

# PERIODIC TABLE

## A LEVEL

|                      |
|----------------------|
| <b>Key</b>           |
| atomic number        |
| <b>Symbol</b>        |
| name                 |
| relative atomic mass |

|                                |                               |                              |                               |                               |                                |                               |                                |                              |                                |                             |                                |                               |                               |                               |                                |                              |                             |
|--------------------------------|-------------------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|------------------------------|--------------------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|------------------------------|-----------------------------|
| 1<br>1<br>H<br>hydrogen<br>1.0 |                               |                              |                               |                               |                                |                               |                                |                              |                                |                             | 18<br>2<br>He<br>helium<br>4.0 |                               |                               |                               |                                |                              |                             |
| 3<br>Li<br>lithium<br>6.9      | 4<br>Be<br>beryllium<br>9.0   |                              |                               |                               |                                |                               |                                |                              |                                |                             |                                | 5<br>B<br>boron<br>10.8       | 6<br>C<br>carbon<br>12.0      | 7<br>N<br>nitrogen<br>14.0    | 8<br>O<br>oxygen<br>16.0       | 9<br>F<br>fluorine<br>19.0   | 10<br>Ne<br>neon<br>20.2    |
| 11<br>Na<br>sodium<br>23.0     | 12<br>Mg<br>magnesium<br>24.3 |                              |                               |                               |                                |                               |                                |                              |                                |                             |                                | 13<br>Al<br>aluminium<br>27.0 | 14<br>Si<br>silicon<br>28.1   | 15<br>P<br>phosphorus<br>31.0 | 16<br>S<br>sulfur<br>32.1      | 17<br>Cl<br>chlorine<br>35.5 | 18<br>Ar<br>argon<br>39.9   |
| 19<br>K<br>potassium<br>39.1   | 20<br>Ca<br>calcium<br>40.1   | 21<br>Sc<br>scandium<br>45.0 | 22<br>Ti<br>titanium<br>47.9  | 23<br>V<br>vanadium<br>50.9   | 24<br>Cr<br>chromium<br>52.0   | 25<br>Mn<br>manganese<br>54.9 | 26<br>Fe<br>iron<br>55.8       | 27<br>Co<br>cobalt<br>58.9   | 28<br>Ni<br>nickel<br>58.7     | 29<br>Cu<br>copper<br>63.5  | 30<br>Zn<br>zinc<br>65.4       | 31<br>Ga<br>gallium<br>69.7   | 32<br>Ge<br>germanium<br>72.6 | 33<br>As<br>arsenic<br>74.9   | 34<br>Se<br>selenium<br>79.0   | 35<br>Br<br>bromine<br>79.9  | 36<br>Kr<br>krypton<br>83.8 |
| 37<br>Rb<br>rubidium<br>85.5   | 38<br>Sr<br>strontium<br>87.6 | 39<br>Y<br>yttrium<br>88.9   | 40<br>Zr<br>zirconium<br>91.2 | 41<br>Nb<br>niobium<br>92.9   | 42<br>Mo<br>molybdenum<br>95.9 | 43<br>Tc<br>technetium        | 44<br>Ru<br>ruthenium<br>101.1 | 45<br>Rh<br>rhodium<br>102.9 | 46<br>Pd<br>palladium<br>106.4 | 47<br>Ag<br>silver<br>107.9 | 48<br>Cd<br>cadmium<br>112.4   | 49<br>In<br>indium<br>114.8   | 50<br>Sn<br>tin<br>118.7      | 51<br>Sb<br>antimony<br>121.8 | 52<br>Te<br>tellurium<br>127.6 | 53<br>I<br>iodine<br>126.9   | 54<br>Xe<br>xenon<br>131.3  |
| 55<br>Cs<br>caesium<br>132.9   | 56<br>Ba<br>barium<br>137.3   | 57-71<br>lanthanoids         | 72<br>Hf<br>hafnium<br>178.5  | 73<br>Ta<br>tantalum<br>180.9 | 74<br>W<br>tungsten<br>183.8   | 75<br>Re<br>rhenium<br>186.2  | 76<br>Os<br>osmium<br>190.2    | 77<br>Ir<br>iridium<br>192.2 | 78<br>Pt<br>platinum<br>195.1  | 79<br>Au<br>gold<br>197.0   | 80<br>Hg<br>mercury<br>200.6   | 81<br>Tl<br>thallium<br>204.4 | 82<br>Pb<br>lead<br>207.2     | 83<br>Bi<br>bismuth<br>209.0  | 84<br>Po<br>polonium           | 85<br>At<br>astatine         | 86<br>Rn<br>radon           |
| 87<br>Fr<br>francium           | 88<br>Ra<br>radium            | 89-103<br>actinoids          | 104<br>Rf<br>rutherfordium    | 105<br>Db<br>dubnium          | 106<br>Sg<br>seaborgium        | 107<br>Bh<br>bohrium          | 108<br>Hs<br>hassium           | 109<br>Mt<br>meitnerium      | 110<br>Ds<br>darmstadtium      | 111<br>Rg<br>roentgenium    | 112<br>Cn<br>copernicium       |                               | 114<br>Fl<br>flerovium        |                               | 116<br>Lv<br>livermorium       |                              |                             |

|                                |                              |                                   |                                |                                 |                               |                               |                                 |                              |                                 |                              |                             |                              |                                |                               |
|--------------------------------|------------------------------|-----------------------------------|--------------------------------|---------------------------------|-------------------------------|-------------------------------|---------------------------------|------------------------------|---------------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-------------------------------|
| 57<br>La<br>lanthanum<br>138.9 | 58<br>Ce<br>cerium<br>140.1  | 59<br>Pr<br>praseodymium<br>140.9 | 60<br>Nd<br>neodymium<br>144.2 | 61<br>Pm<br>promethium<br>144.9 | 62<br>Sm<br>samarium<br>150.4 | 63<br>Eu<br>europium<br>152.0 | 64<br>Gd<br>gadolinium<br>157.2 | 65<br>Tb<br>terbium<br>158.9 | 66<br>Dy<br>dysprosium<br>162.5 | 67<br>Ho<br>holmium<br>164.9 | 68<br>Er<br>erbium<br>167.3 | 69<br>Tm<br>thulium<br>168.9 | 70<br>Yb<br>ytterbium<br>173.0 | 71<br>Lu<br>lutetium<br>175.0 |
| 89<br>Ac<br>actinium           | 90<br>Th<br>thorium<br>232.0 | 91<br>Pa<br>protactinium          | 92<br>U<br>uranium<br>238.1    | 93<br>Np<br>neptunium           | 94<br>Pu<br>plutonium         | 95<br>Am<br>americium         | 96<br>Cm<br>curium              | 97<br>Bk<br>berkelium        | 98<br>Cf<br>californium         | 99<br>Es<br>einsteinium      | 100<br>Fm<br>fermium        | 101<br>Md<br>mendelevium     | 102<br>No<br>nobelium          | 103<br>Lr<br>lawrencium       |