**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 |
| XMAS  |  |  |

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  | AdaptationsSurface 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 | AdaptationsSurface 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  |  |  |  |  |  |  |  |