# The Periodic Table of the Elements

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen<br>1.008<br>H<br>1 | | | | | | | | | | | | | | | | | Helium<br>4.003<br>He<br>2 |
| Lithium<br>6.941<br>Li<br>3 | Beryllium<br>9.012<br>Be<br>4 | | | | | | | | | | | Boron<br>10.811<br>B<br>5 | Carbon<br>12.011<br>C<br>6 | Nitrogen<br>14.007<br>N<br>7 | Oxygen<br>15.999<br>O<br>8 | Fluorine<br>18.998<br>F<br>9 | Neon<br>20.180<br>Ne<br>10 |
| Sodium<br>22.990<br>Na<br>11 | Magnesium<br>24.305<br>Mg<br>12 | | | | | | | | | | | Aluminum<br>26.982<br>Al<br>13 | Silicon<br>28.086<br>Si<br>14 | Phosphorus<br>30.974<br>P<br>15 | Sulfur<br>32.066<br>S<br>16 | Chlorine<br>35.453<br>Cl<br>17 | Argon<br>39.948<br>Ar<br>18 |
| Potassium<br>39.098<br>K<br>19 | Calcium<br>40.08<br>Ca<br>20 | Scandium<br>44.956<br>Sc<br>21 | Titanium<br>47.88<br>Ti<br>22 | Vanadium<br>50.942<br>V<br>23 | Chromium<br>51.996<br>Cr<br>24 | Manganese<br>54.938<br>Mn<br>25 | Iron<br>55.847<br>Fe<br>26 | Cobalt<br>58.933<br>Co<br>27 | Nickel<br>58.69<br>Ni<br>28 | Copper<br>63.546<br>Cu<br>29 | Zinc<br>65.39<br>Zn<br>30 | Gallium<br>69.723<br>Ga<br>31 | Germanium<br>72.61<br>Ge<br>32 | Arsenic<br>74.922<br>As<br>33 | Selenium<br>78.96<br>Se<br>34 | Bromine<br>79.904<br>Br<br>35 | Krypton<br>83.80<br>Kr<br>36 |
| Rubidium<br>85.47<br>Rb<br>37 | Strontium<br>87.62<br>Sr<br>38 | Yttrium<br>88.906<br>Y<br>39 | Zirconium<br>91.224<br>Zr<br>40 | Niobium<br>92.906<br>Nb<br>41 | Molybdenum<br>95.94<br>Mo<br>42 | Technetium<br>(98)<br>Tc<br>43 | Ruthenium<br>101.07<br>Ru<br>44 | Rhodium<br>102.91<br>Rh<br>45 | Palladium<br>106.42<br>Pd<br>46 | Silver<br>107.87<br>Ag<br>47 | Cadmium<br>112.41<br>Cd<br>48 | Indium<br>114.82<br>In<br>49 | Tin<br>118.71<br>Sn<br>50 | Antimony<br>121.75<br>Sb<br>51 | Tellurium<br>127.60<br>Te<br>52 | Iodine<br>126.90<br>I<br>53 | Xenon<br>131.29<br>Xe<br>54 |
| Cesium<br>132.90<br>Cs<br>55 | Barium<br>137.33<br>Ba<br>56 | Lanthanum<br>138.91<br>La<br>57 | Hafnium<br>178.49<br>Hf<br>72 | Tantalum<br>180.95<br>Ta<br>73 | Tungsten<br>183.85<br>W<br>74 | Rhenium<br>186.21<br>Re<br>75 | Osmium<br>190.2<br>Os<br>76 | Iridium<br>192.22<br>Ir<br>77 | Platinum<br>195.08<br>Pt<br>78 | Gold<br>196.97<br>Au<br>79 | Mercury<br>200.59<br>Hg<br>80 | Thallium<br>204.38<br>Tl<br>81 | Lead<br>207.2<br>Pb<br>82 | Bismuth<br>208.98<br>Bi<br>83 | Polonium<br>(209)<br>Po<br>84 | Astatine<br>(210)<br>At<br>85 | Radon<br>(222)<br>Rn<br>86 |
| Francium<br>(223)<br>Fr<br>87 | Radium<br>(226)<br>Ra<br>88 | Actinium<br>(227)<br>Ac<br>89 | Rutherfordium<br>(261)<br>Rf<br>104 | Dubnium<br>(262)<br>Db<br>105 | Seaborgium<br>(263)<br>Sg<br>106 | Bohrium<br>(262)<br>Bh<br>107 | Hassium<br>(265)<br>Hs<br>108 | Meitnerium<br>(266)<br>Mt<br>109 | Ununnilium<br>(272)<br>Uun<br>110 | Unununium<br>Uuu<br>111 | Ununbium<br>Uub<br>112 | Ununtrium<br>Uut<br>113 | Ununquadium<br>Uuq<br>114 | Ununpentium<br>Uup<br>115 | Ununhexium<br>Uuh<br>116 | Ununseptium<br>Uus<br>117 | Ununoctium<br>Uuo<br>118 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cerium<br>140.12<br>Ce<br>58 | Praseodymium<br>140.91<br>Pr<br>59 | Neodymium<br>144.24<br>Nd<br>60 | Promethium<br>(145)<br>Pm<br>61 | Samarium<br>150.36<br>Sm<br>62 | Europium<br>151.96<br>Eu<br>63 | Gadolinium<br>157.25<br>Gd<br>64 | Terbium<br>158.92<br>Tb<br>65 | Dysprosium<br>162.50<br>Dy<br>66 | Holmium<br>164.93<br>Ho<br>67 | Erbium<br>167.26<br>Er<br>68 | Thulium<br>168.93<br>Tm<br>69 | Ytterbium<br>173.04<br>Yb<br>70 | Lutetium<br>174.97<br>Lu<br>71 |
| Thorium<br>232.04<br>Th<br>90 | Protactinium<br>213.04<br>Pa<br>91 | Uranium<br>238.03<br>U<br>92 | Neptunium<br>(237)<br>Np<br>93 | Plutonium<br>(244)<br>Pu<br>94 | Americium<br>(243)<br>Am<br>95 | Curium<br>(247)<br>Cm<br>96 | Berkelium<br>(247)<br>Bk<br>97 | Californium<br>(251)<br>Cf<br>98 | Einsteinium<br>(254)<br>Es<br>99 | Fermium<br>(257)<br>Fm<br>100 | Mendelevium<br>(258)<br>Md<br>101 | Nobelium<br>(259)<br>No<br>102 | Lawrencium<br>(260)<br>Lr<br>103 |