Periodic Table of the Elements

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Alkali metals	Alkaline earth											Boron group	Carbon group	Pnictogens	Chalcogens	Halogens	Noble gases

1	1 N 1 **H** Hydrogen 1.008																2 G 2 **He** Helium 4.0026
2	3 A 2 1 **Li** Lithium 7	4 E 2 2 **Be** Beryllium 9.0122											5 M 2 3 **B** Boron 10.81	6 N 2 4 **C** Carbon 12.011	7 N 2 5 **N** Nitrogen 14.007	8 N 2 6 **O** Oxygen 15.999	9 H 2 7 **F** Fluorine 18.9984	10 G 2 8 **Ne** Neon 20.18
3	11 A 2 8 1 **Na** Sodium 22.9898	12 E 2 8 2 **Mg** Magnesium 24.305											13 P 2 8 3 **Al** Aluminium 26.9815	14 M 2 8 4 **Si** Silicon 28.085	15 N 2 8 5 **P** Phosphorus 30.9738	16 N 2 8 6 **S** Sulfur 32.07	17 H 2 8 7 **Cl** Chlorine 35.45	18 G 2 8 8 **Ar** Argon 39.9
4	19 A 2 8 8 1 **K** Potassium 39.0983	20 E 2 8 8 2 **Ca** Calcium 40.08	21 T 2 8 9 2 **Sc** Scandium 44.9559	22 T 2 8 10 2 **Ti** Titanium 47.867	23 T 2 8 11 2 **V** Vanadium 50.9415	24 T 2 8 13 1 **Cr** Chromium 51.996	25 T 2 8 13 2 **Mn** Manganese 54.938	26 T 2 8 14 2 **Fe** Iron 55.84	27 T 2 8 15 2 **Co** Cobalt 58.9332	28 T 2 8 16 2 **Ni** Nickel 58.693	29 T 2 8 18 1 **Cu** Copper 63.55	30 T 2 8 18 2 **Zn** Zinc 65.4	31 P 2 8 18 3 **Ga** Gallium 69.723	32 M 2 8 18 4 **Ge** Germanium 72.63	33 M 2 8 18 5 **As** Arsenic 74.9216	34 N 2 8 18 6 **Se** Selenium 78.97	35 H 2 8 18 7 **Br** Bromine 79.9	36 G 2 8 18 8 **Kr** Krypton 83.8
5	37 A 2 8 18 8 1 **Rb** Rubidium 85.468	38 E 2 8 18 8 2 **Sr** Strontium 87.62	39 T 2 8 18 9 2 **Y** Yttrium 88.9058	40 T 2 8 18 10 2 **Zr** Zirconium 91.22	41 T 2 8 18 12 1 **Nb** Niobium 92.9064	42 T 2 8 18 13 1 **Mo** Molybdenum 95.95	43 T 2 8 18 13 2 **Tc** Technetium [97]	44 T 2 8 18 15 1 **Ru** Ruthenium 101.1	45 T 2 8 18 16 1 **Rh** Rhodium 102.9055	46 T 2 8 18 18 **Pd** Palladium 106.42	47 T 2 8 18 18 1 **Ag** Silver 107.868	48 T 2 8 18 18 2 **Cd** Cadmium 112.41	49 P 2 8 18 18 3 **In** Indium 114.818	50 P 2 8 18 18 4 **Sn** Tin 118.71	51 M 2 8 18 18 5 **Sb** Antimony 121.76	52 M 2 8 18 18 6 **Te** Tellurium 127.6	53 H 2 8 18 18 7 **I** Iodine 126.9045	54 G 2 8 18 18 8 **Xe** Xenon 131.29
6	55 A 2 8 18 18 8 1 **Cs** Caesium 132.9055	56 E 2 8 18 18 8 2 **Ba** Barium 137.33	57-71 L **La-Lu**	72 T 2 8 18 32 10 2 **Hf** Hafnium 178.49	73 T 2 8 18 32 11 2 **Ta** Tantalum 180.9479	74 T 2 8 18 32 12 2 **W** Tungsten 183.84	75 T 2 8 18 32 13 2 **Re** Rhenium 186.207	76 T 2 8 18 32 14 2 **Os** Osmium 190.2	77 T 2 8 18 32 15 2 **Ir** Iridium 192.22	78 T 2 8 18 32 17 1 **Pt** Platinum 195.08	79 T 2 8 18 32 18 1 **Au** Gold 196.9666	80 T 2 8 18 32 18 2 **Hg** Mercury 200.59	81 P 2 8 18 32 18 3 **Tl** Thallium 204.383	82 P 2 8 18 32 18 4 **Pb** Lead 207	83 P 2 8 18 32 18 5 **Bi** Bismuth 208.9804	84 M 2 8 18 32 18 6 **Po** Polonium [209]	85 H 2 8 18 32 18 7 **At** Astatine [210]	86 G 2 8 18 32 18 8 **Rn** Radon [222]
7	87 A 2 8 18 32 18 8 1 **Fr** Francium [223]	88 E 2 8 18 32 18 8 2 **Ra** Radium [226]	89-103 C **Ac-Lr**	104 T 2 8 18 32 32 10 2 **Rf** Rutherfordium [267]	105 T 2 8 18 32 32 11 2 **Db** Dubnium [268]	106 T 2 8 18 32 32 12 2 **Sg** Seaborgium [269]	107 T 2 8 18 32 32 13 2 **Bh** Bohrium [270]	108 T 2 8 18 32 32 14 2 **Hs** Hassium [269]	109 T 2 8 18 32 32 15 2 **Mt** Meitnerium [277]	110 T 2 8 18 32 32 16 2 **Ds** Darmstadtium [282]	111 T 2 8 18 32 32 17 2 **Rg** Roentgenium [282]	112 T 2 8 18 32 32 18 2 **Cn** Copernicium [286]	113 P 2 8 18 32 32 18 3 **Nh** Nihonium [286]	114 P 2 8 18 32 32 18 4 **Fl** Flerovium [290]	115 P 2 8 18 32 32 18 5 **Mc** Moscovium [290]	116 P 2 8 18 32 32 18 6 **Lv** Livermorium [293]	117 H 2 8 18 32 32 18 7 **Ts** Tennessine [294]	118 G 2 8 18 32 32 18 8 **Og** Oganesson [295]

