

Planck's constant: $h = 6.63 \times 10^{-34}$ Joule-sec

Avogadro's number: $n = 6.02 \times 10^{23}$

Speed of light: $c = 3.0 \times 10^8$ m/s

Mass of electron: 9.11×10^{-28} g = 9.11×10^{-31} kg

Mass of proton: 1.67×10^{-24} g = 1.67×10^{-27} kg

The periodic table

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1 Hydrogen 1 H 1.008	2 Helium 2 He 4.0026	3 Lithium 3 Li 6.94	4 Beryllium 4 Be 9.0122	5 Scandium 21 Sc 44.956	6 Titanium 22 Ti 47.867	7 Vanadium 23 V 50.942	8 Chromium 24 Cr 51.996	9 Manganese 25 Mn 54.938	10 Iron 26 Fe 55.845(2)	11 Cobalt 27 Co 58.933	12 Nickel 28 Ni 58.693	13 Copper 29 Cu 63.546(3)	14 Zinc 30 Zn 65.38(2)	15 Gallium 31 Ga 69.723	16 Germanium 32 Ge 72.63	17 Arsenic 33 As 74.922	18 Selenium 34 Se 78.96(3)	19 Potassium 19 K 39.098	20 Calcium 20 Ca 40.078(4)	21 Scandium 21 Sc 44.956	22 Titanium 22 Ti 47.867	23 Vanadium 23 V 50.942	24 Chromium 24 Cr 51.996	25 Manganese 25 Mn 54.938	26 Iron 26 Fe 55.845(2)	27 Cobalt 27 Co 58.933	28 Nickel 28 Ni 58.693	29 Copper 29 Cu 63.546(3)	30 Zinc 30 Zn 65.38(2)	31 Gallium 31 Ga 69.723	32 Germanium 32 Ge 72.63	33 Arsenic 33 As 74.922	34 Selenium 34 Se 78.96(3)	35 Bromine 35 Br 79.904	36 Krypton 36 Kr 83.798(2)	37 Rubidium 37 Rb 85.468	38 Strontium 38 Sr 87.62	39 Yttrium 39 Y 88.906	40 Zirconium 40 Zr 91.224(2)	41 Niobium 41 Nb 92.906(2)	42 Molybdenum 42 Mo 95.96(2)	43 Technetium 43 Tc [97.91]	44 Ruthenium 44 Ru 101.07(2)	45 Rhodium 45 Rh 102.91	46 Palladium 46 Pd 106.42	47 Silver 47 Ag 107.87	48 Cadmium 48 Cd 112.41	49 Indium 49 In 114.82	50 Tin 50 Sn 118.71	51 Antimony 51 Sb 121.76	52 Tellurium 52 Te 127.60(3)	53 Iodine 53 I 126.90	54 Xenon 54 Xe 131.29	55 Caesium 55 Cs 132.91	56 Barium 56 Ba 137.33	57-70 * Lanthanoids	71 Lutetium 71 Lu 174.97	72 Hafnium 72 Hf 178.49(2)	73 Tantalum 73 Ta 180.95	74 Tungsten 74 W 183.84	75 Rhenium 75 Re 186.21	76 Osmium 76 Os 190.23(2)	77 Iridium 77 Ir 192.22	78 Platinum 78 Pt 195.08	79 Gold 79 Au 196.97	80 Mercury 80 Hg 200.59	81 Thallium 81 Tl 204.38	82 Lead 82 Pb 207.2	83 Bismuth 83 Bi 208.98	84 Polonium 84 Po [208.98]	85 Astatine 85 At [209.99]	86 Radon 86 Rn [222.02]	87 Francium 87 Fr [223.02]	88 Radium 88 Ra [226.03]	89-102 ** Actinoids	103 Lawrencium 103 Lr [262.11]	104 Rutherfordium 104 Rf [265.12]	105 Dubnium 105 Db [268.13]	106 Seaborgium 106 Sg [271.13]	107 Bohrium 107 Bh [270]	108 Hassium 108 Hs [277.15]	109 Meitnerium 109 Mt [276.15]	110 Darmstadtium 110 Ds [281.16]	111 Roentgenium 111 Rg [280.16]	112 Copernicium 112 Cn [285.17]	113 Ununtrium 113 Uut [284.18]	114 Flerovium 114 Fl [289.19]	115 Ununpentium 115 Uup [288.19]	116 Livermorium 116 Lv [293]	117 Ununseptium 117 Uus [294]	118 Ununoctium 118 Uuo [294]
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Key:

Element Name
Atomic number
Symbol
Atomic weight (mean relative mass)

Lanthanum 57 La 138.91	Cerium 58 Ce 140.12	Praseodymium 59 Pr 140.91	Neodymium 60 Nd 144.24	Promethium 61 Pm [144.91]	Samarium 62 Sm 150.36(2)	Europium 63 Eu 151.96	Gadolinium 64 Gd 157.25(3)	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 173.05
Actinium 89 Ac [227.03]	Thorium 90 Th 232.04	Protactinium 91 Pa 231.04	Uranium 92 U 238.03	Neptunium 93 Np [237.05]	Plutonium 94 Pu [244.06]	Americium 95 Am [243.06]	Curium 96 Cm [247.07]	Berkelium 97 Bk [247.07]	Californium 98 Cf [251.08]	Einsteinium 99 Es [252.08]	Fermium 100 Fm [257.10]	Mendelevium 101 Md [258.10]	Nobelium 102 No [259.10]

Symbols and names: the symbols and names of the elements, and their spellings are those recommended by the International Union of Pure and Applied Chemistry (IUPAC - <http://www.iupac.org/>). Names have yet to be proposed for elements 113, 115, 117, and 118 and so those used here are IUPAC's temporary systematic names. In some countries, the spellings aluminium, cesium, and sulphur are usual.

Group labels: the numeric system (1-18) used here is the current IUPAC convention.

Atomic weights (mean relative masses): these are the IUPAC 2009 values and given to 5 significant figures. The last significant figure of each value is considered reliable to ± 1 except where a larger uncertainty is given in parentheses. Representative values for those elements having an atomic weight interval are given (H, Li, B, C, N, O, Si, S, Cl, Ti). Elements for which the atomic weight is given within [brackets] have no stable nuclides and are represented by the element's longest lived isotope reported in the IUPAC 2009 values.

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