

# PERIODIC TABLE OF ELEMENTS

1 <b>H</b> hydrogen 1.0079																	2 <b>He</b> Helium 4.0026						
3 <b>Li</b> lithium 6.941	4 <b>Be</b> beryllium 9.0122																	5 <b>B</b> boron 10.811	6 <b>C</b> carbon 12.011	7 <b>N</b> nitrogen 14.007	8 <b>O</b> oxygen 15.999	9 <b>F</b> fluorine 18.998	10 <b>Ne</b> neon 20.180
11 <b>Na</b> sodium 22.990	12 <b>Mg</b> magnesium 24.305																	13 <b>Al</b> aluminium 26.982	14 <b>Si</b> silicon 28.086	15 <b>P</b> phosphorus 30.974	16 <b>S</b> sulfur 32.065	17 <b>Cl</b> chlorine 35.453	18 <b>Ar</b> argon 39.948
19 <b>K</b> potassium 39.098	20 <b>Ca</b> calcium 40.078	21 <b>Sc</b> scandium 44.956	22 <b>Ti</b> titanium 47.867	23 <b>V</b> vanadium 50.942	24 <b>Cr</b> chromium 51.996	25 <b>Mn</b> manganese 54.938	26 <b>Fe</b> iron 55.845	27 <b>Co</b> cobalt 58.933	28 <b>Ni</b> nickel 58.693	29 <b>Cu</b> copper 63.546	30 <b>Zn</b> zinc 65.39	31 <b>Ga</b> gallium 69.723	32 <b>Ge</b> germanium 72.61	33 <b>As</b> arsenic 74.922	34 <b>Se</b> selenium 78.96	35 <b>Br</b> bromine 79.904	36 <b>Kr</b> krypton 83.80						
37 <b>Rb</b> rubidium 85.468	38 <b>Sr</b> strontium 87.62	39 <b>Y</b> yttrium 88.906	40 <b>Zr</b> zirconium 91.224	41 <b>Nb</b> niobium 92.906	42 <b>Mo</b> molybdenum 95.94	43 <b>Tc</b> technetium [98]	44 <b>Ru</b> ruthenium 101.07	45 <b>Rh</b> rhodium 102.91	46 <b>Pd</b> palladium 106.42	47 <b>Ag</b> silver 107.87	48 <b>Cd</b> cadmium 112.87	49 <b>In</b> indium 114.82	50 <b>Sn</b> tin 118.71	51 <b>Sb</b> antimony 121.76	52 <b>Te</b> tellurium 127.60	53 <b>I</b> iodine 126.90	54 <b>Xe</b> xenon 131.29						
55 <b>Cs</b> caesium 132.91	56 <b>Ba</b> barium 137.33	57-71 *	72 <b>Hf</b> hafnium 178.49	73 <b>Ta</b> tantalum 180.95	74 <b>W</b> tungsten 183.84	75 <b>Re</b> rhenium 186.21	76 <b>Os</b> osmium 190.23	77 <b>Ir</b> iridium 192.22	78 <b>Pt</b> platinum 195.08	79 <b>Au</b> gold 196.97	80 <b>Hg</b> mercury 200.59	81 <b>Tl</b> thallium 204.38	82 <b>Pb</b> lead 207.2	83 <b>Bi</b> bismuth 208.98	84 <b>Po</b> polonium [209]	85 <b>At</b> astatine [210]	86 <b>Rn</b> radon [222]						
87 <b>Fr</b> francium [223]	88 <b>Ra</b> radium [226]	89-103 *	104 <b>Rf</b> rutherfordium [261]	105 <b>Db</b> dubnium [262]	106 <b>Sg</b> seaborgium [266]	107 <b>Bh</b> bohrium [264]	108 <b>Hs</b> hassium [269]	109 <b>Mt</b> meitnerium [268]	110 <b>Ds</b> darmstadtium [271]	111 <b>Rg</b> roentgenium [272]	112 <b>Cn</b> copernicium [277]	113 <b>Nh</b> nihonium 286	114 <b>Fl</b> flerovium 298	115 <b>Mc</b> moscovium 288	116 <b>Lv</b> livermorium 292	117 <b>Ts</b> tennessine 294	118 <b>Og</b> oganesson 294						
* Lanthanide series		57 <b>La</b> lanthanum 138.91	58 <b>Ce</b> cerium 140.12	59 <b>Pr</b> praseodymium 140.91	60 <b>Nd</b> neodymium 144.24	61 <b>Pm</b> promethium [145]	62 <b>Sm</b> samarium 150.36	63 <b>Eu</b> europium 151.96	64 <b>Gd</b> gadolinium 157.25	65 <b>Tb</b> terbium 158.93	66 <b>Dy</b> dysprosium 162.50	67 <b>Ho</b> holmium 164.93	68 <b>Er</b> erbium 167.26	69 <b>Tm</b> thulium 168.93	70 <b>Yb</b> ytterbium 173.04	71 <b>Lu</b> lutetium 174.97							
* Actinide series		89 <b>Ac</b> actinium [227]	90 <b>Th</b> thorium 232.04	91 <b>Pa</b> protactinium 231.04	92 <b>U</b> uranium 238.03	93 <b>Np</b> neptunium [237]	94 <b>Pu</b> plutonium [244]	95 <b>Am</b> americium [243]	96 <b>Cm</b> curium [247]	97 <b>Bk</b> berkelium [247]	98 <b>Cf</b> californium [251]	99 <b>Es</b> einsteinium [252]	100 <b>Fm</b> fermium [257]	101 <b>Md</b> mendelevium [258]	102 <b>No</b> nobelium [259]	103 <b>Lr</b> lawrencium [262]							

Primary Macronutrient

Secondary Macronutrient

Micronutrient

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