

# Periodic Table of the Elements

1 IA <b>H</b> Hydrogen 1.008 1																	18 VIIIA <b>He</b> Helium 4.0026 2																
3 <b>Li</b> Lithium 6.94 2-1	4 IIA <b>Be</b> Beryllium 9.0122 2-2																	10 <b>Ne</b> Neon 20.180 2-8															
11 <b>Na</b> Sodium 22.98976928 2-8-1	12 IIA <b>Mg</b> Magnesium 24.305 2-8-2	13 IIIA <b>Al</b> Aluminium 26.982 2-8-3	14 IVA <b>Si</b> Silicon 28.085 2-8-4	15 VA <b>P</b> Phosphorus 30.974 2-8-5	16 VIA <b>S</b> Sulfur 32.06 2-8-6	17 VIIA <b>Cl</b> Chlorine 35.45 2-8-7	18 VIIIA <b>Ar</b> Argon 39.948 2-8-8																										
19 <b>K</b> Potassium 39.0983 2-8-8-1	20 IIA <b>Ca</b> Calcium 40.078 2-8-8-2	21 IIIB <b>Sc</b> Scandium 44.955908 2-8-9-2	22 IVB <b>Ti</b> Titanium 47.867 2-8-10-2	23 VB <b>V</b> Vanadium 50.9415 2-8-10-2	24 VIB <b>Cr</b> Chromium 51.9961 2-8-10-2	25 VIIB <b>Mn</b> Manganese 54.938044 2-8-10-2	26 VIIIB <b>Fe</b> Iron 55.845 2-8-10-2	27 VIIIB <b>Co</b> Cobalt 58.933 2-8-15-2	28 VIIIB <b>Ni</b> Nickel 58.693 2-8-16-2	29 IB <b>Cu</b> Copper 63.546 2-8-18-1	30 IIB <b>Zn</b> Zinc 65.38 2-8-18-2	31 IIIB <b>Ga</b> Gallium 69.723 2-8-18-3	32 IIIB <b>Ge</b> Germanium 72.630 2-8-18-4	33 IIIB <b>As</b> Arsenic 74.922 2-8-18-5	34 IIIB <b>Se</b> Selenium 78.971 2-8-18-6	35 IIIB <b>Br</b> Bromine 79.904 2-8-18-7	36 IIIB <b>Kr</b> Krypton 83.798 2-8-18-8																
37 <b>Rb</b> Rubidium 85.4678 2-8-18-8-1	38 IIA <b>Sr</b> Strontium 87.62 2-8-18-8-2	39 IIIB <b>Y</b> Yttrium 88.90584 2-8-18-9-2	40 IVB <b>Zr</b> Zirconium 91.224 2-8-18-10-2	41 VB <b>Nb</b> Niobium 92.90637 2-8-18-10-2	42 VIB <b>Mo</b> Molybdenum 95.95 2-8-18-10-2	43 VIIB <b>Tc</b> Technetium (98) 2-8-18-10-2	44 VIIIB <b>Ru</b> Ruthenium 101.07 2-8-18-15-1	45 VIIIB <b>Rh</b> Rhodium 102.91 2-8-18-16-1	46 VIIIB <b>Pd</b> Palladium 106.42 2-8-18-18	47 IB <b>Ag</b> Silver 107.87 2-8-18-18-1	48 IIB <b>Cd</b> Cadmium 112.41 2-8-18-18-2	49 IIIB <b>In</b> Indium 114.82 2-8-18-18-3	50 IIIB <b>Sn</b> Tin 118.71 2-8-18-18-4	51 IIIB <b>Sb</b> Antimony 121.76 2-8-18-18-5	52 IIIB <b>Te</b> Tellurium 127.60 2-8-18-18-6	53 IIIB <b>I</b> Iodine 126.90 2-8-18-18-7	54 IIIB <b>Xe</b> Xenon 131.29 2-8-18-18-8																
55 <b>Cs</b> Caesium 132.90545196 2-8-18-18-8-1	56 IIA <b>Ba</b> Barium 137.327 2-8-18-18-8-2	57-71 IIIB Lanthanides	72 IVB <b>Hf</b> Hafnium 178.49 2-8-18-32-10-2	73 VB <b>Ta</b> Tantalum 180.94788 2-8-18-32-11-2	74 VIB <b>W</b> Tungsten 183.84 2-8-18-32-12-2	75 VIIB <b>Re</b> Rhenium 186.21 2-8-18-32-13-2	76 VIIIB <b>Os</b> Osmium 190.23 2-8-18-32-14-2	77 VIIIB <b>Ir</b> Iridium 192.22 2-8-18-32-15-2	78 VIIIB <b>Pt</b> Platinum 195.08 2-8-18-32-17-1	79 IB <b>Au</b> Gold 196.97 2-8-18-32-18-1	80 IIB <b>Hg</b> Mercury 200.59 2-8-18-32-18-2	81 IIIB <b>Tl</b> Thallium 204.38 2-8-18-32-18-3	82 IIIB <b>Pb</b> Lead 207.2 2-8-18-32-18-4	83 IIIB <b>Bi</b> Bismuth 208.98 2-8-18-32-18-5	84 IIIB <b>Po</b> Polonium (209) 2-8-18-32-18-6	85 IIIB <b>At</b> Astatine (210) 2-8-18-32-18-7	86 IIIB <b>Rn</b> Radon (222) 2-8-18-32-18-8																
