Year 9 SOL 2022

Autumn

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| Fortnight  and date | Biology | Chemistry | Physics |
| 1 | **B5 Bioenergetics if needed.** | **C5 Chemical reactions 2 if needed.** | **P5 Electricity 2 if needed** |
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| **B5 Bioenergetics** | **C5 Chemical reactions 2 if needed.** | **P5 Electricity 2** |
| 2 | **B6 Genetics and evolution**  L1 Variation | **C6 Earth and atmosphere**  L1 Structure of the Earth | **P6 Waves 1**  L1 Types of waves |
| L2 Genetic material | L2 Types of rock | L2 Light waves |
| L3 Extraction DNA | L3 Crystallisation | L3 The eye |
| 3 | L4 Development of DNA model | L4 Rock Cycle | L4 Colour |
| L5 Problem solver | L5 Combustion. | L5 Vantablack DART |
| L6 Genetics | L6 Carbon cycle. | L6 Progress assessment |
| 4 | L7 Difference between species | L7 Progress assessment | L7 Progress assessment DIRT |
| L8 Competition and adaptation. | L8 The atmosphere. | L8 Sound Waves |
| L9 Natural selection | L9 Climate change PS | L9 Loudness and pitch |
| Half term | | | |
| 5 | L10 Progress assessment | L10 Climate change PS | L10 The Ear problem solver |
| L11 Charles Darwin | L11 Recycling and sustainability. | L11 Radiation |
| L12 Extinction | L12 Revision/ KA | L12 Revision/ KA |
| 6 | L13 Preserving Biodiversity | L13 EOU assessment | L13 EOU assessment |
| L14 Revision/ KA | L14 DIRT | L14 DIRT |
| L15 EOU assessment | L15 DIRT | L15 DIRT |
| 7 | L16 DIRT | **C7 Atoms, elements, and compounds**  L16 States of matter | **P7 Forces 2**  L16 Upthurst |
| L17 DIRT | L17 Properties of substance. | L17 Pressure on a surface |
| **B7 Cell Biology and organisation 2**  L18 Prokaryotic and Eukaryotic cells | L18 Types of chemical bonds | L18 Pressure in a liquid |
| 8 | L19 Calculating magnification | L19 Ionic bonding | L19 Pressure in space |
| L20 Specialised cells | L20 Ionic compounds | L20 Space DART |
| L21 Cell Transport | L21 Ionic compounds PS | L21 Work |
| Xmas | | | |

Spring

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| Date | Biology | Chemistry | Physics |
| 9 | L22 The circulatory system. | L22 Covalent bonding | L22 Moments |
| L23 The respiratory system. | L23 Simple covalent compounds | L23 Progress assessment |
| L24 The digestive system. | L24 Metallic bonding and alloys. | L24 Elastic objects |
| 10 | L25 Digestion and enzymes | L25 Progress assessment | L25 Hook’s law |
| L26 The nervous system | L26 Testing for gases | L26 Speed time graphs |
| L27 Reflex actions | L27 Pure substances and formulations | L27 Newton’s laws |
| 11 | L28 The endocrine system | L28 Chromatography | L28 Stopping distances |
| L29 The leaf | L29 Chromatography. | L29 Problem solver |
| L30 Gas exchange | L30 Revision/ KA | L30 Safe car design |
| Half term | | | |
| 12 | L31 Plant transport systems. | L31 Revision/ KA | L31 Revision/ KA |
| L32 Revision/ KA | L32 EOU assessment | L32 EOU assessment |
| L33 EOU assessment | L33 DIRT | L33 DIRT |
| 13 | L34 DIRT | L34 DIRT | L34 DIRT |
| L35 DIRT | **C8 Chemical changes**  L35 Chemical reactions | L35 Waves recap |
| L36 What is health | L36 Endo and exothermic reactions | L36 Standard form |
| Easter | | | |

Summer

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| --- | --- | --- | --- |
| Date | Biology | Chemistry | Physics |
| 14 | L37 What is mental health | L37 Investigating energy changes. | L37 Dangers and uses of EMS |
| L38 DART | L38 Investigating energy changes. | L38 Waves 2 DART |
| L39 Pathogens | L39 Collision theory | L39 Communication PS |
| 15 | L40 Growing bacteria | L40 Factors effecting rate of reaction. | L40 Communication PS |
| L41 Growing bacteria practical. | L41 Effect of concentration practical | L41 Progress assessment |
| L42 Bacteria problem solver | L42 Effect of surface area practical. | L42 Reflection |
| Half term | | | |
| 16 | L43 Communicable disease in animals | L43 Effect of catalysts. | L43 Refraction |
| L44 HIV DART | L44 Calculating rates of reaction. | L44 Colour |
| L45 How does the body defend. | L45 Revision/ KA | L45 Pinhole cameras |
| 17 | L46 White blood cells. | L46 EOU assessment | L46 Seasons |
| L47 Vaccinations | L47 DIRT | L47 EOU assessment |
| L48 Non communicable disease. | L48 DIRT | L48 DIRT |
| Summer | | | |