



**GCSE**

**CHEMISTRY**

**The Periodic Table of Elements**

**Insert**

**Insert for:**

**GCSE Chemistry (8462)**

**GCSE Combined Science: Trilogy (8464)**

**GCSE Combined Science: Synergy (8465)**

**[Turn over]**

# The Periodic Table of the Elements

1

2

## Key

relative atomic mass  
atomic symbol  
atomic (proton) number

1  
H  
1

|                   |                   |                     |                    |                    |                    |                    |                    |                    |
|-------------------|-------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 7<br>Li<br>3      | 9<br>Be<br>4      |                     |                    |                    |                    |                    |                    |                    |
| 23<br>Na<br>11    | 24<br>Mg<br>12    |                     |                    |                    |                    |                    |                    |                    |
| 39<br>K<br>19     | 40<br>Ca<br>20    | 45<br>Sc<br>21      | 48<br>Ti<br>22     | 51<br>V<br>23      | 52<br>Cr<br>24     | 55<br>Mn<br>25     | 56<br>Fe<br>26     | 59<br>Co<br>27     |
| 85<br>Rb<br>37    | 88<br>Sr<br>38    | 89<br>Y<br>39       | 91<br>Zr<br>40     | 93<br>Nb<br>41     | 96<br>Mo<br>42     | [97]<br>Tc<br>43   | 101<br>Ru<br>44    | 103<br>Rh<br>45    |
| 133<br>Cs<br>55   | 137<br>Ba<br>56   | 139<br>La *<br>57   | 178<br>Hf<br>72    | 181<br>Ta<br>73    | 184<br>W<br>74     | 186<br>Re<br>75    | 190<br>Os<br>76    | 192<br>Ir<br>77    |
| [223]<br>Fr<br>87 | [226]<br>Ra<br>88 | [227]<br>Ac *<br>89 | [267]<br>Rf<br>104 | [270]<br>Db<br>105 | [269]<br>Sg<br>106 | [270]<br>Bh<br>107 | [270]<br>Hs<br>108 | [278]<br>Mt<br>109 |

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

|                    |                    |                    |                    |                    |                    |                    |                    |                    |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                    |                    |                    |                    |                    |                    |                    |                    | 4<br>He<br>2       |
|                    |                    |                    | 11<br>B<br>5       | 12<br>C<br>6       | 14<br>N<br>7       | 16<br>O<br>8       | 19<br>F<br>9       | 20<br>Ne<br>10     |
|                    |                    |                    | 27<br>Al<br>13     | 28<br>Si<br>14     | 31<br>P<br>15      | 32<br>S<br>16      | 35.5<br>Cl<br>17   | 40<br>Ar<br>18     |
| 59<br>Ni<br>28     | 63.5<br>Cu<br>29   | 65<br>Zn<br>30     | 70<br>Ga<br>31     | 73<br>Ge<br>32     | 75<br>As<br>33     | 79<br>Se<br>34     | 80<br>Br<br>35     | 84<br>Kr<br>36     |
| 106<br>Pd<br>46    | 108<br>Ag<br>47    | 112<br>Cd<br>48    | 115<br>In<br>49    | 119<br>Sn<br>50    | 122<br>Sb<br>51    | 128<br>Te<br>52    | 127<br>I<br>53     | 131<br>Xe<br>54    |
| 195<br>Pt<br>78    | 197<br>Au<br>79    | 201<br>Hg<br>80    | 204<br>Tl<br>81    | 207<br>Pb<br>82    | 209<br>Bi<br>83    | [209]<br>Po<br>84  | [210]<br>At<br>85  | [222]<br>Rn<br>86  |
| [281]<br>Ds<br>110 | [281]<br>Rg<br>111 | [285]<br>Cn<br>112 | [286]<br>Nh<br>113 | [289]<br>Fl<br>114 | [289]<br>Mc<br>115 | [293]<br>Lv<br>116 | [293]<br>Ts<br>117 | [294]<br>Og<br>118 |

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

[Turn over for KEY showing list of elements]

|    |    |            |    |    |            |
|----|----|------------|----|----|------------|
| 1  | H  | Hydrogen   | 31 | Ga | Gallium    |
| 2  | He | Helium     | 32 | Ge | Germanium  |
| 3  | Li | Lithium    | 33 | As | Arsenic    |
| 4  | Be | Beryllium  | 34 | Se | Selenium   |
| 5  | B  | Boron      | 35 | Br | Bromine    |
| 6  | C  | Carbon     | 36 | Kr | Krypton    |
| 7  | N  | Nitrogen   | 37 | Rb | Rubidium   |
| 8  | O  | Oxygen     | 38 | Sr | Strontium  |
| 9  | F  | Fluorine   | 39 | Y  | Yttrium    |
| 10 | Ne | Neon       | 40 | Zr | Zirconium  |
| 11 | Na | Sodium     | 41 | Nb | Niobium    |
| 12 | Mg | Magnesium  | 42 | Mo | Molybdenum |
| 13 | Al | Aluminium  | 43 | Tc | Technetium |
| 14 | Si | Silicon    | 44 | Ru | Ruthenium  |
| 15 | P  | Phosphorus | 45 | Rh | Rhodium    |
| 16 | S  | Sulfur     | 46 | Pd | Palladium  |
| 17 | Cl | Chlorine   | 47 | Ag | Silver     |
| 18 | Ar | Argon      | 48 | Cd | Cadmium    |
| 19 | K  | Potassium  | 49 | In | Indium     |
| 20 | Ca | Calcium    | 50 | Sn | Tin        |
| 21 | Sc | Scandium   | 51 | Sb | Antimony   |
| 22 | Ti | Titanium   | 52 | Te | Tellurium  |
| 23 | V  | Vanadium   | 53 | I  | Iodine     |
| 24 | Cr | Chromium   | 54 | Xe | Xenon      |
| 25 | Mn | Manganese  | 55 | Cs | Caesium    |
| 26 | Fe | Iron       | 56 | Ba | Barium     |
| 27 | Co | Cobalt     | 57 | La | Lanthanum  |
| 28 | Ni | Nickel     | 72 | Hf | Hafnium    |
| 29 | Cu | Copper     | 73 | Ta | Tantalum   |
| 30 | Zn | Zinc       | 74 | W  | Tungsten   |

|     |    |               |
|-----|----|---------------|
| 75  | Re | Rhenium       |
| 76  | Os | Osmium        |
| 77  | Ir | Iridium       |
| 78  | Pt | Platinum      |
| 79  | Au | Gold          |
| 80  | Hg | Mercury       |
| 81  | Tl | Thallium      |
| 82  | Pb | Lead          |
| 83  | Bi | Bismuth       |
| 84  | Po | Polonium      |
| 85  | At | Astatine      |
| 86  | Rn | Radon         |
| 87  | Fr | Francium      |
| 88  | Ra | Radium        |
| 89  | Ac | Actinium      |
| 104 | Rf | Rutherfordium |
| 105 | Db | Dubnium       |
| 106 | Sg | Seaborgium    |
| 107 | Bh | Bohrium       |
| 108 | Hs | Hassium       |
| 109 | Mt | Meitnerium    |
| 110 | Ds | Darmstadtium  |
| 111 | Rg | Roentgenium   |
| 112 | Cn | Copernicium   |
| 113 | Nh | Nihonium      |
| 114 | Fl | Flerovium     |
| 115 | Mc | Moscovium     |
| 116 | Lv | Livermorium   |
| 117 | Ts | Tennessine    |
| 118 | Og | Oganesson     |

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