

## Periodic Table of the Elements

|                    |                    |                    |                    |                    |                   |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                   |                    |
|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|
| 1<br>H<br>1.01     |                    |                    |                    |                    |                   |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    | 2<br>He<br>4.00   |                    |
| 3<br>Li<br>6.94    | 4<br>Be<br>9.01    |                    |                    |                    |                   |                    |                    |                    |                    |                    |                    | 5<br>B<br>10.81    | 6<br>C<br>12.01    | 7<br>N<br>14.01    | 8<br>O<br>16.00    | 9<br>F<br>19.00   | 10<br>Ne<br>20.18  |
| 11<br>Na<br>22.99  | 12<br>Mg<br>24.31  |                    |                    |                    |                   |                    |                    |                    |                    |                    |                    | 13<br>Al<br>26.98  | 14<br>Si<br>28.09  | 15<br>P<br>30.97   | 16<br>S<br>32.07   | 17<br>Cl<br>35.45 | 18<br>Ar<br>39.95  |
| 19<br>K<br>39.10   | 20<br>Ca<br>40.08  | 21<br>Sc<br>44.96  | 22<br>Ti<br>47.87  | 23<br>V<br>50.94   | 24<br>Cr<br>52.00 | 25<br>Mn<br>54.94  | 26<br>Fe<br>55.845 | 27<br>Co<br>58.93  | 28<br>Ni<br>58.69  | 29<br>Cu<br>63.55  | 30<br>Zn<br>65.39  | 31<br>Ga<br>69.72  | 32<br>Ge<br>72.61  | 33<br>As<br>74.92  | 34<br>Se<br>78.96  | 35<br>Br<br>79.90 | 36<br>Kr<br>83.80  |
| 37<br>Rb<br>85.47  | 38<br>Sr<br>87.62  | 39<br>Y<br>88.91   | 40<br>Zr<br>91.22  | 41<br>Nb<br>92.91  | 42<br>Mo<br>95.94 | 43<br>Tc<br>98     | 44<br>Ru<br>101.07 | 45<br>Rh<br>102.91 | 46<br>Pd<br>106.42 | 47<br>Ag<br>107.87 | 48<br>Cd<br>112.41 | 49<br>In<br>114.81 | 50<br>Sn<br>118.71 | 51<br>Sb<br>121.76 | 52<br>Te<br>127.60 | 53<br>I<br>126.90 | 54<br>Xe<br>131.29 |
| 55<br>Cs<br>132.91 | 56<br>Ba<br>137.33 | 57<br>La<br>138.91 | 72<br>Hf<br>178.49 | 73<br>Ta<br>180.95 | 74<br>W<br>183.84 | 75<br>Re<br>186.21 | 76<br>Os<br>190.23 | 77<br>Ir<br>192.22 | 78<br>Pt<br>195.08 | 79<br>Au<br>196.97 | 80<br>Hg<br>200.59 | 81<br>Tl<br>204.38 | 82<br>Pb<br>207.2  | 83<br>Bi<br>208.98 | 84<br>Po<br>209    | 85<br>At<br>210   | 86<br>Rn<br>222    |
| 87<br>Fr<br>223    | 88<br>Ra<br>226    | 89<br>Ac<br>227    | 104<br>Rf<br>261   | 105<br>Db<br>262   | 106<br>Sg<br>263  | 107<br>Bh<br>264   | 108<br>Hs<br>265   | 109<br>Mt<br>268   | 110<br>Uun<br>269  | 111<br>Uuu<br>272  | 112<br>Uub<br>277  | 113                | 114<br>Uuq<br>289  | 115                | 116<br>Uuh<br>289  | 117               | 118<br>Uuo<br>293  |

|                    |                    |                    |                 |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
|--------------------|--------------------|--------------------|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 58<br>Ce<br>140.12 | 59<br>Pr<br>140.91 | 60<br>Nd<br>144.24 | 61<br>Pm<br>145 | 62<br>Sm<br>150.36 | 63<br>Eu<br>151.96 | 64<br>Gd<br>157.25 | 65<br>Tb<br>158.92 | 66<br>Dy<br>162.50 | 67<br>Ho<br>164.93 | 68<br>Er<br>167.26 | 69<br>Tm<br>168.93 | 70<br>Yb<br>173.04 | 71<br>Lu<br>174.97 |
| 90<br>Th<br>232.04 | 91<br>Pa<br>231.04 | 92<br>U<br>238.03  | 93<br>Np<br>237 | 94<br>Pu<br>244    | 95<br>Am<br>243    | 96<br>Cm<br>247    | 97<br>Bk<br>247    | 98<br>Cf<br>251    | 99<br>Es<br>252    | 100<br>Fm<br>257   | 101<br>Md<br>258   | 102<br>No<br>259   | 103<br>Lr<br>262   |