

# Periodic Table of the Elements

|   |                            |                            |                              |                                 |                            |                              |                             |                           |                              |                                |                               |                          |                            |                          |                           |                            |                            |                         |                          |
|---|----------------------------|----------------------------|------------------------------|---------------------------------|----------------------------|------------------------------|-----------------------------|---------------------------|------------------------------|--------------------------------|-------------------------------|--------------------------|----------------------------|--------------------------|---------------------------|----------------------------|----------------------------|-------------------------|--------------------------|
| 1 | 1A                         |                            |                              |                                 |                            |                              |                             |                           |                              |                                |                               |                          |                            |                          |                           |                            |                            | 18                      | 8A                       |
| 1 | 1                          | 2                          |                              |                                 |                            |                              |                             |                           |                              |                                |                               |                          |                            |                          |                           |                            |                            |                         | 2                        |
|   | H<br>1.00794<br>Hydrogen   | 2                          |                              |                                 |                            |                              |                             |                           |                              |                                |                               |                          |                            |                          |                           |                            |                            |                         | He<br>4.002602<br>Helium |
| 2 | 3                          | 4                          |                              |                                 |                            |                              |                             |                           |                              |                                |                               |                          |                            |                          |                           |                            |                            |                         |                          |
|   | Li<br>6.941<br>Lithium     | Be<br>9.01218<br>Beryllium |                              |                                 |                            |                              |                             |                           |                              |                                |                               |                          |                            |                          |                           |                            |                            |                         |                          |
| 3 | 11                         | 12                         |                              |                                 |                            |                              |                             |                           |                              |                                |                               |                          |                            |                          |                           |                            |                            |                         |                          |
|   | Na<br>22.98977<br>Sodium   | Mg<br>24.3050<br>Magnesium |                              |                                 |                            |                              |                             |                           |                              |                                |                               |                          |                            |                          |                           |                            |                            |                         |                          |
|   |                            |                            | 3                            | 4                               | 5                          | 6                            | 7                           | 8                         | 9                            | 10                             | 11                            | 12                       |                            |                          |                           |                            |                            |                         |                          |
|   |                            |                            | 3B                           | 4B                              | 5B                         | 6B                           | 7B                          | 8B                        | 8B                           | 8B                             | 1B                            | 2B                       |                            |                          |                           |                            |                            |                         |                          |
| 4 | 19                         | 20                         | 21                           | 22                              | 23                         | 24                           | 25                          | 26                        | 27                           | 28                             | 29                            | 30                       | 31                         | 32                       | 33                        | 34                         | 35                         | 36                      |                          |
|   | K<br>39.0983<br>Potassium  | Ca<br>40.078<br>Calcium    | Sc<br>44.95591<br>Scandium   | Ti<br>47.867<br>Titanium        | V<br>50.9415<br>Vanadium   | Cr<br>51.9961<br>Chromium    | Mn<br>54.93805<br>Manganese | Fe<br>55.845<br>Iron      | Co<br>58.93320<br>Cobalt     | Ni<br>58.6934<br>Nickel        | Cu<br>63.546<br>Copper        | Zn<br>65.39<br>Zinc      | Ga<br>69.723<br>Gallium    | Ge<br>72.64<br>Germanium | As<br>74.92160<br>Arsenic | Se<br>78.96<br>Selenium    | Br<br>79.904<br>Bromine    | Kr<br>83.80<br>Krypton  |                          |
| 5 | 37                         | 38                         | 39                           | 40                              | 41                         | 42                           | 43                          | 44                        | 45                           | 46                             | 47                            | 48                       | 49                         | 50                       | 51                        | 52                         | 53                         | 54                      |                          |
|   | Rb<br>85.4678<br>Rubidium  | Sr<br>87.62<br>Strontium   | Y<br>88.90585<br>Yttrium     | Zr<br>91.224<br>Zirconium       | Nb<br>92.9064<br>Niobium   | Mo<br>95.94<br>Molybdenum    | Tc<br>[98]<br>Technetium    | Ru<br>101.07<br>Ruthenium | Rh<br>102.9055<br>Rhodium    | Pd<br>106.42<br>Palladium      | Ag<br>107.8682<br>Silver      | Cd<br>112.411<br>Cadmium | In<br>114.818<br>Indium    | Sn<br>118.710<br>Tin     | Sb<br>121.760<br>Antimony | Te<br>127.60<br>Tellurium  | I<br>126.9045<br>Iodine    | Xe<br>131.293<br>Xenon  |                          |
| 6 | 55                         | 56 *                       | 71                           | 72                              | 73                         | 74                           | 75                          | 76                        | 77                           | 78                             | 79                            | 80                       | 81                         | 82                       | 83                        | 84                         | 85                         | 86                      |                          |
|   | Cs<br>132.9055<br>Cesium   | Ba<br>137.327<br>Barium    | Lu<br>174.967<br>Lutetium    | Hf<br>178.49<br>Hafnium         | Ta<br>180.9479<br>Tantalum | W<br>183.84<br>Tungsten      | Re<br>186.207<br>Rhenium    | Os<br>190.23<br>Osmium    | Ir<br>192.217<br>Iridium     | Pt<br>195.078<br>Platinum      | Au<br>196.96655<br>Gold       | Hg<br>200.59<br>Mercury  | Tl<br>204.3833<br>Thallium | Pb<br>207.2<br>Lead      | Bi<br>208.9804<br>Bismuth | Po<br>[208.98]<br>Polonium | At<br>[209.99]<br>Astatine | Rn<br>[222.02]<br>Radon |                          |
| 7 | 87                         | 88 **                      | 103                          | 104                             | 105                        | 106                          | 107                         | 108                       | 109                          | 110                            | 111                           | 112                      | 113                        | 114                      | 115                       | 116                        |                            |                         |                          |
|   | Fr<br>[223.02]<br>Francium | Ra<br>[226.03]<br>Radium   | Lr<br>[262.11]<br>Lawrencium | Rf<br>[261.11]<br>Rutherfordium | Db<br>[262.11]<br>Dubnium  | Sg<br>[266.12]<br>Seaborgium | Bh<br>[264.12]<br>Bohrium   | Hs<br>[269.13]<br>Hassium | Mt<br>[268.14]<br>Meitnerium | Ds<br>[281.15]<br>Darmstadtium | Rg<br>[272.15]<br>Roentgenium |                          |                            |                          |                           |                            |                            |                         |                          |

