

1 1 H Hydrogen 1.0 2.1	2 3 Li Lithium 6.9 1.0	4 4 Be Beryllium 9.0 1.5	5 5 B Boron 10.8 2.0	6 6 C Carbon 12.0 2.5	7 7 N Nitrogen 14.0 3.0	8 8 O Oxygen 16.0 3.5	9 9 F Fluorine 19.0 4.0	10 10 Ne Neon 20.2	11 11 Na Sodium 23.0 0.9	12 12 Mg Magnesium 24.3 1.2	13 13 Al Aluminum 27.0 1.5	14 14 Si Silicon 28.1 1.8	15 15 P Phosphorus 31.0 2.1	16 16 S Sulfur 32.1 2.5	17 17 Cl Chlorine 35.5 3.0	18 18 Ar Argon 40.0	19 19 K Potassium 39.1 0.8	20 20 Ca Calcium 40.1 1.0	21 21 Sc Scandium 45.0 1.3	22 22 Ti Titanium 47.9 1.5	23 23 V Vanadium 50.9 1.6	24 24 Cr Chromium 52.0 1.6	25 25 Mn Manganese 54.9 1.5	26 26 Fe Iron 55.9 1.8	27 27 Co Cobalt 58.9 1.8	28 28 Ni Nickel 58.7 1.9	29 29 Cu Copper 63.6 1.9	30 30 Zn Zinc 65.4 1.6	31 31 Ga Gallium 69.7 1.6	32 32 Ge Germanium 72.6 1.8	33 33 As Arsenic 74.9 2.0	34 34 Se Selenium 79.0 2.4	35 35 Br Bromine 79.9 2.8	36 36 Kr Krypton 83.8	37 37 Rb Rubidium 85.5 0.8	38 38 Sr Strontium 87.6 1.0	39 39 Y Yttrium 88.9 1.3	40 40 Zr Zirconium 91.2 1.4	41 41 Nb Niobium 92.9 1.6	42 42 Mo Molybdenum 95.9 1.8	43 43 Tc Technetium 98.9 1.9	44 44 Ru Ruthenium 101.1 2.2	45 45 Rh Rhodium 102.9 2.2	46 46 Pd Palladium 106.4 2.2	47 47 Ag Silver 107.9 1.9	48 48 Cd Cadmium 112.4 1.7	49 49 In Indium 114.8 1.7	50 50 Sn Tin 118.7 1.8	51 51 Sb Antimony 121.8 1.9	52 52 Te Tellurium 127.6 2.1	53 53 I Iodine 126.9 2.5	54 54 Xe Xenon 131.3	55 55 Cs Cesium 132.9 0.7	56 56 Ba Barium 137.3 0.9	71 71 Lu Lutetium 174.5 1.2	72 72 Hf Hafnium 178.5 1.3	73 73 Ta Tantalum 181.0 1.5	74 74 W Tungsten 183.9 1.7	75 75 Re Rhenium 186.2 1.9	76 76 Os Osmium 190.2 2.2	77 77 Ir Iridium 192.2 2.2	78 78 Pt Platinum 195.1 2.2	79 79 Au Gold 197.0 2.4	80 80 Hg Mercury 200.6 1.9	81 81 Tl Thallium 204.4 1.8	82 82 Pb Lead 207.2 1.8	83 83 Bi Bismuth 210.0 1.9	84 84 Po Polonium [209] 2.0	85 85 At Astatine [210] 2.2	86 86 Rn Radon [222]	87 87 Fr Francium [223] 0.7	88 88 Ra Radium 226.03 0.9	103 103 Lr Lawrencium [260]	104 104 Rf Rutherfordium [261]	105 105 Db Dubnium [262]	106 106 Sg Seaborgium [266]	107 107 Bh Bohrium [264]	108 108 Hs Hassium [269]	109 109 Mt Meitnerium [268]	110 110 Uun Ununnilium [269,271]	111 111 Uuu Unununium [272]	112 112 Uub Ununbium [277]	113 113 Uuq Ununquadium [289]	114 114 Uuq Ununquadium [289]	115 115 Uuh Ununhexium [289]	116 116 Uuh Ununhexium [289]	117 117 Uuh Ununhexium [289]	118 118 Uuo Ununoctium [293]
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Atomic Number

8

2

Valence

(most common first)

O

Symbol of Element

Atomic Mass

16.0

3.5

Electronegativity

57 3,2 La Lanthanum 138.9 1.1	58 3 Ce Cerium 140.1 1.1	59 3 Pr Praseodymium 140.9 1.1	60 3 Nd Neodymium 144.2 1.2	61 3 Pm Promethium [145] 0.0	62 3,2 Sm Samarium 150.4 1.2	63 3,2 Eu Europium 152.0	64 3 Gd Gadolinium 157.3 1.1	65 3 Tb Terbium 158.9 1.2	66 3 Dy Dysprosium 162.5	67 3 Ho Holmium 164.3 1.2	68 3 Er Erbium 167.3 1.2	69 3 Tm Thulium 168.9 1.2	70 3,2 Yb Ytterbium 173.0 1.1	89 3,2 Ac Actinium 227.0 1.1	90 4 Th Thorium 232.0 1.3	91 5,4 Pa Protactinium 231.0 1.5	92 6,4 U Uranium 238.0 1.7	93 5 Np Neptunium [237] 1.3	94 4,6 Pu Plutonium [244] 1.3	95 3,4 Am Americium [243]	96 3 Cm Curium [247]	97 3,4 Bk Berkelium [247]	98 3 Cf Californium [251]	99 3 Es Einsteinium [252]	100 3 Fm Fermium [257]	101 2,3 Md Mendelevium [258]	102 2,3 No Nobelium [259]
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