

Periodic Table

Groups	s-block										p-block							
Periods	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1 H 1s ¹ 1.0079 Hydrogen	Alkali Metals		Metalloids			Other Non-metals			Halogens		Lanthanoids			2 He 1s ² 4.00 Helium			
2	3 Li 2s ¹ 6.94 Lithium	4 Be 2s ² 9.01 Beryllium	Alkaline Metals		Noble Gases			Post Transition Metals			Transition Metals		Actinoids					
3	11 Na 3s ¹ 22.99 Sodium	12 Mg 3s ² 24.3 Magnesium	d-block										5 B 2s ² 2p ¹ 10.81 Boron	6 C 2s ² 2p ² 12.01 Carbon	7 N 2s ² 2p ³ 14.0067 Nitrogen	8 O 2s ² 2p ⁴ 16.00 Oxygen	9 F 2s ² 2p ⁵ 19.00 Fluorine	10 Ne 2s ² 2p ⁶ 20.18 Neon
4	19 K 4s ¹ 39.10 Potassium	20 Ca 4s ² 40.08 Calcium	21 Sc 4s ² 3d ¹ 44.96 Scandium	22 Ti 4s ² 3d ² 47.88 Titanium	23 V 4s ² 3d ³ 50.94 Vanadium	24 Cr 4s ¹ 3d ⁵ 52.00 Chromium	25 Mn 4s ² 3d ⁵ 54.94 Manganese	26 Fe 4s ² 3d ⁶ 55.85 Iron	27 Co 4s ² 3d ⁷ 58.93 Cobalt	28 Ni 4s ² 3d ⁸ 58.01 Nickel	29 Cu 4s ¹ 3d ¹⁰ 63.54 Copper	30 Zn 4s ² 3d ¹⁰ 65.37 Zinc	31 Ga 4s ² 3d ¹⁰ 4p ¹ 69.72 Gallium	32 Ge 4s ² 3d ¹⁰ 4p ² 72.61 Germanium	33 As 4s ² 3d ¹⁰ 4p ³ 74.92 Arsenic	34 Se 4s ² 3d ¹⁰ 4p ⁴ 78.96 Selenium	35 Br 4s ² 3d ¹⁰ 4p ⁵ 79.91 Bromine	36 Kr 4s ² 3d ¹⁰ 4p ⁶ 83.80 Krypton
5	37 Rb 5s ¹ 85.47 Rubidium	38 Sr 5s ² 87.62 Strontium	39 Y 5s ² 4d ¹ 88.91 Yttrium	40 Zr 5s ² 4d ² 91.22 Zirconium	41 Nb 5s ¹ 4d ⁴ 92.91 Niobium	42 Mo 5s ¹ 4d ⁵ 95.94 Molybdenum	43 Tc 5s ² 4d ⁵ 98.91 Technetium	44 Ru 5s ¹ 4d ⁷ 101.07 Ruthenium	45 Rh 5s ¹ 4d ⁸ 102.91 Rhodium	46 Pd 5s ⁰ 4d ¹⁰ 106.4 Palladium	47 Ag 5s ¹ 4d ¹⁰ 107.07 Silver	48 Cd 5s ² 4d ¹⁰ 112.40 Cadmium	49 In 5s ² 4d ¹⁰ 5p ¹ 114.82 Indium	50 Sn 5s ² 4d ¹⁰ 5p ² 118.69 Tin	51 Sb 5s ² 4d ¹⁰ 5p ³ 121.75 Antimony	52 Te 5s ² 4d ¹⁰ 5p ⁴ 127.60 Tellurium	53 I 5s ² 4d ¹⁰ 5p ⁵ 126.90 Iodine	54 Xe 5s ² 4d ¹⁰ 5p ⁶ 131.58 Xenon
6	55 Cs 6s ¹ 132.91 Caesium	56 Ba 6s ² 137.34 Barium	57 La* 6s ¹ 4f ¹⁴ 5d ¹ 138.91 Lanthanum	72 Hf 6s ¹ 4f ¹⁴ 5d ² 178.49 Hafnium	73 Ta 6s ¹ 4f ¹⁴ 5d ³ 180.95 Tantalum	74 W 6s ¹ 4f ¹⁴ 5d ⁴ 183.85 Tungsten	75 Re 6s ¹ 4f ¹⁴ 5d ⁵ 186.2 Rhenium	76 Os 6s ¹ 4f ¹⁴ 5d ⁶ 190.02 Osmium	77 Ir 6s ¹ 4f ¹⁴ 5d ⁷ 192.2 Iridium	78 Pt 6s ¹ 4f ¹⁴ 5d ⁹ 195.09 Platinum	79 Au 6s ¹ 4f ¹⁴ 5d ¹⁰ 196.97 Gold	80 Hg 6s ² 4f ¹⁴ 5d ¹⁰ 200.59 Mercury	81 Tl 6s ² 4f ¹⁴ 5d ¹⁰ 6p ¹ 204.37 Thallium	82 Pb 6s ² 4f ¹⁴ 5d ¹⁰ 6p ² 207.19 Lead	83 Bi 6s ² 4f ¹⁴ 5d ¹⁰ 6p ³ 208.98 Bismuth	84 Po 6s ² 4f ¹⁴ 5d ¹⁰ 6p ⁴ 210 Polonium	85 At 6s ² 4f ¹⁴ 5d ¹⁰ 6p ⁵ 210 Astatine	86 Rn 6s ² 4f ¹⁴ 5d ¹⁰ 6p ⁶ 222 Radon
7	87 Fr 7s ¹ 223 Francium	88 Ra 7s ² 226 Radium	89 Ac** 7s ² 5f ¹⁴ 6d ¹ 227.01 Actinium	104 Rf 7s ² 5f ¹⁴ 6d ² 261 Rutherfordium	105 Db 7s ² 5f ¹⁴ 6d ³ 262 Dubnium	106 Sg 7s ² 5f ¹⁴ 6d ⁴ 266 Seaborgium	107 Bh 7s ² 5f ¹⁴ 6d ⁵ 264 Bohrium	108 Hs 7s ² 5f ¹⁴ 6d ⁶ 277 Hassium	109 Mt 7s ² 5f ¹⁴ 6d ⁷ 268 Meitnerium	110 Ds 7s ² 5f ¹⁴ 6d ⁹ 271 Darmstadtium	111 Rg 7s ² 5f ¹⁴ 6d ¹⁰ 272 Rontgenium	112 Cn 7s ² 5f ¹⁴ 6d ¹⁰ 285 Copernicium	113 Nh 7s ² 5f ¹⁴ 6d ¹⁰ 7p ¹ 284 Nihonium	114 Fl 7s ² 5f ¹⁴ 6d ¹⁰ 7p ² 289 Flerovium	115 Mc 7s ² 5f ¹⁴ 6d ¹⁰ 7p ³ 288 Moscovium	116 Lv 7s ² 5f ¹⁴ 6d ¹⁰ 7p ⁴ 292 Livermorium	117 Ts 7s ² 5f ¹⁴ 6d ¹⁰ 7p ⁵ 294 Tennessine	118 Og 7s ² 5f ¹⁴ 6d ¹⁰ 7p ⁶ 294 Oganesson

