Year 8 SOL 2022

Autumn

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| Fortnight | Biology | Chemistry | Physics |
| 1 – 06/09/21 | L1 – What is a nutrient? | L1 – Atomic structure | *Physics practical program – 4 lessons* |
| L2 – Energy in food | L2 – The periodic table |
| L3 – What is an unhealthy diet? | L3 – The development of the periodic table |
| 2 – 20/9/21 | L4 – What are the effects of a poor diet DART | L4 – Physical and chemical reactions |
| L5 – Digestive system | Progress assessment | L1 – Energy recap |
| L6 – What is an enzyme | Progress assessment DIRT | L2 – Energy resources 1 |
| 3 – 04/10/21 | L7 – Digestive bacteria | L5 – Metals and non-metals | L3 – Energy resources 2 |
| L8 – Probiotic substances | L6 – Electronic structure | L4 – Energy DART |
| Progress assessment | L7 – Group 1 | L5 – Wind turbine project part 1 |
| 4 – 18/10/21 | Progress assessment DIRT | L8 – Group 7 | L6 – Wind turbine project part 2 |
| L9 – Food test | L9 – Displacement reactions part 1 | L7 – Wind turbine project part 3 |
| HALF TERM | | | |
| 5 – 01/11/21 | L10 – Food test practical part 1 | L10 – Displacement reactions part 2 | L8 – Pie chart PS part 1 |
| L11 – Food test practical part 2 | L10 – Group 0 | L8 – Pie chart PS part 2 |
| L12 – What is a drug | EOU assessment | Progress assessment |
| 6 – 15/11/21 | L13 – Effects of alcohol and tobacco PS part 1 | EOU DIRT | Progress assessment DIRT |
| L14 - Effects of alcohol and tobacco PS part 2 | EOU DIRT | L9 - Power |
| EOU assessment | L1 – Hazards | L10 – Rearranging the power equation |
| 7 – 29/11/21 | EOU DIRT | *Chemistry practical program – 4 lessons* | L11 – Kettle practical 1 |
| EOU DIRT | L12 – Kettle practical 2 |
| L1 – Photosynthesis | EOU assessment |
| 8 – 13/12/21 | L2 – Structure of a leaf | EOU DIRT |
| L3 – Plant minerals | L2 – Acids and alkalis | EOU DIRT |

Spring

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| Fortnight | Biology | Chemistry | Physics |
| 1 – 03/01/22 | L4 – Use of glucose | L3 – pH and indicators | L1 – Static electricity |
| L5 – Aerobic respiration | L4 – Neutralisation | L2 – Generating electricity (non-renewable) |
| L6 – Anaerobic respiration | L5 – Making copper sulfate part 1 | L3 – Generating electricity (renewable) |
| 2 – 17/01/22 | L7 – Catalase practical | L6 – Making copper sulfate part 2 | L4 – Energy DART |
| L8 – Atmospheric CO2 levels DART | L7 – Making salt PS part 1 | L5 – The National Grid |
| Progress assessment | L8 – Making salt PS part 2 | Progress assessment |
| 3 – 31/01/22 | Progress assessment DIRT | L9 – Metals and acids | Progress assessment DIRT |
| L9 - Chemosynthesis | L10 – Metals and water | L6 - Resistance |
| L10 – Chemosynthesis vs photosynthesis PS part 1 | L11 – Metals and oxygen | L7 – Resistance investigation |
| 4 – 14/02/22 | L11 – Chemosynthesis vs photosynthesis PS part 2 | L12 – Metal displacement reactions | L8 – Resistance results and analysis |
| HALF TERM | | | |
| 5 – 28/02/22 | L12 – Circulatory system | Progress assessment | L9 – Resistance and temperature PS part 1 |
| L13 – Respiratory system part 1 | Progress assessment DIRT | L10 – Resistance and temperature PS part 2 |
| L14 – Respiratory system part 2 | L13 – Extracting metals | L11 – Electrical safety |
| 6 – 14/03/22 | L15 – Effect of exercise | L14 – Collision theory | L12 – Wiring a plug |
| L16 – Lung dissection | L15 – Rates of reactions | Revision |
| L17 – Respiratory system complications | EOU assessment | EOU assessment |
| 7 – 28/03/22 | L18 – Respiratory system DART | EOU DIRT | EOU DIRT |
| Revision | EOU DIRT | EOU DIRT |
| EOU assessment | L1 – Structure of the Earth | L1 – Types of waves |
| 8 – 04/04/22 | EOU DIRT | L2 – Types of rocks part 1 | L2 – Light waves |
| EOU DIRT | L3 – Types of rocks part 2 | L3 – The eye |

Summer

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| Fortnight | Biology | Chemistry | Physics |
| 1 – 25/04/22 | L1 – Variation | L4 – Rock cycle | L4 – Colour |
| L2 – Genetic material | L5 – Combustion | L5 – Vantablack DART |
| L3 – Extracting DNA | L6 – Carbon cycle | Progress assessment |
| 2 – 09/05/22 | L4 – Development of the DNA model | Progress assessment | Progress assessment DIRT |
| L5 – DNA model problem solver part 1 | Progress assessment DIRT | L6 – Sound waves |
| L6 – DNA model problem solver part 2 | L7 – The atmosphere | L7 – Loudness and pitch |
| 3 – 23/05/22 | L7 – Genetics | L8 – Climate change PS part 1 | L8 – Sound waves |
| L8 – The differences between species | L9 – Climate change PS part 2 | L9 – The ear PS part 1 |
| HALF TERM | | | |
| 5 – 06/06/22 | L9 – Competition and adaptions | L10 – Recycling and sustainability | L10 – The ear PS part 2 |
| L10 – Natural selection | EOU assessment | EOU assessment |
| Progress assessment | EOU DIRT | EOU DIRT |
| 6 – 20/06/22 | Progress assessment DIRT | EOU DIRT | EOU DIRT |
| L11 – Charles Darwin |  |  |
| L12 – Extinction |  |  |
| 7 – 04/07/22 | L13 – Preserving biodiversity |  |  |
| EOU assessment |  |  |
| EOU DIRT |  |  |
| 8 – 18/07/22 | EOU DIRT |  |  |
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