

Periodic Table of the Elements

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Atomic NumberValence Symbol NameAtomic Mass																		13 IIIA 3A	14 IVA 4A	15 VA 5A	16 VIA 6A	17 VIIA 7A	18 VIIIA 8A
1 -1, +1 H Hydrogen 1.008	2 IIA 2A He Helium 4.003	3 +1 Li Lithium 6.941	4 +2 Be Beryllium 9.012	5 B Boron 10.811	6 +4,+3,+2,+1 -4,-3 -2,-1 C Carbon 12.011	7 +5,+3,-3 N Nitrogen 14.007	8 -2 O Oxygen 15.999	9 -1 F Fluorine 18.998	10 0 Ne Neon 20.180	11 IB 1B Na Sodium 22.990	12 IIB 2B Mg Magnesium 24.305	13 +3 Al Aluminum 26.982	14 +4,-4 Si Silicon 28.086	15 +5,+3,-3 P Phosphorus 30.974	16 +6,+4,+2,-2 S Sulfur 32.066	17 +7,+5,+3,+1 -1 Cl Chlorine 35.453	18 0 Ar Argon 39.948						
19 +1 K Potassium 39.098	20 +2 Ca Calcium 40.078	21 +3 Sc Scandium 44.956	22 +4 Ti Titanium 47.88	23 +5 V Vanadium 50.942	24 +6,+3 Cr Chromium 51.996	25 +7,+4,+2 Mn Manganese 54.938	26 +6,+3,+2 Fe Iron 55.845	27 +3,+2 Co Cobalt 58.933	28 +2 Ni Nickel 58.693	29 +2 Cu Copper 63.546	30 +2 Zn Zinc 65.38	31 +3 Ga Gallium 69.723	32 +4,+2,-4 Ge Germanium 72.631	33 +5,+3,-3 As Arsenic 74.922	34 +6,+4,+2,-2 Se Selenium 78.971	35 +5,+3,+1,-1 Br Bromine 79.904	36 +2,0 Kr Krypton 84.798						
37 +1 Rb Rubidium 85.468	38 +2 Sr Strontium 87.62	39 +3 Y Yttrium 88.906	40 +4 Zr Zirconium 91.224	41 +5 Nb Niobium 92.906	42 +6,+4 Mo Molybdenum 95.95	43 +7,+4 Tc Technetium 98.907	44 +4,+3 Ru Ruthenium 101.07	45 +3 Rh Rhodium 102.906	46 +4,+2 Pd Palladium 106.42	47 +1 Ag Silver 107.868	48 +2 Cd Cadmium 112.414	49 +3 In Indium 114.818	50 +4,+2,-4 Sn Tin 118.711	51 +5,+3,-3 Sb Antimony 121.760	52 +6,+4,+2,-2 Te Tellurium 127.6	53 +7,+5,+3,+1 -1 I Iodine 126.904	54 +6,+4,+2,0 Xe Xenon 131.294						
55 +1 Cs Cesium 132.905	56 +2 Ba Barium 137.328	57-71	72 +4 Hf Hafnium 178.49	73 +5 Ta Tantalum 180.948	74 +6,+4 W Tungsten 183.85	75 +4 Re Rhenium 186.207	76 +4 Os Osmium 190.23	77 +4,+3 Ir Iridium 192.22	78 +4,+2 Pt Platinum 195.08	79 +3 Au Gold 196.967	80 +2,+1 Hg Mercury 200.59	81 +3,+1 Tl Thallium 204.383	82 +4,+2 Pb Lead 207.2	83 +3 Bi Bismuth 208.980	84 +4,+2,-2 Po Polonium [208.982]	85 +1,-1 At Astatine 209.987	86 +2,0 Rn Radon 222.018						
87 +1 Fr Francium 223.020	88 +2 Ra Radium 226.025	89-103	104 +4 Rf Rutherfordium [261]	105 +5 Db Dubnium [262]	106 +6 Sg Seaborgium [266]	107 +7 Bh Bohrium [264]	108 +8 Hs Hassium [269]	109 unknown Mt Meitnerium [278]	110 unknown Ds Darmstadtium [281]	111 unknown Rg Roentgenium [280]	112 +2 Cn Copernicium [285]	113 unknown Nh Nihonium [286]	114 unknown Fl Flerovium [289]	115 unknown Mc Moscovium [289]	116 unknown Lv Livermorium [293]	117 unknown Ts Tennessine [294]	118 unknown Og Oganesson [294]						

Lanthanide Series	57 La Lanthanum 138.905	58 Ce Cerium 140.116	59 Pr Praseodymium 140.908	60 Nd Neodymium 144.243	61 Pm Promethium 144.913	62 Sm Samarium 150.36	63 Eu Europium 151.964	64 Gd Gadolinium 157.25	65 Tb Terbium 158.925	66 Dy Dysprosium 162.500	67 Ho Holmium 164.930	68 Er Erbium 167.259	69 Tm Thulium 168.934	70 Yb Ytterbium 173.055	71 Lu Lutetium 174.967
Actinide Series	89 Ac Actinium 227.028	90 Th Thorium 232.038	91 Pa Protactinium 231.036	92 U Uranium 238.029	93 Np Neptunium 237.048	94 Pu Plutonium 244.064	95 Am Americium 243.061	96 Cm Curium 247.070	97 Bk Berkelium 247.070	98 Cf Californium 251.080	99 Es Einsteinium [254]	100 Fm Fermium 257.095	101 Md Mendelevium 258.1	102 No Nobelium 259.101	103 Lr Lawrencium [262]

- Alkali Metal
- Alkaline Earth
- Transition Metal
- Basic Metal
- Metalloid
- Nonmetal
- Halogen
- Noble Gas
- Lanthanide
- Actinide