

THE PERIODIC TABLE

hydrogen 1 H 1.0079	beryllium 4 Be 9.0122
lithium 3 Li 6.941	magnesium 12 Mg 24.305
sodium 11 Na 22.990	calcium 20 Ca 40.078
potassium 19 K 39.098	strontium 38 Sr 87.62
rubidium 37 Rb 85.468	yttrium 39 Y 88.906
caesium 55 Cs 132.91	zirconium 40 Zr 91.224
francium 87 Fr [223]	niobium 41 Nb 92.906
radium 88 Ra [226]	tantalum 42 Ta 180.95
lawrencium 103 Lr [262]	tungsten 74 W 183.84
rutherfordium 104 Rf [262]	rhenium 75 Re 186.21
dubnium 105 Db [266]	osmium 76 Os 190.23
seaborgium 106 Sg [264]	iridium 77 Ir 192.22
bohrium 107 Bh [269]	platinum 78 Pt 195.08
meitnerium 108 Mt [268]	gold 79 Au 196.97
hassium 109 Hs [271]	mercury 80 Hg 200.59
meitnerium 110 Uun [271]	thallium 81 Tl 204.38
ununnilium 111 Uuu [272]	lead 82 Pb 207.2
ununbium 112 Uub [277]	bismuth 83 Bi 208.98
	ununquadium 114 Uuq [289]

magnesium
12
Mg
24.305

name

Proton number

Chemical symbol

Relative atomic mass
(total number of
protons and neutrons)

boron 5 B 10.811	carbon 6 C 12.011	nitrogen 7 N 14.007	oxygen 8 O 15.999	fluorine 9 F 18.998	neon 10 Ne 20.180
aluminum 13 Al 26.982	silicon 14 Si 28.086	phosphorus 15 P 30.974	sulfur 16 S 32.065	chlorine 17 Cl 35.453	argon 18 Ar 39.948
gallium 31 Ga 69.723	germanium 32 Ge 72.61	arsenic 33 As 74.922	selenium 34 Se 78.96	bromine 35 Br 79.904	krypton 36 Kr 83.80
tin 50 In 114.82	indium 51 Sn 118.71	antimony 52 Sb 121.76	tellurium 53 Te 127.60	iodine 54 I 126.90	xenon 54 Xe 131.29
thallium 81 Tl 204.38	lead 82 Pb 207.2	bismuth 83 Bi 208.98	polonium 84 Po [209]	astatine 85 At [210]	radon 86 Rn [222]

* Lanthanide series

lanthanum 57 La 138.91	cerium 58 Ce 140.12	praseodymium 59 Pr 140.91	neodymium 60 Nd 144.24	promethium 61 Pm [145]	samarium 62 Sm 150.36	europerium 63 Eu 151.96	gadolinium 64 Gd 157.25	terbium 65 Tb 158.93	dysprosium 66 Dy 162.50	holmium 67 Ho 164.93	erbium 68 Er 167.26	thulium 69 Tm 168.93	ytterbium 70 Yb 173.04
actinium 89 Ac [227]	thorium 90 Th 232.04	protactinium 91 Pa 231.04	uranium 92 U 238.03	neptunium 93 Np [237]	plutonium 94 Pu [244]	americium 95 Am [243]	curium 96 Cm [247]	berkelium 97 Bk [247]	californium 98 Cf [251]	einsteinium 99 Es [252]	fermium 100 Fm [257]	mendelevium 101 Md [258]	nobelium 102 No [259]

TOP TIP: every atom has the same number of protons and electrons

TOP TIP: The number of neutrons in an atom can be calculated by subtracting the proton number from the relative atomic mass.