|    |                             |                           |                                |                           |                             |                             |                             |                            |                             |                               |                               |                           |                               |                            |
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| *  | 57                          | 58                        | 59                             | 60                        | 61                          | 62                          | 63                          | 64                         | 65                          | 66                            | 67                            | 68                        | 69                            | 70                         |
|    | La<br>138.9055<br>Lanthanum | Ce<br>140.116<br>Cerium   | Pr<br>140.9077<br>Praseodymium | Nd<br>144.24<br>Neodymium | Pm<br>[145]<br>Promethium   | Sm<br>150.36<br>Samarium    | Eu<br>151.964<br>Europium   | Gd<br>157.25<br>Gadolinium | Tb<br>158.9253<br>Terbium   | Dy<br>162.50<br>Dysprosium    | Ho<br>164.9303<br>Holmium     | Er<br>167.259<br>Erbium   | Tm<br>168.93421<br>Thulium    | Yb<br>173.04<br>Ytterbium  |
| ** | 89                          | 90                        | 91                             | 92                        | 93                          | 94                          | 95                          | 96                         | 97                          | 98                            | 99                            | 100                       | 101                           | 102                        |
|    | Ac<br>[227.03]<br>Actinium  | Th<br>232.0381<br>Thorium | Pa<br>231.0359<br>Protactinium | U<br>238.0289<br>Uranium  | Np<br>[237.05]<br>Neptunium | Pu<br>[244.06]<br>Plutonium | Am<br>[243.06]<br>Americium | Cm<br>[247.07]<br>Curium   | Bk<br>[247.07]<br>Berkelium | Cf<br>[251.08]<br>Californium | Es<br>[252.08]<br>Einsteinium | Fm<br>[257.10]<br>Fermium | Md<br>[258.10]<br>Mendelevium | No<br>[259.10]<br>Nobelium |

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