**Year 11 SOL 2022**

Autumn term

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|  | Biology | | Chemistry | | | Physics | | |
| Trilogy | Triple | Foundation | Higher | Triple  *C9 in DD day* | Foundation | Higher | Triple  *Space in DD day* |
| L1 | The nervous system and homeostasis | The nervous system and homeostasis | Calculating rates of reaction | Calculating rates of reaction and tangent curves | Calculating rates of reaction and tangent curves | Forces recap | Forces recap | Forces recap |
| L2 | Reflex actions | Reflex actions | Factors effecting rate of reaction | Factors effecting rate of reaction | Factors effecting rate of reaction | Forces recap | Resolving forces. | Vector diagrams |
| L3 | RP Reaction times | RP Reaction times | Catalysts | Catalysts | Catalysts | Speed distance and time | Speed distance and time | Newton’s second and third law. |
| L4 | The endocrine system | The brain | Measuring gas RP | Measuring gas RP | Measuring gas RP | Distance/ time graph | Distance/ time graph | Weight, mass and gravity |
| L5 | Reproduction | The eyes | Disappearing cross RP | Disappearing cross RP | Disappearing cross RP | Acceleration | Acceleration | Work done |
| L6 | Contraception and fertility treatments | Eye defects | RP Analysis | RP Analysis | RP Analysis | Velocity/ time graph | Velocity/ time graph | Multiple equations |
| L7 | End of unit assessment | The endocrine system | Reversible reactions and Equilibrium | Reversible reactions and Equilibrium | Reversible reactions and Equilibrium | Acceleration RP | Acceleration RP | Speed, distance and time |
| L8 | DIRT | Controlling body temp | EOU Assessment | Le Chateliers Principle | Le Chateliers Principle | Acceleration RP | Acceleration RP | Acceleration |
| L9 | Species and adaptations | Controlling blood sugar levels | DIRT | EOU Assessment | EOU Assessment | SUVAT | SUVAT | VT graph |
| L10 | Genetic material | The kidneys | Hydrocarbons and Alkanes | DIRT | DIRT | Stopping distances | Stopping distances | Acceleration RP |
| L11 | Genes, alleles, genotypes and phenotypes | Problems with the kidneys | Fractional Distillation | Hydrocarbons and Alkanes | Hydrocarbons and Alkanes | Spring constant | Momentum | SUVAT |
| L12 | Genetic crosses and sex inheritance | Reproduction | Cracking | Fractional Distillation | Fractional Distillation | Spring constant RP | Spring constant | Stopping distances |
| HT |  |  | | | | | | |
| L13 | Variation | Contraception and fertility treatments | EOU Assessment | Cracking | Cracking | EOU Assessment | Spring constant RP | Momentum |
| L14 | Sexual reproduction and meiosis | Plant hormones | DIRT | EOU Assessment | Alkenes (T) | EOU Assessment | EOU Assessment | Changes in momentum |
| L15 | Selective breeding | EOU assessment | Pure substances and formulations | DIRT | Reaction of Alkenes (T) | DIRT | EOU Assessment | Spring constant |
| L16 | Natural selection | DIRT | Chromatography | Pure substances and formulations | Alcohols (T) | Longitudinal and transverse waves | DIRT | Moments |
| L17 | Fossils and extinction | Species and adaptations | Chromatography RP | Chromatography | Carboxylic Acids (T) | Wave properties | Longitudinal and transverse waves | Pressure |
| L18 | Classification | Variation | Testing for gases | Chromatography RP | Addition Polymerisation (T) | Wave speed equation | Wave properties | EOU assessment |
| L19 | Genetic engineering | Alleles, genotypes and phenotypes | EOU Assessment | Testing for gases | Condensation Polymerisation (T) | Standard form | Wave speed equation | DIRT |
| L20 | Antibiotic resistance | DNA organisation | DIRT | EOU Assessment | Amino acids and DNA (T) | Wave speed RP | Standard form | Transverse and longitudinal waves |
| L21 | EOU | Mendel, Genetic crosses and Sex inheritance | Early Atmosphere | DIRT | EOU Assessment | Refraction | Wave speed RP | Wave properties and equation |
| L22 | DIRT/ reteach | Protein synthesis | Evolution of the Atmosphere | Early Atmosphere | DIRT | EM Waves | Refraction | Sound |
| L23 | DIRT/ reteach | Asexual reproduction and mutations | Greenhouse gases | Evolution of the Atmosphere | Pure substances and formulations | Use of EM waves | EM Waves | Reflection |
| X  M  A  S |  |  | | | | | | |

