

Long Term Plan: Year 9 Science

| Date           | w.c<br>04.09.23       | w.c<br>11.09.23   | w.c<br>18.09.23  | w.c<br>25.09.23   | w.c<br>02.10.23   | w.c<br>09.10.23   | w.c<br>30.10.23  | w.c<br>06.11.23                                 | w.c<br>13.11.23   | w.c<br>20.11.23   | w.c<br>27.11.23      | w.c<br>04.12.23  | w.c<br>11.12.23  | w.c<br>18.12.23   |
|----------------|-----------------------|---|--|---|---|---|--|---|---|---|----------------------|--|--|---|
| Topic          |                       | B7 Bodies   | B7 Bodies  | B7 Bodies   | B7 Bodies   | C7 Reactions  | C7 Reactions   | C7 Reactions                                    | C7 Reactions  | P7/ Revision  | DCP1                 | P7 Space   | P7 Space   | P7 Space  |
| Bespoke Recall |                       | changes of state  | reliable vs reproducible   | equipment and what it measures                                      | control variables   | food groups and pregnancy   | cooling curves   | observations                                    | reflection  | refraction  | graph-reading values | graph describing trends  | accuracy vs precision  | conduction and convection                                       |
| Lessons        | Introduction lesson   | Healthy living, cancer, heart, heart dissection, Skills: JO, P, EC and EM | blood and circulation brain, academic text, Skills: JO, P, EC and EM | reflexes, endocrine, menstrual cycle, IVF, Skills: JO, P, EC and EM | contraception and STDs, end of unit WCF, Skills: JO, P, EC and EM | periodic table, Atomic structure elements, mixtures and compounds, properties, Skills: L, R and F | Chemical reactions and compounds, formulae, conservation of mass | making salts, academic text, Skills: L, R and F | making salts and flame tests, End of unit WCF, Skills: L, R and F | Revision, day and night, solar system, Skills: C, SF, F, EC, O, EX, S | Y9 DCP1              | dark energy, satellites, Universe, stars, Skills: C, SF, F, EC, O, EX, S | Big bang theory, doppler effect, academic text, Skills: C, SF, F, EC, O, EX, S | Space careers, End of unit, WCF, Skills: C, SF, F, EC, O, EX, S |
| FB             | respiration           | food groups and tests   | periodic table   | reflection  | current and voltage   | interpreting data from tables   | separating mixtures  | improving methods                               | Hypothesis and variables  | refraction  | static               | cooling curves and changes of state                                      | Graphs   | Writing conclusions from graphs                                 |
| HW             | B5                    | C5  | C5   | C5  | C5  | C5  | P5   | P5  | P5  | P5  | P5                   | P5   | P5   | P5  |
| Date           | w.c<br>01.01.24       | w.c<br>08.01.24   | w.c<br>15.01.24  | w.c<br>23.01.24   | w.c<br>29.01.24   | w.c<br>05.02.24   | w.c<br>19.02.24  | w.c<br>26.02.24                                 | w.c<br>04.03.24   | w.c<br>11.03.24   | w.c<br>18.03.24      | w.c<br>25.03.24  |  |   |
| Topic          | Fundamentals          | Fundamentals  | Fundamentals   | B1  | B1  | B1  | B1   | Revision  | Carlton Edge  | Science week  | DCP2                 | C9   |  |   |
| Bespoke Recall |                       |   |  |   |   |   |  |   |   |   |                      |  |  |   |
| Lessons        | cells, forces, energy | particles, interdependence  | Electricity  | Plant and animal cells, eukaryotes and prokaryotes                  | cell differentiation, chromosomes                                 | mitosis, diffusion, osmosis, active transport   | osmosis, required practical, End of unit, WCF                    | Recap of elements, mixtures and compounds       | Thackray medical trip, lessons, past medical                      | Science week, theme time  | Y9 DCP2              | Earth's atmosphere, early atmosphere,                                    |  |   |

