

**Modified Enlarged 18pt**

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS**

**June 2025**

**GCSE (9–1) Combined Science Chemistry B  
(Twenty First Century Science)**

**J260 02/06**

**Data Sheet**

## **INSTRUCTIONS**

**Do NOT send this Data Sheet for marking. Keep it in the  
centre or recycle it.**



# The Periodic Table of the Elements

| (1)                  | (2) | Key           |       |    |    |           |       |        |    |             |      | (3) | (4) | (5)           | (6)   | (7)    | (0) |          |       |          |      |            |       |       |      |            |       |     |    |           |       |     |    |            |       |     |    |              |       |     |    |             |       |     |    |             |       |    |    |          |       |     |    |           |       |    |    |          |       |     |    |             |       |    |    |          |       |    |    |         |       |
|----------------------|-----|---------------|-------|----|----|-----------|-------|--------|----|-------------|------|-----|-----|---------------|-------|--------|-----|----------|-------|----------|------|------------|-------|-------|------|------------|-------|-----|----|-----------|-------|-----|----|------------|-------|-----|----|--------------|-------|-----|----|-------------|-------|-----|----|-------------|-------|----|----|----------|-------|-----|----|-----------|-------|----|----|----------|-------|-----|----|-------------|-------|----|----|----------|-------|----|----|---------|-------|
| 1                    |     | atomic number |       |    |    |           |       |        |    |             |      | 18  |     |               |       |        |     |          |       |          |      |            |       |       |      |            |       |     |    |           |       |     |    |            |       |     |    |              |       |     |    |             |       |     |    |             |       |    |    |          |       |     |    |           |       |    |    |          |       |     |    |             |       |    |    |          |       |    |    |         |       |
| Symbol               |     | name          |       |    |    |           |       |        |    |             |      |     |     |               |       |        |     |          |       |          |      |            |       |       |      |            |       |     |    |           |       |     |    |            |       |     |    |              |       |     |    |             |       |     |    |             |       |    |    |          |       |     |    |           |       |    |    |          |       |     |    |             |       |    |    |          |       |    |    |         |       |
| relative atomic mass |     |               |       |    |    |           |       |        |    |             |      |     |     |               |       |        |     |          |       |          |      |            |       |       |      |            |       |     |    |           |       |     |    |            |       |     |    |              |       |     |    |             |       |     |    |             |       |    |    |          |       |     |    |           |       |    |    |          |       |     |    |             |       |    |    |          |       |    |    |         |       |
| 1                    | H   | hydrogen      | 1.0   |    |    |           |       |        |    |             |      |     |     | 2             | He    | helium | 4.0 |          |       |          |      |            |       |       |      |            |       |     |    |           |       |     |    |            |       |     |    |              |       |     |    |             |       |     |    |             |       |    |    |          |       |     |    |           |       |    |    |          |       |     |    |             |       |    |    |          |       |    |    |         |       |
| 3                    | Li  | lithium       | 6.9   | 4  | Be | beryllium | 9.0   |        |    |             |      |     |     |               |       |        |     | 9        | F     | fluorine | 19.0 | 10         | Ne    | neon  | 20.2 |            |       |     |    |           |       |     |    |            |       |     |    |              |       |     |    |             |       |     |    |             |       |    |    |          |       |     |    |           |       |    |    |          |       |     |    |             |       |    |    |          |       |    |    |         |       |
| 11                   | Na  | sodium        | 23.0  | 12 | Mg | magnesium | 24.3  |        |    |             |      |     |     |               |       |        |     | 17       | Cl    | chlorine | 35.5 | 18         | Ar    | argon | 39.9 |            |       |     |    |           |       |     |    |            |       |     |    |              |       |     |    |             |       |     |    |             |       |    |    |          |       |     |    |           |       |    |    |          |       |     |    |             |       |    |    |          |       |    |    |         |       |
| 19                   | K   | potassium     | 39.1  | 20 | Ca | calcium   | 40.1  | 21     | Sc | scandium    | 45.0 | 22  | Ti  | titanium      | 47.9  | 23     | V   | vanadium | 50.9  | 24       | Cr   | chromium   | 52.0  | 25    | Mn   | manganese  | 54.9  | 26  | Fe | iron      | 55.8  | 27  | Co | cobalt     | 58.9  | 28  | Ni | nickel       | 58.7  | 29  | Cu | copper      | 63.5  | 30  | Zn | zinc        | 65.4  | 31 | Ga | gallium  | 69.7  | 32  | Ge | germanium | 72.6  | 33 | As | arsenic  | 74.9  | 34  | Se | selenium    | 79.0  | 35 | Br | bromine  | 79.9  | 36 | Kr | krypton | 83.8  |
| 37                   | Rb  | rubidium      | 85.5  | 38 | Sr | strontium | 87.6  | 39     | Y  | yttrium     | 88.9 | 40  | Zr  | zirconium     | 91.2  | 41     | Nb  | niobium  | 92.9  | 42       | Mo   | molybdenum | 95.9  | 43    | Tc   | technetium |       | 44  | Ru | ruthenium | 101.1 | 45  | Rh | rhodium    | 102.9 | 46  | Pd | palladium    | 106.4 | 47  | Ag | silver      | 107.9 | 48  | Cd | cadmium     | 112.4 | 49 | In | indium   | 114.8 | 50  | Sn | tin       | 118.7 | 51 | Sb | antimony | 121.8 | 52  | Te | tellurium   | 127.6 | 53 | I  | iodine   | 126.9 | 54 | Xe | xenon   | 131.3 |
| 55                   | Cs  | caesium       | 132.9 | 56 | Ba | barium    | 137.3 | 57–71  |    | lanthanoids |      | 72  | Hf  | hafnium       | 178.5 | 73     | Ta  | tantalum | 180.9 | 74       | W    | tungsten   | 183.8 | 75    | Re   | rhenium    | 186.2 | 76  | Os | osmium    | 190.2 | 77  | Ir | iridium    | 192.2 | 78  | Pt | platinum     | 195.1 | 79  | Au | gold        | 197.0 | 80  | Hg | mercury     | 200.6 | 81 | Tl | thallium | 204.4 | 82  | Pb | lead      | 207.2 | 83 | Bi | bismuth  | 209.0 | 84  | Po | polonium    |       | 85 | At | astatine |       | 86 | Rn | radon   |       |
| 87                   | Fr  | francium      |       | 88 | Ra | radium    |       | 89–103 |    | actinoids   |      | 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 |       |    |    |          |       | 114 | Fl | flerovium |       |    |    |          |       | 116 | Lv | livermorium |       |    |    |          |       |    |    |         |       |