Spring term

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| Date | Biology | | Chemistry | | | Physics | | |
| L24 | Ecology | Selective breeding | Causes and effects of climate change | Greenhouse gases | Chromatography RP | Infrared | Use of EM waves | Refraction |
| L25 | Ecosystems | Natural selection | Carbon footprint | Causes and effects of climate change | Chromatography/ Testing for gases | EOU Assessment | Infrared | Ultrasound and seismic waves. |
| L26 | Adaptations  Surface area: volume | Evidence for evolution | Combustion | Carbon footprint | Flame tests and instrumental methods(T) | DIRT | EOU Assessment | EM waves |
| L27 | Distribution of organisms | Classification | Atmospheric pollutants | Combustion | Testing for ions (T) | Magnets | DIRT | Uses of EM waves |
| L28 | Carbon cycle | Genetic engineering | EOU Assessment | Atmospheric pollutants | Testing for ions RP (T) | Magnetic fields | Magnets | Radio and microwaves |
| L29 | Biodiversity and waste management | Antibiotic resistance | DIRT | EOU Assessment | EOU Assessment | Electromagnets | Magnetic fields | Infrared RP |
| L30 | Biodiversity and waste management | EOU | Natural resources and sustainability | DIRT | DIRT | EOU assessment | Electromagnets | Visible light |
| L31 | EOU assessment | DIRT / Reteach | Potable water | Natural resources and sustainability | Natural resources and sustainability | DIRT | Motor effect | Black body radiation |
| Half term |  |  | | | | | | |
| L32 | DIRT | Ecology | RP- Water treatment | Potable water | Potable water | Paper 2 MOCK | Fleming’s left-hand rule | Lenses |
| L33 | DIRT | Ecosystems | Waste water treatment | RP- Water treatment | RP- Water treatment | Paper 2 MOCK | Paper 2 MOCK | EOU assessment |
| L34 | Reteach | Adaptations  Surface area: volume | LCA and reducing use of resources | Waste water treatment | Waste water treatment | Paper 2 MOCK | Paper 2 MOCK | DIRT |
| L35 | Paper 2 mock | Distribution of organisms | EOU Assessment | Extracting metals | Extracting metals | Paper 2 MOCK | Paper 2 MOCK | Magnets |
| L36 | Paper 2 mock | Carbon cycle | DIRT | LCA and reducing use of resources | LCA and reducing use of resources | Paper 2 MOCK | Paper 2 MOCK | Magnetic fields |
| L37 | DIRT | Biodiversity and waste management | Paper 2 MOCK | EOU Assessment | Corrosion and Alloys | Paper 2 MOCK | Paper 2 MOCK | Electromagnets |
| L38 | Reteach | Biodiversity and waste management | Paper 2 MOCK | DIRT | Ceramics, polymers and composites | Paper 2 MOCK | Paper 2 MOCK | Motor effect |
| L38 | Reteach | EOU assessment | Paper 2 MOCK | Paper 2 MOCK | Haber Process and fertilisers | Paper 1 Energy revision | Paper 1 Energy revision. | Generator effect |
| L40 |  |  | Paper 2 MOCK | Paper 2 MOCK | EOU Assessment | Paper 1 Energy revision | Paper 1 Energy revision | AC and DC |

Summer

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| Date | Biology | | | Chemistry | | | Physics | |  |
| Trilogy | | Triple | Trilogy | Higher | Triple | Foundation | Higher | Triple |
| L41 | B1 Cell biology | | Paper 2 mock | C1 revision | C1 revision | Paper 2 MOCK | Paper 1 Electricity revision | Paper 1 Energy revision | Loudspeakers and microphones |
| L42 | B1 Cell biology | | Paper 2 mock | C1 revision | C1 revision | Paper 2 MOCK | Paper 1 Electricity revision | Paper 1 Electricity revision | Transformers |
| L43 | B1 Cell biology | | DIRT | C2 revision | C2 revision | C1 revision | Paper 1 Particle model revision | Paper 1 Electricity revision | Paper 2 MOCK |
| L44 | B2 Organisation | | Reteach | C2 revision | C3 revision | C2 revision | Paper 1 Particle model revision | Paper 1 Particle model revision | Paper 2 MOCK |
| L45 | B2 Organisation | | Reteach | C3 revision | C3 revision | C3 revision | Paper 1 Radiation revision | Paper 1 Particle model revision | Paper 1 Energy revision |
| L46 | B2 Organisation | | B1 Cell biology | C4 revision | C4 revision | C3 revision | Paper 1 Radiation revision | Paper 1 Radiation revision | Paper 1 Electricity revision |
| L47 | B3 Infection and response | | B2 Organisation | C4 revision | C4 revision | C4 revision | Exam/ paper 1 or 2 revision | Paper 1 Radiation revision | Paper 1 Particle model revision |
| L48 | B3 Infection and response | | B3 Infection and response | C5 revision | C5 revision | C5 revision | Exam/ paper 1 or 2 revision | Exam/ paper 1 or 2 revision | Paper 1 Radiation revision |
| L49 | Exam/ paper 1 or 2 revision | | Exam/ paper 1 or 2 revision | Exam/ paper 1 or 2 revision | Exam/ paper 1 or 2 revision | Exam/ paper 1 or 2 revision | Exam/ paper 1 or 2 revision | Exam/ paper 1 or 2 revision | Exam/ paper 1 or revision |
| Half term |  | Exam/ paper 1 or 2 revision | | | | | | | |
| Week 1 |  | |  |  |  |  | Exam/ paper 1 or 2 revision | Exam/ paper 1 or revision | Exam/ paper 1 or 2 revision |
| Week 2 |  | |  |  |  |  | Exam/ paper 1 or 2 revision | Exam/ paper 1 or 2 revision | Exam/ paper 1 or 2 revision |
| Week 3 |  | |  |  |  |  |  | |  |
| Week 4 |  | |  |  |  |  |  | |  |
| Week 5 |  | |  |  |  |  |  | |  |
| Week 6 |  | |  |  |  |  |  | |  |