87 <b>Fr</b> Francium (223) 2-8-18-32-18-8-1	88 IIA <b>Ra</b> Radium (226) 2-8-18-32-18-8-2	89-103 IIIB Actinides	104 IVB <b>Rf</b> Rutherfordium (261) 2-8-18-32-10-2	105 VB <b>Db</b> Dubnium (268) 2-8-18-32-11-2	106 VIB <b>Sg</b> Seaborgium (269) 2-8-18-32-12-2	107 VIIB <b>Bh</b> Bohrium (270) 2-8-18-32-13-2	108 VIIIB <b>Hs</b> Hassium (277) 2-8-18-32-14-2	109 VIIIB <b>Mt</b> Meitnerium (278) 2-8-18-32-15-2	110 VIIIB <b>Ds</b> Darmstadtium (281) 2-8-18-32-17-1	111 IB <b>Rg</b> Roentgenium (282) 2-8-18-32-17-2	112 IIB <b>Cn</b> Copernicium (285) 2-8-18-32-18-2	113 IIIB <b>Nh</b> Nihonium (286) 2-8-18-32-18-3	114 IIIB <b>Fl</b> Flerovium (289) 2-8-18-32-18-4	115 IIIB <b>Mc</b> Moscovium (290) 2-8-18-32-18-5	116 IIIB <b>Lv</b> Livermorium (293) 2-8-18-32-18-6	117 IIIB <b>Ts</b> Tennessine (294) 2-8-18-32-18-7	118 IIIB <b>Og</b> Oganesson (294) 2-8-18-32-18-8																
			57 <b>La</b> Lanthanum 138.91 2-8-18-19-2	58 <b>Ce</b> Cerium 140.12 2-8-18-19-2	59 <b>Pr</b> Praseodymium 140.91 2-8-18-21-9-2	60 <b>Nd</b> Neodymium 144.24 2-8-18-21-9-2	61 <b>Pm</b> Promethium (145) 2-8-18-23-8-2	62 <b>Sm</b> Samarium 150.36 2-8-18-24-8-2	63 <b>Eu</b> Europium 151.96 2-8-18-25-8-2	64 <b>Gd</b> Gadolinium 157.25 2-8-18-25-9-2	65 <b>Tb</b> Terbium 158.93 2-8-18-27-8-2	66 <b>Dy</b> Dysprosium 162.50 2-8-18-29-8-2	67 <b>Ho</b> Holmium 164.93 2-8-18-29-9-2	68 <b>Er</b> Erbium 167.26 2-8-18-31-8-2	69 <b>Tm</b> Thulium 168.93 2-8-18-31-8-2	70 <b>Yb</b> Ytterbium 173.05 2-8-18-32-8-2	71 <b>Lu</b> Lutetium 174.97 2-8-18-32-9-2																
			89 <b>Ac</b> Actinium (227) 2-8-18-32-18-9-2	90 <b>Th</b> Thorium 232.04 2-8-18-32-18-10-2	91 <b>Pa</b> Protactinium 231.04 2-8-18-32-70-9-2	92 <b>U</b> Uranium 238.03 2-8-18-32-71-9-2	93 <b>Np</b> Neptunium (237) 2-8-18-32-72-9-2	94 <b>Pu</b> Plutonium (244) 2-8-18-32-74-8-2	95 <b>Am</b> Americium (243) 2-8-18-32-75-8-2	96 <b>Cm</b> Curium (247) 2-8-18-32-75-9-2	97 <b>Bk</b> Berkelium (247) 2-8-18-32-77-8-2	98 <b>Cf</b> Californium (251) 2-8-18-32-78-8-2	99 <b>Es</b> Einsteinium (252) 2-8-18-32-79-8-2	100 <b>Fm</b> Fermium (257) 2-8-18-32-80-8-2	101 <b>Md</b> Mendelevium (258) 2-8-18-32-81-8-2	102 <b>No</b> Nobelium (259) 2-8-18-32-82-8-2	103 <b>Lr</b> Lawrencium (266) 2-8-18-32-83-8-3																

Atomic Number → 1  
 ← Symbol H  
 Name → Hydrogen  
 ← Atomic Weight 1.008  
 Electrons per shell → 1

- State of matter (color of name)  
 GAS LIQUID SOLID UNKNOWN
- Subcategory in the metal-metalloid-nonmetal trend (color of background)
- Alkali metals
  - Alkaline earth metals
  - Transition metals
  - Lanthanides
  - Actinides
  - Post-transition metals
  - Metalloids
  - Reactive nonmetals
  - Noble gases
  - Unknown chemical properties

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