

	Term 1	Term 2	Term 3
Year 7	<ul style="list-style-type: none"> <li>• Introductory to Science- Health and Safety</li> <li>• Interdependence</li> <li>• Matter</li> <li>• Forces</li> <li>• Consolidation and revision on Year 7 Science for internal assessment</li> <li>• Genes- Variation and Reproduction</li> <li>• Reactions- Acids and Alkalis</li> <li>• Energy, Sound</li> <li>• Christmas Science Fun</li> </ul>	<ul style="list-style-type: none"> <li>• Continuing</li> <li>• Genes- Variation and Reproduction</li> <li>• Reactions- Acids and Alkalis</li> <li>• Energy, Sound</li> <li>• Consolidation and revision on Year 7 Science for internal assessment</li> <li>• Electricity</li> <li>• Matter-Separating Mixtures</li> <li>• Cells and movement</li> </ul>	<ul style="list-style-type: none"> <li>• Continuing-</li> <li>• Electricity</li> <li>• Matter-Separating Mixtures</li> <li>• Cells and movement</li> <li>• Consolidation and revision on Year 7 Science for internal assessment</li> <li>• Earth Structure</li> <li>• Plant Reproduction</li> <li>• STEM Challenge</li> </ul>
Year 8	<ul style="list-style-type: none"> <li>• Electromagnets</li> <li>• Matter- Separating mixtures</li> <li>• Ecosystems- Photosynthesis and Respiration</li> <li>• Consolidation and revision on Year 7 and Year 8 Science for internal assessment</li> <li>• Waves</li> <li>• Matter- Elements and Periodic table</li> <li>• Organisms- Breathing and lifestyle</li> </ul>	<ul style="list-style-type: none"> <li>• Continuing</li> <li>• Waves</li> <li>• Matter- Elements and PT</li> <li>• Organisms- Breathing and lifestyle</li> <li>• Consolidation and revision on Year 7 and Year 8 Science for internal assessment</li> <li>• Organisms- Digestion</li> <li>• Energy- Heating and cooling</li> <li>• Earth-Space and Forces-Gravity</li> <li>• Reactions- Metals and non metals</li> </ul>	<ul style="list-style-type: none"> <li>• Continuing-</li> <li>• Organisms Digestion</li> <li>• Energy- Heating and cooling</li> <li>• Earth-Space and Forces-Gravity</li> <li>• Reactions- Metals and non metals</li> <li>• Consolidation and revision on Year 7 and 8 Science for internal assessment</li> <li>• Forensics and CSI day</li> <li>• Microbiology</li> </ul>

Year 9	<ul style="list-style-type: none"> <li>• Reactions- Chemical energy and types of reactions</li> <li>• Ecosystem- Photosynthesis</li> <li>• Forces-Speed and gravity</li> <li>• Consolidation and revision on Year 9 Science for internal assessment</li> <li>• Ecosystems- Respiration</li> <li>• Forces- Contact forces and pressure</li> <li>• Eden Chemistry-</li> </ul>	<ul style="list-style-type: none"> <li>• Continuing-</li> <li>• Ecosystems- Respiration</li> <li>• Forces- Contact forces and pressure</li> <li>• Eden Chemistry-</li> <li>• Biology Eden- The ecology of Morecambe Bay and Biodiversity</li> <li>• Physics Eden- Energy Efficiency and Powering Morecambe</li> <li>• Consolidation and revision on Year 9 Science internal assessment</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Biomimicry including energy transfer, chemical reactions and photosynthesis and areas studied at GCSE (e.g. nanotechnology, nerve impulses and forces)</li> <li>• STEM Challenge</li> </ul>
Year 10 Trilogy Combined Science	<ul style="list-style-type: none"> <li>• Cells and respiration</li> <li>• Organisation</li> <li>• Atoms</li> <li>• Energy Changes</li> <li>• Energy and Particle model</li> </ul>	<ul style="list-style-type: none"> <li>• Continued</li> <li>• Energy and Particle model</li> <li>• Plant systems and Photosynthesis</li> <li>• Bonding</li> <li>• Atoms and radioactivity</li> </ul>	<ul style="list-style-type: none"> <li>• Infection and response</li> <li>• Quantitative chemistry</li> <li>• Chemical reactions</li> <li>• Yr 10 mock exam</li> <li>• Ecosystems</li> <li>• Organic Chemistry</li> <li>• Magnetism</li> </ul>

