

# PERIODIC TABLE OF ELEMENTS

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

For plant nutrients:

■ Primary Macronutrient
 ■ Secondary Macronutrient
 ■ Micronutrient

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