

| Science | Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 |
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| Year 7 | <u>HT 1</u> Investigative Skills Biology - Cells Chemistry - States of Matter Physics - Energy | <u>HT 2</u> Biology - Organisation Chemistry - Atoms, Elements and Compounds Physics - Forces | <u>HT 3</u> Biology - Reproduction Chemistry - Periodic Table Physics - Electricity | <u>HT 4</u> Biology - Ecosystems Chemistry - Separating Techniques Physics - Waves | <u>HT 5</u> B5 Photosynthesis B6 No Limits Project - Fitness C5 Acids and Alkalis | <u>HT 6</u> Intervention with RPA focus B1-4 C1-4 P1-4 |
| Year 8 | <u>HT 1</u> Biology - Respiration Chemistry - Metals and Non-metals Physics - Forces II | <u>HT2</u> Biology - Microorganisms Chemistry - Energetics Physics - Pressure | <u>HT 3</u> Biology - DNA and Genes Chemistry - Global Challenges Physics - Electromagnets | <u>HT 4</u> Biology - Adaptation Project Chemistry - Earth's Resources Physics - Energy II | <u>HT 5</u> Maths Skills in Science Concepts in Chemistry Physics Project on Waves | <u>HT 6</u> Intervention: Practical skills Analysis and Exam Practice B8-10 C7-10 P7-10 |
| Year 9 | <u>HT1</u> B1 - Cells and Organisation C10 Chemical analysis and C11 Earth's atmosphere | <u>HT2</u> B2 - Cell Division B7 - Non-communicable diseases C12 - Earth's | <u>HT3</u> B3 - Organisation and the digestive system C7 - Energy Changes | <u>HT4</u> B4 - Organisation in Animals and Plants C5 - Chemical changes P4 - Electrical | <u>HT5</u> B5 Communicable diseases, B6 Preventing and Treating Diseases P5 Electricity at | <u>HT6</u> Intervention; RPA focus B1-4, 7 C1-4,6 P1-4 |

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| | P3 - Energy resources | resources P1 - Energy | P2 - Energy and heating | Circuits | Home | |
| Year 10 | <p><u>HT1</u></p> <p>B8 + B9 - Photosynthesis + Respiration C7 - Energy changes P6 - Density</p> <p>Intervention: B1 Cells and Transport, C1 Atoms, Bonding and Moles, P1 Changes in Energy</p> | <p><u>HT2</u></p> <p>B10 - Human Nervous System C8 - Rates and Equilibrium P7 - Radioactivity</p> <p>Intervention: B2 Stem Cells, C2 Periodic Table, P2 Energy Transfers by Heat</p> | <p><u>HT3</u></p> <p>B11 - Hormonal Coordination C9 Crude oils and C10 Chemical analysis and P8 - Forces in Balance</p> <p>Intervention: B3 Organisation and the Digestive System, C1 Bonding, P3 Energy Resources</p> | <p><u>HT4</u></p> <p>B12 - Reproduction C11 - Earth's atmosphere P9 - Speed and Velocity</p> <p>Intervention: B4 Organisation in Animals and Plants, C4 Chemical Calculations, P4 Electricity at Home</p> | <p><u>HT5</u></p> <p>B13 Variation and Evolution C12 Earth's Resources P10 Forces and Motion</p> <p>Intervention: B5 Communicable Diseases; C5 Chemical Changes</p> | <p><u>HT6</u></p> <p>Intervention and RPA focus for: B6-9: Preventing and Treating Diseases, Non-communicable diseases, Photosynthesis, Respiration C6-9: Electrolysis, Energy Changes, Rates and Equilibrium and Crude Oil P6-9 Molecules and Matter; Radioactivity, Forces in Balance, Motion Revision for End of Year Test</p> |
| Year 11 | <u>HT1</u> | <u>HT2</u> | <u>HT3</u> | <u>HT4</u> | <u>HT5</u> | <u>HT5</u> |

