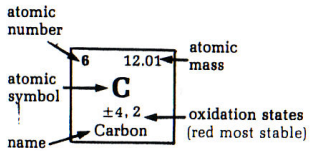
PERIODIC TABLE OF THE ELEMENTS



1A	2A	3B	4B	5B	6B	7B	8B	1B	2B	3A	4A	5A	6A	7A	8A
1 1.008 **H** 1 Hydrogen															2 4.003 **He** Helium
3 6.941 **Li** 1 Lithium	4 9.012 **Be** 2 Beryllium									5 10.81 **B** 3 Boron	6 12.01 **C** ±4, 2 Carbon	7 14.01 **N** ±5, 4, 3, 2 Nitrogen	8 16.00 **O** −2 Oxygen	9 19.00 **F** −1 Fluorine	10 20.18 **Ne** Neon
11 22.99 **Na** 1 Sodium	12 24.31 **Mg** 2 Magnesium									13 26.98 **Al** 3 Aluminum	14 28.09 **Si** 4 Silicon	15 30.97 **P** ±5, 4, 3 Phosphorus	16 32.06 **S** ±2, 4, 6 Sulfur	17 35.45 **Cl** ±1, 3, 5, 7 Chlorine	18 39.95 **Ar** Argon
19 39.10 **K** 1 Potassium	20 40.08 **Ca** 2 Calcium	21 44.96 **Sc** 3 Scandium	22 47.88 **Ti** 4, 3 Titanium	23 50.94 **V** 5, 4, 3, 2 Vanadium	24 52.00 **Cr** 6, 3, 2 Chromium	25 54.94 **Mn** 7, 6, 4, 3, 2 Manganese	26 55.85 **Fe** 2, 3 Iron	27 58.93 **Co** 2, 3 Cobalt	28 58.69 **Ni** 2, 3 Nickel	29 63.55 **Cu** 2, 1 Copper	30 65.39 **Zn** 2 Zinc	31 69.72 **Ga** 3 Gallium	32 72.59 **Ge** 4 Germanium	33 74.92 **As** ±5, 3 Arsenic	34 78.96 **Se** −2, 4, 6 Selenium	35 79.90 **Br** ±1, 5 Bromine	36 83.80 **Kr** 2 Krypton
37 85.47 **Rb** 1 Rubidium	38 87.62 **Sr** 2 Strontium	39 88.91 **Y** 3 Yttrium	40 91.22 **Zr** 4 Zirconium	41 92.91 **Nb** 5, 3 Niobium	42 95.94 **Mo** 6, 5, 4, 3, 2 Molybdenum	43 (98) **Tc** 7 Technetium	44 101.1 **Ru** 2, 3, 4, 6, 8 Ruthenium	45 102.9 **Rh** 2, 3, 4 Rhodium	46 106.4 **Pd** 2, 4 Palladium	47 107.9 **Ag** 1 Silver	48 112.4 **Cd** 2 Cadmium	49 114.8 **In** 3 Indium	50 118.7 **Sn** 4, 2 Tin	51 121.8 **Sb** ±5, 3 Antimony	52 127.6 **Te** −2, 4, 6 Tellurium	53 126.9 **I** ±1, 5, 7 Iodine	54 131.3 **Xe** 2, 4, 6, 8 Xenon
55 132.9 **Cs** 1 Cesium	56 137.3 **Ba** 2 Barium	57 138.9 **La**† 3 Lanthanum	72 178.5 **Hf** 4 Hafnium	73 180.9 **Ta** 5 Tantalum	74 183.9 **W** 6, 5, 4, 3, 2 Tungsten	75 186.2 **Re** 7, 6, 4, 2, -1 Rhenium	76 190.2 **Os** 2, 3, 4, 6, 8 Osmium	77 192.2 **Ir** 2, 3, 4, 6 Iridium	78 195.1 **Pt** 2, 4 Platinum	79 197.0 **Au** 3, 1 Gold	80 200.6 **Hg** 2, 1 Mercury	81 204.4 **Tl** 3, 1 Thallium	82 207.2 **Pb** 4, 2 Lead	83 209.0 **Bi** 5, 3 Bismuth	84 (209) **Po** 4, 2 Polonium	85 (210) **At** ±1, 3, 5, 7 Astatine	86 (222) **Rn** Radon
87 (223) **Fr** 1 Francium	88 (226) **Ra** 2 Radium	89 (227) **Ac**‡ 3 Actinium	104 (261) **Unq** Unnilquadium	105 (262) **Unp** Unnilpentium	106 (263) **Unh** Unnilhexium	107 (262) **Uns** Unnilseptium										Halogens	Noble Gases
Alkali Metals	Alkaline Earth Metals																

†**Lanthanides**	58 140.1 **Ce** 3, 4 Cerium	59 140.9 **Pr** 3, 4 Praseodymium	60 144.2 **Nd** 3 Neodymium	61 (145) **Pm** 3 Promethium	62 150.4 **Sm** 3, 2 Samarium	63 152.0 **Eu** 3, 2 Europium	64 157.3 **Gd** 3 Gadolinium	65 158.9 **Tb** 3, 4 Terbium	66 162.5 **Dy** 3 Dysprosium	67 164.9 **Ho** 3 Holmium	68 167.3 **Er** 3 Erbium	69 168.9 **Tm** 3, 2 Thulium	70 173.0 **Yb** 3, 2 Ytterbium	71 175.0 **Lu** 3 Lutetium
‡**Actinides**	90 232.0 **Th** 4 Thorium	91 231.0 **Pa** 5, 4 Protactinium	92 238.0 **U** 6, 5, 4, 3 Uranium	93 237.0 **Np** 6, 5, 4, 3 Neptunium	94 (244) **Pu** 6, 5, 4, 3 Plutonium	95 (243) **Am** 6, 5, 4, 3 Americium	96 (247) **Cm** 3 Curium	97 (247) **Bk** 4, 3 Berkelium	98 (251) **Cf** 3 Californium	99 (252) **Es** 3 Einsteinium	100 (257) **Fm** 3 Fermium	101 (258) **Md** Mendelevium	102 (259) **No** Nobelium	103 (260) **Lr** 3 Lawrencium