Atomic Number → 29 **Cu** ← Symbol

4s¹3d¹⁰ ← Electronic Configuration

63.54 ← Atomic Mass

Copper ← Element

f-block

* Lanthanides
4f-series

** Actinides
5f-series

58 Ce 4f ² 5d ⁰ 6s ² 140.12 Cerium	59 Pr 4f ³ 5d ⁰ 6s ² 140.91 Praseodymium	60 Nd 4f ⁴ 5d ⁰ 6s ² 144.24 Neodymium	61 Pm 4f ⁵ 5d ⁰ 6s ² 145 Promethium	62 Sm 4f ⁶ 5d ⁰ 6s ² 150.35 Samarium	63 Eu 4f ⁷ 5d ⁰ 6s ² 151.96 Europium	64 Gd 4f ⁷ 5d ¹ 6s ² 157.25 Gadolinium	65 Tb 4f ⁹ 5d ⁰ 6s ² 158.92 Terbium	66 Dy 4f ¹⁰ 5d ⁰ 6s ² 162.50 Dysprosium	67 Ho 4f ¹¹ 5d ⁰ 6s ² 164.93 Holmium	68 Er 4f ¹² 5d ⁰ 6s ² 167.93 Erbium	69 Tm 4f ¹³ 5d ⁰ 6s ² 168.93 Thulium	70 Yb 4f ¹⁴ 5d ⁰ 6s ² 173.04 Ytterbium	71 Lu 4f ¹⁴ 5d ¹ 6s ² 174.96 Lutetium
90 Th 5f ⁰ 6d ² 7s ² 232.04 Thorium	91 Pa 5f ² 6d ¹ 7s ² 231.04 Protactinium	92 U 5f ³ 6d ¹ 7s ² 238.03 Uranium	93 Np 5f ⁴ 6d ¹ 7s ² 237.05 Neptunium	94 Pu 5f ⁶ 6d ⁰ 7s ² 244 Plutonium	95 Am 5f ⁷ 6d ⁰ 7s ² 243 Americium	96 Cm 5f ⁷ 6d ¹ 7s ² 247.07 Curium	97 Bk 5f ⁹ 6d ¹ 7s ² 247 Berkelium	98 Cf 5f ¹⁰ 6d ⁰ 7s ² 251.08 Californium	99 Es 5f ¹¹ 6d ⁰ 7s ² 252 Einsteinium	100 Fm 5f ¹² 6d ⁰ 7s ² 257.10 Fermium	101 Md 5f ¹³ 6d ⁰ 7s ² 258.10 Mendelevium	102 No 5f ¹⁴ 6d ⁰ 7s ² 259.0 Nobelium	103 Lr 5f ¹⁴ 6d ¹ 7s ² 262.1 Lawrencium