Year 10 Triple Biology	<ul style="list-style-type: none"> <li>• Cells and respiration</li> <li>• Organisation</li> </ul>	<ul style="list-style-type: none"> <li>• Organisation Plants and Photosynthesis</li> <li>• Infection and Response</li> </ul>	<ul style="list-style-type: none"> <li>• Ecosystems</li> <li>• Homeostasis-Nervous System</li> <li>• Year 10 mock exam</li> </ul>
Year 10 Triple Chemistry	<ul style="list-style-type: none"> <li>• Atomic Structure</li> <li>• Energy Changes</li> <li>• Bonding</li> </ul>	<ul style="list-style-type: none"> <li>• Bonding continued</li> <li>• Chemical Reactions</li> <li>• Quantitative Chemistry</li> </ul>	<ul style="list-style-type: none"> <li>• Quantitative Chemistry continued</li> <li>• Rates of reactions</li> <li>• Year 10 mock exam</li> </ul>
Year 10 Triple Physics	<ul style="list-style-type: none"> <li>• Energy and particle model</li> <li>• Electrical circuits</li> </ul>	<ul style="list-style-type: none"> <li>• Atoms and radioactivity</li> <li>• Magnetism</li> </ul>	<ul style="list-style-type: none"> <li>• Forces- Elasticity</li> <li>• Forces- Movement</li> <li>• Year 10 mock exam</li> </ul>

Year 11 Trilogy Combined Science	<ul style="list-style-type: none"> <li>• Biology- Ecology</li> <li>• Chemistry- The rate and extent of chemical change</li> <li>• Physics- Waves and Magnetism and Electromagnetism</li> <li>• Paper 1 Mock Revision to include-</li> <li>• Biology- Cells; Organisation; Infection and Response and Bioenergetics</li> <li>• Chemistry- Atoms; Bonding and the periodic table; Quantitative Chemistry; Chemical changes and Energy Changes</li> <li>• Physics- Energy; Electricity; Particle model of matter and atomic structure</li> </ul>	<ul style="list-style-type: none"> <li>• Chemistry- Chemical Analysis, Chemistry of the Atmosphere and Using resources</li> <li>• Paper 1 and Paper 2 Mock Revision (see end column for topics)</li> </ul>	<ul style="list-style-type: none"> <li>• Paper 1 revision for external exams.</li> <li>• Biology- Cells; Organisation; Infection and Response and Bioenergetics</li> <li>• Chemistry- Atoms; Bonding and the periodic table; Quantitative Chemistry; Chemical changes and Energy Changes</li> <li>• Physics- Energy; Electricity; Particle model of matter and atomic structure</li> <li>• Paper 2 revision for external exams-</li> <li>• Biology- Homeostasis and response; Inheritance, variation and Evolution and Ecology</li> <li>• Chemistry- Rate and extent of chemical change; Organic Chemistry; Chemical Analysis; Chemistry of the atmosphere and using resources</li> <li>• Physics- Forces; waves; magnetism and electromagnetism</li> </ul>
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Year 11 Triple Science	<ul style="list-style-type: none"> <li>• Paper 1 Mock Revision to include-</li> <li>• Biology- Cells; Organisation; Infection and Response and Bioenergetics</li> <li>• Chemistry- Atoms; Bonding and the periodic table; Quantitative Chemistry; Chemical changes and Energy Changes</li> <li>• Physics- Energy; Electricity; Particle model of matter and atomic structure</li>   <li>• Triple Biology- Inheritance, variation and evolution and Ecology</li> <li>• Triple Chemistry- Chemical analysis and Chemistry of the atmosphere</li> <li>• Triple Physics- Waves and Magnetism and Electromagnets</li> </ul>	<ul style="list-style-type: none"> <li>• Triple Biology- Ecology continued</li> <li>• Triple Chemistry- Using resources</li> <li>• Triple Physics- Space Physics</li> <li>• Paper 1 and Paper 2 Mock revision for all three subjects ( see end column for topics)</li> </ul>	<ul style="list-style-type: none"> <li>• Triple Paper 1 and Paper 2 revision</li> <li>• Triple Biology Paper 1- Cells; Organisation; Infection