

# The Periodic Table of Elements

1      2

|   |          |          |
|---|----------|----------|
| 1 | <b>H</b> | hydrogen |
|---|----------|----------|

## Key

|                      |
|----------------------|
| relative atomic mass |
| atomic symbol        |
| name                 |

| 3                                 | 4                                | 5                                  | 6                                       | 7                                 | 0                                    | 4                                 |
|-----------------------------------|----------------------------------|------------------------------------|---|-----------------------------------|--------------------------------------|-----------------------------------|
| 11 <b>B</b><br>boron<br>5         | 12 <b>C</b><br>carbon<br>6       | 14 <b>N</b><br>nitrogen<br>7       | 16 <b>O</b><br>oxygen<br>8              | 19 <b>F</b><br>fluorine<br>9      | 20 <b>Ne</b><br>neon<br>10           | He<br>helium<br>2                 |
| 27 <b>Al</b><br>aluminium<br>13   | 28 <b>Si</b><br>silicon<br>14    | 31 <b>P</b><br>phosphorus<br>15    | 32 <b>S</b><br>sulfur<br>16             | 35.5 <b>Cl</b><br>chlorine<br>17  | 40 <b>Ar</b><br>argon<br>18          |                                   |
| 39 <b>K</b><br>potassium<br>19    | 40 <b>Ca</b><br>calcium<br>20    | 45 <b>Sc</b><br>scandium<br>21     | 48 <b>Ti</b><br>titanium<br>22          | 51 <b>V</b><br>vanadium<br>23     | 52 <b>Cr</b><br>chromium<br>24       | 55 <b>Mn</b><br>manganese<br>25   |
| 85 <b>Rb</b><br>rubidium<br>37    | 88 <b>Sr</b><br>strontium<br>38  | 89 <b>Y</b><br>yttrium<br>39       | 91 <b>Nb</b><br>niobium<br>41           | 93 <b>Mo</b><br>molybdenum<br>42  | [97] <b>Tc</b><br>technetium<br>43   | 101 <b>Ru</b><br>ruthenium<br>44  |
| 133 <b>Cs</b><br>caesium<br>55    | 137 <b>Ba</b><br>barium<br>56    | 139 <b>La*</b><br>lanthanum<br>57  | 178 <b>Hf</b><br>hafnium<br>72          | 181 <b>Ta</b><br>tantalum<br>73   | 184 <b>W</b><br>tungsten<br>74       | 186 <b>Re</b><br>rhodium<br>75    |
| [223] <b>Fr</b><br>francium<br>87 | [226] <b>Ra</b><br>radium<br>88  | [227] <b>Ac*</b><br>actinium<br>89 | [267] <b>Rf</b><br>rutherfordium<br>104 | [270] <b>Db</b><br>dubnium<br>105 | [269] <b>Sg</b><br>seaborgium<br>106 | [270] <b>Bh</b><br>bohrium<br>107 |
| 7 <b>Li</b><br>lithium<br>3       | 9 <b>Be</b><br>beryllium<br>4    | 11 <b>Na</b><br>sodium<br>11       | 23 <b>Mg</b><br>magnesium<br>12         | 30 <b>Ca</b><br>calcium<br>20     | 31 <b>Sc</b><br>scandium<br>21       | 32 <b>V</b><br>vanadium<br>23     |
| 36 <b>Kr</b><br>krypton<br>36     | 38 <b>Xe</b><br>xenon<br>54      | 39 <b>Rn</b><br>radon<br>86        | 40 <b>At</b><br>astatine<br>85          | 41 <b>Po</b><br>polonium<br>84    | 42 <b>At</b><br>astatine<br>85       | 43 <b>Rn</b><br>radon<br>86       |
| 59 <b>Ni</b><br>nickel<br>28      | 60 <b>Co</b><br>cobalt<br>27     | 61 <b>Rh</b><br>rhodium<br>45      | 62 <b>Pd</b><br>palladium<br>46         | 63 <b>Ag</b><br>silver<br>47      | 64 <b>Cd</b><br>cadmium<br>48        | 65 <b>Zn</b><br>zinc<br>30        |
