



The periodic table

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1 Hydrogen H 1.008	2 Helium He 4.0026	3 Lithium Li 6.94	4 Beryllium Be 9.0122	5 Sodium Na 22.990	6 Magnesium Mg 24.305	7 Potassium K 39.098	8 Calcium Ca 40.078(4)	9 Rubidium Rb 85.468	10 Strontium Sr 87.62	11 Caesium Cs 132.91	12 Barium Ba 137.33	13 Francium Fr [223.02]	14 Radium Ra [226.03]	15 Scandium Sc 44.956	16 Titanium Ti 47.867	17 Vanadium V 50.942	18 Chromium Cr 51.996	19 Manganese Mn 54.938	20 Iron Fe 55.845(2)	21 Cobalt Co 58.933	22 Nickel Ni 58.693	23 Copper Cu 63.546(3)	24 Zinc Zn 65.38(2)	25 Gallium Ga 69.723	26 Germanium Ge 72.63	27 Arsenic As 74.922	28 Selenium Se 78.96(3)	29 Bromine Br 79.904	30 Krypton Kr 83.798(2)	31 Yttrium Y 88.906	32 Zirconium Zr 91.224(2)	33 Niobium Nb 92.906(2)	34 Molybdenum Mo 95.96(2)	35 Technetium Tc [97.91]	36 Ruthenium Ru 101.07(2)	37 Rhodium Rh 102.91	38 Palladium Pd 106.42	39 Silver Ag 107.87	40 Cadmium Cd 112.41	41 Indium In 114.82	42 Tin Sn 118.71	43 Antimony Sb 121.76	44 Tellurium Te 127.60(3)	45 Iodine I 126.90	46 Xenon Xe 131.29	47 Lutetium Lu 174.97	48 Hafnium Hf 178.49(2)	49 Tantalum Ta 180.95	50 Tungsten W 183.84	51 Rhenium Re 186.21	52 Osmium Os 190.23(2)	53 Iridium Ir 192.22	54 Platinum Pt 195.08	55 Gold Au 196.97	56 Mercury Hg 200.59	57 Thallium Tl 204.38	58 Lead Pb 207.2	59 Bismuth Bi 208.98	60 Polonium Po [208.98]	61 Astatine At [209.99]	62 Radon Rn [222.02]	63 Lawrencium Lr [262.11]	64 Rutherfordium Rf [265.12]	65 Dubnium Db [268.13]	66 Seaborgium Sg [271.13]	67 Bohrium Bh [270]	68 Hassium Hs [277.15]	69 Meitnerium Mt [276.15]	70 Darmstadtium Ds [281.16]	71 Roentgenium Rg [280.16]	72 Copernicium Cn [285.17]	73 Ununtrium Uut [284.18]	74 Flerovium Fl [289.19]	75 Ununpentium Uup [288.19]	76 Livermorium Lv [293]	77 Ununseptium Uus [294]	78 Ununoctium Uuo [294]
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Key:

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

*lanthanoids

**actinoids

Lanthanum La 138.91	Cerium Ce 140.12	Praseodymium Pr 140.91	Neodymium Nd 144.24	Promethium Pm [144.91]	Samarium Sm 150.36(2)	Europium Eu 151.96	Gadolinium Gd 157.25(3)	Terbium Tb 158.93	Dysprosium Dy 162.50	Holmium Ho 164.93	Erbium Er 167.26	Thulium Tm 168.93	Ytterbium Yb 173.05
Actinium Ac [227.03]	Thorium Th 232.04	Protactinium Pa 231.04	Uranium U 238.03	Neptunium Np [237.05]	Plutonium Pu [244.06]	Americium Am [243.06]	Curium Cm [247.07]	Berkelium Bk [247.07]	Californium Cf [251.08]	Einsteinium Es [252.08]	Fermium Fm [257.10]	Mendelevium Md [258.10]	Nobelium 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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