Uut Ununtrium (284)	114 Uuq Ununquadium (289)	115 Uup Ununpentium (288)	116 Uuh Ununhexium (292)	117 Uus Ununseptium (N/A)	118 Uuo Ununoctium (N/A)
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METALLOIDS

51 Sb Antimony 122	52 Te Tellurium 128	53 I Iodine 127	83 Bi Bismuth (208.9)	84 Po Polonium (209)	85 At Astatine (210)	86 Rn Radon (222)	113 Uut Ununtrium (284)	114 Uuq Ununquadium (289)	115 Uup Ununpentium (288)	116 Uuh Ununhexium (292)	117 Uus Ununseptium (N/A)	118 Uuo Ununoctium (N/A)
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HALOGENS

17 Cl Chlorine 35.5	35 Br Bromine 80	53 I Iodine 127	85 At Astatine (210)	117 Uus Ununseptium (N/A)
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NOBLE GASES

2 He Helium 4	10 Ne Neon 20	18 Ar Argon 40	36 Kr Krypton 84	54 Xe Xenon 131	86 Rn Radon (222)	118 Uuo Ununoctium (N/A)
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