C	Solid 90
Hg	Liquid 2
H	Gas 11
Rf	Unknown 15

Metals

A	E	Lanthanides L	T	P	M	N	H	G
Alkali metals 6	Alkaline earth metals 6	15	Transition metals 38	Post-transition metals 11	Metalloids 7	Reactive nonmetals 7	Halogens 6	Noble gases 7
		Actinides C 15						

Nonmetals

A mass in [brackets], such as [209], is a mass number: that element has no stable isotope, so its longest-lived one is shown.

57 L 2 8 18 18 9 2 **La** Lanthanum 138.9055	58 L 2 8 18 19 9 2 **Ce** Cerium 140.116	59 L 2 8 18 21 8 2 **Pr** Praseodymium 140.9077	60 L 2 8 18 22 8 2 **Nd** Neodymium 144.24	61 L 2 8 18 23 8 2 **Pm** Promethium [145]	62 L 2 8 18 24 8 2 **Sm** Samarium 150.4	63 L 2 8 18 25 8 2 **Eu** Europium 151.964	64 L 2 8 18 25 9 2 **Gd** Gadolinium 157.25	65 L 2 8 18 27 8 2 **Tb** Terbium 158.9254	66 L 2 8 18 28 8 2 **Dy** Dysprosium 162.5	67 L 2 8 18 29 8 2 **Ho** Holmium 164.9303	68 L 2 8 18 30 8 2 **Er** Erbium 167.26	69 L 2 8 18 31 8 2 **Tm** Thulium 168.9342	70 L 2 8 18 32 8 2 **Yb** Ytterbium 173.05	71 L 2 8 18 32 9 2 **Lu** Lutetium 174.9667
89 C 2 8 18 32 18 9 2 **Ac** Actinium [227]	90 C 2 8 18 32 18 10 2 **Th** Thorium 232.038	91 C 2 8 18 32 20 9 2 **Pa** Protactinium 231.0359	92 C 2 8 18 32 21 9 2 **U** Uranium 238.0289	93 C 2 8 18 32 22 9 2 **Np** Neptunium [237]	94 C 2 8 18 32 24 8 2 **Pu** Plutonium [244]	95 C 2 8 18 32 25 8 2 **Am** Americium [243]	96 C 2 8 18 32 25 9 2 **Cm** Curium [247]	97 C 2 8 18 32 27 8 2 **Bk** Berkelium [247]	98 C 2 8 18 32 28 8 2 **Cf** Californium [251]	99 C 2 8 18 32 29 8 2 **Es** Einsteinium [252]	100 C 2 8 18 32 30 8 2 **Fm** Fermium [257]	101 C 2 8 18 32 31 8 2 **Md** Mendelevium [258]	102 C 2 8 18 32 32 8 2 **No** Nobelium [259]	103 C 2 8 18 32 32 8 3 **Lr** Lawrencium [266]

Scan for the interactive table

26 T 2 8 14 2 **Fe** Iron 55.84

- Category letter
- Atomic number (protons)
- Electrons per shell
- Symbol
- Name
- Atomic mass, g/mol

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