ELEMENTS LISTED IN ATOMIC NUMBER ORDER:

| ATOMIC<br>NUMBER | NAME       | SYMBOL | RELATIVE<br>ATOMIC MASS |
|------------------|------------|--------|-------------------------|
| 1                | Hydrogen   | H      | 1.0                     |
| 2                | Helium     | He     | 4.0                     |
| 3                | Lithium    | Li     | 6.9                     |
| 4                | Beryllium  | Be     | 9.0                     |
| 5                | Boron      | B      | 10.8                    |
| 6                | Carbon     | C      | 12.0                    |
| 7                | Nitrogen   | N      | 14.0                    |
| 8                | Oxygen     | O      | 16.0                    |
| 9                | Fluorine   | F      | 19.0                    |
| 10               | Neon       | Ne     | 20.2                    |
| 11               | Sodium     | Na     | 23.0                    |
| 12               | Magnesium  | Mg     | 24.3                    |
| 13               | Aluminium  | Al     | 27.0                    |
| 14               | Silicon    | Si     | 28.1                    |
| 15               | Phosphorus | P      | 31.0                    |
| 16               | Sulfur     | S      | 32.1                    |
| 17               | Chlorine   | Cl     | 35.5                    |
| 18               | Argon      | Ar     | 39.9                    |
| 19               | Potassium  | K      | 39.1                    |
| 20               | Calcium    | Ca     | 40.1                    |
| 21               | Scandium   | Sc     | 45.0                    |
| 22               | Titanium   | Ti     | 47.9                    |
| 23               | Vanadium   | V      | 50.9                    |
| 24               | Chromium   | Cr     | 52.0                    |
| 25               | Manganese  | Mn     | 54.9                    |
| 26               | Iron       | Fe     | 55.8                    |
| 27               | Cobalt     | Co     | 58.9                    |
| 28               | Nickel     | Ni     | 58.7                    |
| 29               | Copper     | Cu     | 63.5                    |
| 30               | Zinc       | Zn     | 65.4                    |
| 31               | Gallium    | Ga     | 69.7                    |
| 32               | Germanium  | Ge     | 72.6                    |
| 33               | Arsenic    | As     | 74.9                    |
| 34               | Selenium   | Se     | 79.0                    |
| 35               | Bromine    | Br     | 79.9                    |
| 36               | Krypton    | Kr     | 83.8                    |
| 37               | Rubidium   | Rb     | 85.5                    |
| 38               | Strontium  | Sr     | 87.6                    |
| 39               | Yttrium    | Y      | 88.9                    |
| 40               | Zirconium  | Zr     | 91.2                    |
| 41               | Niobium    | Nb     | 92.9                    |
| 42               | Molybdenum | Mo     | 95.9                    |

