

PERIODIC TABLE OF THE ELEMENTS

1 IA																	18 VIIIA
1 H Hydrogen 1.008 1																	2 He Helium 4.003 2
3 Li Lithium 6.941 2 1	4 Be Beryllium 9.012 2 2																
11 Na Sodium 22.990 2 8 1	12 Mg Magnesium 24.305 2 8 2																
19 K Potassium 39.098 2 8 8 1	20 Ca Calcium 40.078 2 8 8 2	21 Sc Scandium 44.956 2 8 9 2	22 Ti Titanium 47.867 2 8 10 2	23 V Vanadium 50.942 2 8 11 2	24 Cr Chromium 51.996 2 8 13 2	25 Mn Manganese 54.938 2 8 13 2	26 Fe Iron 55.845 2 8 14 2	27 Co Cobalt 58.933 2 8 15 2	28 Ni Nickel 58.693 2 8 16 2	29 Cu Copper 63.546 2 8 18 1	30 Zn Zinc 65.38 2 8 18 2	31 Ga Gallium 69.723 2 8 18 3	32 Ge Germanium 72.631 2 8 18 4	33 As Arsenic 74.922 2 8 18 5	34 Se Selenium 78.971 2 8 18 6	35 Br Bromine 79.904 2 8 18 7	36 Kr Krypton 83.798 2 8 18 8
37 Rb Rubidium 85.468 2 8 18 8 1	38 Sr Strontium 87.62 2 8 18 8 2	39 Y Yttrium 88.906 2 8 18 9 2	40 Zr Zirconium 91.224 2 8 18 10 2	41 Nb Niobium 92.906 2 8 18 12 1	42 Mo Molybdenum 95.95 2 8 18 13 1	43 Tc Technetium 98.907 2 8 18 13 2	44 Ru Ruthenium 101.07 2 8 18 15 1	45 Rh Rhodium 102.906 2 8 18 16 1	46 Pd Palladium 106.42 2 8 18 18	47 Ag Silver 107.868 2 8 18 18 1	48 Cd Cadmium 112.414 2 8 18 18 2	49 In Indium 114.818 2 8 18 18 3	50 Sn Tin 118.711 2 8 18 18 4	51 Sb Antimony 121.760 2 8 18 18 5	52 Te Tellurium 127.6 2 8 18 18 6	53 I Iodine 126.904 2 8 18 18 7	54 Xe Xenon 131.293 2 8 18 18 8
55 Cs Cesium 132.905 2 8 18 18 8 1	56 Ba Barium 137.328 2 8 18 18 8 2	57-71 Lanthanoids	72 Hf Hafnium 178.49 2 8 18 32 10 2	73 Ta Tantalum 180.948 2 8 18 32 11 2	74 W Tungsten 183.84 2 8 18 32 12 2	75 Re Rhenium 186.207 2 8 18 32 13 2	76 Os Osmium 190.23 2 8 18 32 14 2	77 Ir Iridium 192.217 2 8 18 32 15 2	78 Pt Platinum 195.085 2 8 18 32 17 1	79 Au Gold 196.967 2 8 18 32 18 1	80 Hg Mercury 200.592 2 8 18 32 18 2	81 Tl Thallium 204.383 2 8 18 32 18 3	82 Pb Lead 207.2 2 8 18 32 18 4	83 Bi Bismuth 208.980 2 8 18 32 18 5	84 Po Polonium [208.982] 2 8 18 32 18 6	85 At Astatine 209.987 2 8 18 32 18 7	86 Rn Radon 222.018 2 8 18 32 18 8
87 Fr Francium 223.020 2 8 18 32 18 8 1	88 Ra Radium 226.025 2 8 18 32 18 8 2	89-103 Actinoids	104 Rf Rutherfordium [261] 2 8 18 32 32 10 2	105 Db Dubnium [262] 2 8 18 32 32 11 2	106 Sg Seaborgium [266] 2 8 18 32 32 12 2	107 Bh Bohrium [264] 2 8 18 32 32 13 2	108 Hs Hassium [269] 2 8 18 32 32 14 2	109 Mt Meitnerium [278] 2 8 18 32 32 15 2	110 Ds Darmstadtium [281] 2 8 18 32 32 16 2	111 Rg Roentgenium [280] 2 8 18 32 32 17 2	112 Cn Copernicium [285] 2 8 18 32 32 18 2	113 Nh Nihonium [286] 2 8 18 32 32 18 3	114 Fl Flerovium [289] 2 8 18 32 32 18 4	115 Mc Moscovium [289] 2 8 18 32 32 18 5	116 Lv Livermorium [293] 2 8 18 32 32 18 6	117 Ts Tennessine [294] 2 8 18 32 32 18 7	118 Og Oganesson [294] 2 8 18 32 32 18 8

Group (IUPAC) → 11
Group (CAS) → IB

Atomic Number → 79
Symbol → Au
Name → Gold
Atomic Mass → 196.967

Oxidation States → +3, +1

Electron Shell Configuration → 2 8 18 32 18 1

ELECTRON SHELLS

Energy Level	1	2	3	4	5	6	7	8
Shell Name	K	L	M	N	O	P	Q	R
Max. Electrons	2	8	18	32	32	18	8	2
s	2	2	2	2	2	2	2	2
p		6	6	6	6	6	6	
d			10	10	10	10		
f				14	14			

Lanthanoids

57 La Lanthanum 138.905 2 8 18 18 9 2	58 Ce Cerium 140.116 2 8 18 19 9 2	59 Pr Praseodymium 140.908 2 8 18 21 8 2	60 Nd Neodymium 144.243 2 8 18 22 8 2	61 Pm Promethium 144.913 2 8 18 23 8 2	62 Sm Samarium 150.36 2 8 18 24 8 2	63 Eu Europium 151.964 2 8 18 25 8 2	64 Gd Gadolinium 157.25 2 8 18 25 9 2	65 Tb Terbium 158.925 2 8 18 27 8 2	66 Dy Dysprosium 162.500 2 8 18 28 8 2	67 Ho Holmium 164.930 2 8 18 29 8 2	68 Er Erbium 167.259 2 8 18 30 8 2	69 Tm Thulium 168.934 2 8 18 31 8 2	70 Yb Ytterbium 173.055 2 8 18 32 8 2	71 Lu Lutetium 174.967 2 8 18 32 9 2
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Actinoids

89 Ac Actinium 227.028 2 8 18 32 18 9 2	90 Th Thorium 232.038 2 8 18 32 18 10 2	91 Pa Protactinium 231.036 2 8 18 32 20 9 2	92 U Uranium 238.029 2 8 18 32 21 9 2	93 Np Neptunium 237.048 2 8 18 32 22 9 2	94 Pu Plutonium 244.064 2 8 18 32 24 8 2	95 Am Americium 243.061 2 8 18 32 25 8 2	96 Cm Curium 247.070 2 8 18 32 25 9 2	97 Bk Berkelium 247.070 2 8 18 32 27 8 2	98 Cf Californium 251.080 2 8 18 32 28 8 2	99 Es Einsteinium [254] 2 8 18 32 29 8 2	100 Fm Fermium 257.095 2 8 18 32 30 8 2	101 Md Mendelevium 258.1 2 8 18 32 31 8 2	102 No Nobelium 259.101 2 8 18 32 32 8 2	103 Lr Lawrencium [262] 2 8 18 32 32 8 3
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