and Response and Bioenergetics</li> <li>• Triple Biology Paper 2- Biology- Homeostasis and response; Inheritance, variation and Evolution and Ecology</li>   <li>Triple Chemistry Paper 1-</li> <li>• Chemistry- Atoms; Bonding and the periodic table; Quantitative Chemistry; Chemical changes and Energy Changes</li> <li>• Triple Chemistry Paper 2- Rate and extent of chemical change; Organic Chemistry; Chemical Analysis; Chemistry of the atmosphere and using resources</li>   <li>• Triple Physics Paper 1- Energy; Electricity; Particle model of matter and atomic structure</li> <li>• Triple Physics Paper 2 Physics- Forces; waves; magnetism and electromagnetism and Space Physics</li> </ul>
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A Level Biology Year 12	<ul style="list-style-type: none"> <li>• <b>Module 1- Development of practical skills (PAGs)</b></li> <li>• <b>Module 2- Fundamentals of Biology</b> including- the basic components of living systems; biological molecules;</li> <li>• Plasma membranes</li> <li>• enzymes;</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Module 1- Development of practical skills (PAGs)</b></li> <li>• <b>Module 2- Fundamentals of Biology</b> continued- plasma membranes</li> <li>• <b>Module 3- Exchange and Transport</b> including exchange surfaces and breathing; transport in animals; transport in plants.</li> <li>• <b>Module 4- Biodiversity, Evolution and Disease</b> including biodiversity; communicable disease</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Module 1- Development of practical skills (PAGs)</b></li> <li>• <b>Module 4- Biodiversity, Evolution and Disease</b> continued including Biodiversity, classification and Evolution</li> <li>• <b>Revision of Modules 1, 2, 3 and 4</b> (Year 12 content) – for internal assessments</li> <li>• <b>Module 6- Genetics, Evolution and Ecosystems</b> including- Ecosystems and Patterns of Inheritance (year 13 work)</li> </ul>
A Level biology Year 13	<ul style="list-style-type: none"> <li>• <b>Review and consolidation of modules 1, 2, 3 and 4</b> (Year 12 content)</li> <li>• <b>Module 1- Further development of practical skills in Biology (PAGs)</b></li> <li>• <b>Module 6- Genetics, Evolution and Ecosystem</b> including- cellular control; patterns of inheritance; ecosystems; cloning; biotechnology and manipulating genomes</li> <li>• <b>Module 5- Communication, Homeostasis and Energy</b> including photosynthesis; respiration;</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Module 1- Further development of practical skills in Biology (PAGs)</b></li> <li>• <b>Module 5- Communication, Homeostasis and Energy</b> including photosynthesis; respiration; plant hormones and homeostasis; hormonal communication and neuronal communication</li> <li>• <b>Revision for mock exams</b> (paper 1: module 1, 2, 3, 5; paper 2 module 1, 2, 4, 6; paper 3 unified biology – all content)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Module 1</b>-Completion of practical skills (PAGs) to meet practical endorsement</li> <li>• <b>Revision for external exams</b></li> <li>• (paper 1: module 1, 2, 3, 5; paper 2 module 1, 2, 4, 6; paper 3 unified biology – all content)</li> </ul>

A Level Chemistry Year 12	<ul style="list-style-type: none"> <li>• <b>Module 1:</b> Development of practical skills in Chemistry (PAGs)</li> <li>• <b>Module 2: Foundations in Chemistry</b> – topics on atoms, ions and compounds, amount of substance, acids and redox, electrons and bonding, shapes of molecules and intermolecular forces</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Module 1:</b> Development of practical skills in Chemistry (PAGs)</li> <li>• <b>Module 3: Periodic table and energy</b> – topics on the periodic table, reactivity trends, enthalpy</li> <li>• <b>Module 