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| | <p>B14 (Combined) Genetics and Evolution;</p> <p>C12 (Combined) Earth Resources; P11, P12 -Waves, Electromagnetic Spectrum (Combined)</p> <p>Intervention; B1-4 Cells and Transport, Cell Division, Organisation and Digestive System, Transport in Animals and Plants. (Combined)</p> <p>C1-4 Atoms, Bonding and Moles, Periodic Table, Structure and Bonding, Chemical Calculations (Combined)</p> <p>P1-3 Changes in Energy Stores, Energy Transfers by</p> | <p>B15, B16 (Combined) - Adaptations, Interdependence and Competition, Organising and Ecosystem (Combined), Biodiversity and Ecosystem</p> <p>Intervention: B5-9 Communicable diseases, Preventing and treating diseases, Non-communicable diseases, Photosynthesis, Respiration; C5-7 Chemical Changes, Electrolysis, Energy Changes, P4-7 Electrical Circuits, Electricity in the Home, Molecules and Matter, Radioactivity</p> | <p>B3, B10, B11 Revision C8-10 Revision P3, P8-10 Revision Intervention: B10-11 The nervous system, Hormonal Coordination, C8-9 Rates and Equilibrium, Crude Oil, P8-10 Forces in Balance, Motion, Forces in Motion</p> | <p>B4,12-17 Revision C11-12 Revision P4, P11-13 Revision Exam Practice for all 3 subjects</p> <p>Intervention: B12-17 Reproduction, Variation and Evolution, Genetic Evolution, Adaptations, Inheritance and Competition, Organising an Ecosystem, Biodiversity in the Ecosystem; C10-12 Chemical Analysis, The Earth's Atmosphere, The Earth's Resources; P11-13 Wave Properties; Electromagnetic Waves, Electromagnetism - Exam practice</p> | <p>Paper 1 Exam Practice Required Practical Assessment Applied Questions</p> <p>Half Term Intervention</p> | <p>Revision of content and exams</p> |
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| | Heat, Energy Resources (Combined) | | | | | |
| Year 12 Biology | <u>HT 1</u> Chapter 2 Cell structure Chapter 3 Biological Molecules Chapter 4 Enzymes | <u>HT 2</u> Chapter 5 Biological membranes Chapter 6 Cell division Chapter 12 Disease Chapter 9 Transport in Plants | <u>HT 3</u> Chapter 12 Disease Cont. Chapter 9 Transport in Plants Cont. | <u>HT 4</u> Chapter 10 Classification Chapter 7 Exchanges rufaces | <u>HT 5</u> Chapter 11 Biodiversity Chapter 8 Transport in Animals Revision of AS content | <u>HT 6</u> Revision and End Of Year exams |
| Year 12 Chemistry | <u>HT1</u> Transition from GCE to A level Chem Chapter 2 :Atoms ions & compounds Chapter 3 : amount of substance Chapter 4 : acids and Redox Chapter 5 : Electrons and bonding | <u>HT2</u> Chapter 6 : Shapes molecules and IMF Chapter 7 : Periodicity Chapter 8 : Reactivity trends Chapter 9: Enthalpy | <u>HT3</u> Chapter10 :Rates and equilibrium + Module 1 PAG's of module 2 & 3 + Module 2 & 3 Revision | <u>HT4</u> Chapter 11 : Basic concepts of organic Chemistry Chapter 12 :Alkanes Chapter 13 : Alkenes Chapter 14 : Alcohols : | <u>HT5</u> Chapter 15 : Haloalkanes Chapter 16 Organic Synthesis Chapter 17 : Spectroscopy + Module 1 PAG's of module 4 + Module 4 Revision | <u>HT6</u> Revision and End Of Year exams |
| Year 13 Biology | <u>HT 1</u> Chapter 13 Neural Communication | <u>HT 2</u> Chapter 15 Homeostasis | <u>HT 3</u> Chapter 16 Plant Responses | <u>HT 4</u> Chapter 18 Respiration | <u>HT 5</u> Revision of AS and A2 content | <u>HT 6</u> Revision of AS and A2 content |

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| | Chapter 14 Hormonal Communication Chapter 23 Ecosystems Chapter 24 Populations and Sustainability | Chapter 22 Cloning and Biotechnology | Chapter 17 Energy for Biological Processes Chapter 20 Patterns of Inheritance and Variation Chapter 21 Manipulating Genomes | Chapter 19 Genetics of Living Systems Revision of AS and A2 content | | |
| Year 13 Chemistry | <u>HT</u> Chapter 18: rates of reaction Chapter 19 : Equilibrium Chapter 20: acid bases and pH Chapter 21 : Buffers and neutralisation + AS Revision | <u>HT</u> Chapter 22 : Enthalpy and entropy Chapter 23 : Redox and electrode potential Chapter 24 : Transition elements + Module 5 Revision + + AS Revision | <u>HT</u> Chapter 25 : aromatic Chemistry Chapter 26 : Carbonyls and carboxylic acids Chapter 27 : Amines and amino acids | <u>HT</u> Chapter 28 : Organic synthesis Chapter 29 : Spectroscopy PAG & Revision Module 5 & 6 Revision | <u>HT</u> Revision content of A level | <u>HT</u> Exams & Revision |
| Year 12. Physics | <u>HT 1</u> Topic 1: Matter and radiation Topic 2: Quarks and leptons Topic 3: Quantum phenomena | <u>HT2</u> Topic 5: Optics Topic 6: Forces and Equilibrium Topic 7: On the move | <u>HT3</u> Topic 7: On the move Topic 8: Newton's Laws Topic 9: Force and Momentum | <u>HT4</u> Topic 11: Materials Topic 12: Electric current Topic 13: DC circuits | <u>HT5</u> Revision of topics 1-13 for AS exam | <u>HT6</u> Topic 26: Radioactivity Topic 27: Nuclear energy |

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| | Topic 4: Waves | | Topic 10: Work, energy and power | | | |
| Year 12. BTEC. | <u>HT1</u> Unit 2 : Assignment A Unit 2 Assignment B | <u>HT2</u> Unit 2 : Assignment A Unit 2 Assignment C | <u>HT3</u> Unit 2 : Assignment D Unit 1 : Teaching Biology , Chem , | <u>HT3</u> Unit 1 : Teaching Physics Revision Bio and Physics , | <u>HT4</u> Revision and exam Practice | <u>HT5</u> Practical Scientific skills |