| ATOMIC<br>NUMBER | NAME          | SYMBOL | RELATIVE<br>ATOMIC MASS |
|------------------|---------------|--------|-------------------------|
| 43               | Technetium    | Tc     |                         |
| 44               | Ruthenium     | Ru     | 101.1                   |
| 45               | Rhodium       | Rh     | 102.9                   |
| 46               | Palladium     | Pd     | 106.4                   |
| 47               | Silver        | Ag     | 107.9                   |
| 48               | Cadmium       | Cd     | 112.4                   |
| 49               | Indium        | In     | 114.8                   |
| 50               | Tin           | Sn     | 118.7                   |
| 51               | Antimony      | Sb     | 121.8                   |
| 52               | Tellurium     | Te     | 127.6                   |
| 53               | Iodine        | I      | 126.9                   |
| 54               | Xenon         | Xe     | 131.3                   |
| 55               | Caesium       | Cs     | 132.9                   |
| 56               | Barium        | Ba     | 137.3                   |
| 72               | Hafnium       | Hf     | 178.5                   |
| 73               | Tantalum      | Ta     | 180.9                   |
| 74               | Tungsten      | W      | 183.8                   |
| 75               | Rhenium       | Re     | 186.2                   |
| 76               | Osmium        | Os     | 190.2                   |
| 77               | Iridium       | Ir     | 192.2                   |
| 78               | Platinum      | Pt     | 195.1                   |
| 79               | Gold          | Au     | 197.0                   |
| 80               | Mercury       | Hg     | 200.6                   |
| 81               | Thallium      | Tl     | 204.4                   |
| 82               | Lead          | Pb     | 207.2                   |
| 83               | Bismuth       | Bi     | 209.0                   |
| 84               | Polonium      | Po     |                         |
| 85               | Astatine      | At     |                         |
| 86               | Radon         | Rn     |                         |
| 87               | Francium      | Fr     |                         |
| 88               | Radium        | Ra     |                         |
| 104              | Rutherfordium | Rf     |                         |
| 105              | Dubnium       | Db     |                         |
| 106              | Seaborgium    | Sg     |                         |
| 107              | Bohrium       | Bh     |                         |
| 108              | Hassium       | Hs     |                         |
| 109              | Meitnerium    | Mt     |                         |
| 110              | Darmstadtium  | Ds     |                         |
| 111              | Roentgenium   | Rg     |                         |
| 112              | Copernicium   | Cn     |                         |
| 114              | Flerovium     | Fl     |                         |
| 116              | Livermorium   | Lv     |                         |

**BLANK PAGE**

**Copyright Information**

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website ([www.ocr.org.uk](http://www.ocr.org.uk)) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact The OCR Copyright Team, The Triangle Building, Shaftesbury Road, Cambridge CB2 8EA.

OCR is part of Cambridge University Press & Assessment, which is itself a department of the University of Cambridge.