| 66 <b>Ga</b><br>gallium<br>31     | 67 <b>Ge</b><br>germanium<br>32  | 68 <b>In</b><br>indium<br>49       | 69 <b>Sn</b><br>tin<br>50               | 70 <b>Tl</b><br>thallium<br>81    | 71 <b>Te</b><br>tellurium<br>52      | 72 <b>I</b><br>iodine<br>53       |
| 73 <b>Ge</b><br>germanium<br>31   | 74 <b>As</b><br>arsenic<br>33    | 75 <b>Sb</b><br>antimony<br>51     | 76 <b>Bi</b><br>bismuth<br>83           | 77 <b>Pb</b><br>lead<br>82        | 78 <b>Po</b><br>polonium<br>84       | 79 <b>At</b><br>astatine<br>85    |
| 79 <b>Se</b><br>selenium<br>34    | 80 <b>Br</b><br>bromine<br>35    | 81 <b>Te</b><br>tellurium<br>52    | 82 <b>Bi</b><br>bismuth<br>83           | 83 <b>Pb</b><br>lead<br>82        | 84 <b>Po</b><br>polonium<br>84       | 85 <b>At</b><br>astatine<br>85    |
| 84 <b>Kr</b><br>krypton<br>36     | 86 <b>Xe</b><br>xenon<br>54      | 87 <b>Rn</b><br>radon<br>86        | 88 <b>At</b><br>astatine<br>85          | 89 <b>Po</b><br>polonium<br>84    | 90 <b>At</b><br>astatine<br>85       | 91 <b>Rn</b><br>radon<br>86       |
| 92 <b>Cu</b><br>copper<br>29      | 93 <b>Ni</b><br>nickel<br>28     | 94 <b>Sn</b><br>tin<br>50          | 95 <b>Hg</b><br>mercury<br>80           | 96 <b>Tl</b><br>thallium<br>81    | 97 <b>Te</b><br>tellurium<br>52      | 98 <b>At</b><br>astatine<br>85    |
| 95 <b>Fe</b><br>iron<br>26        | 96 <b>Mo</b><br>molybdenum<br>42 | 97 <b>Ru</b><br>ruthenium<br>44    | 98 <b>Pt</b><br>platinum<br>78          | 99 <b>Au</b><br>gold<br>79        | 100 <b>Pb</b><br>lead<br>82          | 101 <b>At</b><br>astatine<br>85   |
| 98 <b>Cr</b><br>chromium<br>24    | 99 <b>Tc</b><br>technetium<br>43 | 100 <b>Rh</b><br>rhodium<br>45     | 101 <b>Ir</b><br>iridium<br>77          | 102 <b>Hg</b><br>mercury<br>80    | 103 <b>Tl</b><br>thallium<br>81      | 104 <b>At</b><br>astatine<br>85   |
| 102 <b>Os</b><br>osmium<br>76     | 103 <b>Ru</b><br>ruthenium<br>44 | 104 <b>Pd</b><br>palladium<br>46   | 105 <b>Ir</b><br>iridium<br>77          | 106 <b>Pt</b><br>platinum<br>78   | 107 <b>Tl</b><br>thallium<br>81      | 108 <b>At</b><br>astatine<br>85   |
| 105 <b>Os</b><br>osmium<br>76     | 106 <b>Ru</b><br>ruthenium<br>44 | 107 <b>Pd</b><br>palladium<br>46   | 108 <b>Ir</b><br>iridium<br>77          | 109 <b>Pt</b><br>platinum<br>78   | 110 <b>Tl</b><br>thallium<br>81      | 111 <b>At</b><br>astatine<br>85   |
| 106 <b>Se</b><br>selenium<br>34   | 107 <b>Ge</b><br>germanium<br>32 | 108 <b>Sn</b><br>tin<br>50         | 109 <b>Hg</b><br>mercury<br>80          | 110 <b>Pb</b><br>lead<br>82       | 111 <b>At</b><br>astatine<br>85      | 112 <b>At</b><br>astatine<br>85   |
| 108 <b>Se</b><br>selenium<br>34   | 109 <b>Ge</b><br>germanium<br>32 | 110 <b>Sn</b><br>tin<br>50         | 111 <b>Hg</b><br>mercury<br>80          | 112 <b>Pb</b><br>lead<br>82       | 113 <b>At</b><br>astatine<br>85      | 114 <b>At</b><br>astatine<br>85   |
| 112 <b>Te</b><br>tellurium<br>52  | 113 <b>Te</b><br>tellurium<br>52 | 114 <b>Te</b><br>tellurium<br>52   | 115 <b>Te</b><br>tellurium<br>52        | 116 <b>Te</b><br>tellurium<br>52  | 117 <b>Te</b><br>tellurium<br>52     | 118 <b>Te</b><br>tellurium<br>52  |

\* The Lanthanides (atomic numbers 58 – 71) and the Actinides (atomic numbers 90 – 103) have been omitted.

Relative atomic masses for **Cu** and **Cl** have not been rounded to the nearest whole number.