

# Periodic Table of the Elements

1 hydrogen 1 <b>H</b> 1.0079																	18 helium 2 <b>He</b> 4.0026	
3 lithium <b>Li</b> 6.941	2 beryllium 4 <b>Be</b> 9.0122											13 boron 5 <b>B</b> 10.811	14 carbon 6 <b>C</b> 12.011	15 nitrogen 7 <b>N</b> 14.007	16 oxygen 8 <b>O</b> 15.999	17 fluorine 9 <b>F</b> 18.998	10 neon 10 <b>Ne</b> 20.180	
11 sodium <b>Na</b> 22.990	12 magnesium <b>Mg</b> 24.305											13 aluminum <b>Al</b> 26.982	14 silicon <b>Si</b> 28.086	15 phosphorus <b>P</b> 30.974	16 sulfur <b>S</b> 32.065	17 chlorine <b>Cl</b> 35.453	18 argon <b>Ar</b> 39.948	
19 potassium <b>K</b> 39.098	20 calcium <b>Ca</b> 40.078	3 scandium <b>Sc</b> 44.956	4 titanium <b>Ti</b> 47.867	5 vanadium <b>V</b> 50.942	6 chromium <b>Cr</b> 51.996	7 manganese <b>Mn</b> 54.938	8 iron <b>Fe</b> 55.845	9 cobalt <b>Co</b> 58.933	10 nickel <b>Ni</b> 58.693	11 copper <b>Cu</b> 63.546	12 zinc <b>Zn</b> 65.39	31 gallium <b>Ga</b> 69.723	32 germanium <b>Ge</b> 72.61	33 arsenic <b>As</b> 74.922	34 selenium <b>Se</b> 78.96	35 bromine <b>Br</b> 79.904	36 krypton <b>Kr</b> 83.80	
37 rubidium <b>Rb</b> 85.468	38 strontium <b>Sr</b> 87.62	39 yttrium <b>Y</b> 88.906	40 zirconium <b>Zr</b> 91.224	41 niobium <b>Nb</b> 92.906	42 molybdenum <b>Mo</b> 95.94	43 technetium <b>Tc</b> [98]	44 ruthenium <b>Ru</b> 101.07	45 rhodium <b>Rh</b> 102.91	46 palladium <b>Pd</b> 106.42	47 silver <b>Ag</b> 107.87	48 cadmium <b>Cd</b> 112.41	49 indium <b>In</b> 114.82	50 tin <b>Sn</b> 118.71	51 antimony <b>Sb</b> 121.76	52 tellurium <b>Te</b> 127.60	53 iodine <b>I</b> 126.90	54 xenon <b>Xe</b> 131.29	
55 caesium <b>Cs</b> 132.91	56 barium <b>Ba</b> 137.33	57-70 lanthanide series	71 lutetium <b>Lu</b> 174.97	72 hafnium <b>Hf</b> 178.49	73 tantalum <b>Ta</b> 180.95	74 tungsten <b>W</b> 183.84	75 rhenium <b>Re</b> 186.21	76 osmium <b>Os</b> 190.23	77 iridium <b>Ir</b> 192.22	78 platinum <b>Pt</b> 195.08	79 gold <b>Au</b> 196.97	80 mercury <b>Hg</b> 200.59	81 thallium <b>Tl</b> 204.38	82 lead <b>Pb</b> 207.2	83 bismuth <b>Bi</b> 208.98	84 polonium <b>Po</b> [209]	85 astatine <b>At</b> [210]	86 radon <b>Rn</b> [222]
87 francium <b>Fr</b> [223]	88 radium <b>Ra</b> [226]	89-102 actinide series	103 lawrencium <b>Lr</b> [262]	104 rutherfordium <b>Rf</b> [261]	105 dubnium <b>Db</b> [262]	106 seaborgium <b>Sg</b> [266]	107 bohrium <b>Bh</b> [264]	108 hassium <b>Hs</b> [269]	109 meitnerium <b>Mt</b> [268]	110 darmstadtium <b>Ds</b> [271]	111 roentgenium <b>Rg</b> [272]	112 unbinilium <b>Uub</b> [277]	113 ununilium <b>Uut</b> [284]	114 ununquadium <b>Uuq</b> [289]	115 ununpentium <b>Uup</b> [288]	116 ununhexium <b>Uuh</b> [292]	117 ununseptium <b>Uus</b> [291]	118 ununoctium <b>Uuo</b> [294]

■ Lanthanide series

■ Actinide series

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