|                   |   |   |  |   |   |  |   |   |   |                          |                       |   |   |   |
|-------------------|---|---|--|---|---|--|---|---|---|--------------------------|-----------------------|---|---|---|
|                   |   |   |  | microscopy<br>observing<br>cells<br><br><i>Skills: SF,<br/>RE, EX, F</i>                    | Academic<br>text<br><br><i>Skills: SF,<br/>RE, EX, F</i>  | <i>Skills: SF,<br/>RE, EX, F</i>   | <i>Skills: SF,<br/>RE, EX, F</i>  | recap of<br>periodic<br>table<br><i>Skills: C, P,<br/>PR, O</i>                         | breakthroughs and<br>future<br>innovations                                      |                          |                       | photosynthesis<br><br><i>Skills: C, P,<br/>PR, O</i>                          |   |   |
| FB                |   | recycling   |  | Graphs  |   | Hooke's<br>law   |   | transport<br>in cells   |   | work<br>done             |                       | cell<br>differenti<br>ation   |   |   |
| HW                | B6  | B6  | B6   | B6  | B6  | B6   | C6  | C6  | C6  | C6                       | C6                    | C6  |   |   |
| Date              | w.c<br>15.04.2<br>4   | w.c<br>22.04.24   | w.c<br>29.04.24  | w.c<br>06.05.24   | w.c<br>13.05.24   | w.c<br>20.05.24  | w.c<br>03.06.24   | w.c<br>10.06.24   | w.c<br>17.06.24   | w.c<br>24.06.24          | w.c.<br>01.07.24      | w.c<br>08.07.24   | w.c<br>15.07.24   | w.c<br>22.07.24   |
| Topic             | C9  | C9/C10  | C10  | C10   | C10   | C10  | C10   | P1  | P1  | Revision                 | DCP3                  | P1  | P1  | P1  |
| Bespoke<br>Recall |   |   |  |   |   |  |   |   |   |                          |                       |   |   |   |
| Lessons           | Greenho<br>use<br>gases,<br>carbon<br>footprint<br><br><i>Skills: C,<br/>P, PR, O</i> | air<br>pollution,<br>summary,<br>academic<br>text<br><i>Skills: C, P,<br/>PR, O</i> | end of unit<br>and WCF<br>resources,<br>reuse and<br>recycle<br><i>Skills: C, P,<br/>PR, O</i> | LCAs,<br>potable<br>water,<br>waste<br>water<br>treatment<br><i>Skills: C, P,<br/>PR, O</i> | Water RP,<br>bioleaching<br>corrosion,<br>ceramic,<br>polymers<br>and<br>composites<br><i>Skills: C, P,<br/>PR, O</i> | Alloys,<br>Haber<br>process,<br>Academic<br>text<br><i>Skills: C, P,<br/>PR, O</i> | End of<br>unit and<br>WCF<br>Energy<br>stores and<br>transfers<br><i>Skills:G,<br/>CG, RE, DT</i> | efficiency,<br>conservati<br>on,<br>academic<br>text<br><i>Skills:G,<br/>CG, RE, DT</i> | Kinetic<br>energy,<br>GPE and<br>elastic<br><br><i>Skills:G,<br/>CG, RE, DT</i> | Revise<br>GCSE<br>topics | Y9 DCP3               | work,<br>power,<br>energy<br>equations<br><br><i>Skills:G,<br/>CG, RE, DT</i> | Specific<br>heat<br>capacity<br>inc<br>required<br>practical<br><br><i>Skills:G,<br/>CG, RE, DT</i> | Energy<br>resources.<br>End of unit<br>and WCF<br><i>Skills:G,<br/>CG, RE, DT</i> |
| FB                | diffusio<br>n and<br>osmosis  |   | command<br>words   |   | standard<br>form  |  | SI units  |   | gradients   |                          | equations<br>(energy) |   | Data<br>analysis  |   |
| HW                | B1 GCSE   | B1 GCSE   | B1 GCSE  | B1 GCSE   | B1 GCSE   | B1 GCSE  | C9 GCSE   | C9 GCSE   | C9 GCSE   | C9 GCSE                  | C9 GCSE               | C9 GCSE   | C9 GCSE   | C9 GCSE   |

See assessment Calendar for details of Formative and Summative DCP Assessments

Details of the academic texts can be found in the centralised planning.

FB is our Flashback lessons. These form part (or all) of the last lesson of the week.

Bespoke Flashback and bespoke recalls are decided from formative assessments and DCP data. Other recall topics are built into lessons on the centralised planning.

See Skills code sheet to understand the skill letters.

SMSC/personal development opportunities see medium plan for more details

See documents on [science week and careers week](#).