4: Core organic chemistry</b> – topics on alkanes, alkenes, alcohols, haloalkanes and organic synthesis</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Module 1:</b> Development of practical skills in Chemistry (PAGs)</li> <li>• <b>Module 3: Periodic table and energy</b> – topic on equilibrium and reaction rates and consolidation of the whole of module 3</li> <li>• <b>Module 4: Core organic chemistry</b> – topic on spectroscopy and consolidation of the whole of module 4</li> <li>• <b>Revision of Modules 1, 2, 3 and 4</b> (Year 12 content) – for internal assessments</li> <li>• <b>Module 5: Physical chemistry and transition elements</b> – begin topic on reaction rates (Year 13 content)</li> <li>• <b>Module 6: Organic chemistry and analysis</b> – begin topic on aromatic compounds (Year 13 content)</li> </ul>
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A Level Chemistry Year 13	<ul style="list-style-type: none"> <li>• <b>Review and consolidation of modules 1, 2, 3 and 4</b> (Year 12 content)</li> <li>• <b>Module 1-</b> Further development of practical skills in Chemistry (PAGs)</li> <li>• <b>Module 5: Physical chemistry and transition elements</b> -topics on rates of reaction, equilibrium, acid, bases and buffers, enthalpy and entropy, redox and electrode potentials (Year 13 content)</li> <li>• <b>Module 6: Organic chemistry and analysis</b> - topics on aromatic compounds, carbonyl &amp; carboxylic acids, amines, amino acids and polymers and organic synthesis (Year 13 content)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Module 1-</b> Further development of practical skills in Chemistry (PAGs)</li> <li>• <b>Module 5: Physical chemistry and transition elements</b> – transition metals topic and consolidation of the whole of module 5 (Year 13 content)</li> <li>• <b>Module 6: Organic chemistry and analysis</b> - chromatography and spectroscopy topic and consolidation of the whole of module 6 (Year 13 content)</li> <li>• <b>Revision for mock exams</b> (paper 1: module 1, 2, 3, 5 paper 2 module 1, 2, 4 6; paper 3 unified chemistry – all content)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Module 1</b> -Completion of practical skills (PAGs) to meet practical endorsement</li> <li>• <b>Revision for external exams</b></li> <li>• (paper 1: module 1, 2, 3, 5 paper 2 module 1, 2, 4 6; paper 3 unified chemistry – all content)</li> </ul>
A Level Physics Year 12	<ul style="list-style-type: none"> <li>• <b>Module 1:</b> Development of practical skills in Physics (PAGs)</li> <li>• <b>Module 2: Foundations in Physics</b> – Topics including- Physical quantities and Making measurements and analysing data ; Nature of quantities taught throughout Module 3</li> <li>• <b>Module 3: Forces and motion;</b> topics including Motion; Forces in action; Work, energy and power; Materials; Newton’s laws of motion and momentum</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Module 1:</b> Development of practical skills in Physics (PAGs)</li> <li>• <b>Module 4: Electrons, waves and photons</b> – topics including Charge and current; Energy, power and resistance; Electrical circuits and Waves;</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Module 1:</b> Development of practical skills in Physics (PAGs)</li> <li>• <b>Module 4: Electrons, waves and photons continued including</b> Quantum physics</li> <li>• <b>Revision of Modules 1, 2, 3 and 4</b> (Year 12 content) – for internal assessments</li> <li>• <b>Module 5: – Newtonian world and astrophysics</b> topics including Thermal Physics (Year 13 content)</li> </ul>



A Level Physics Year 13	<ul style="list-style-type: none"> <li>• <b>Module 1: Further development of practical skills in Physics (PAGs)</b></li> <li>• <b>Module 5 –Newtonian world and astrophysics</b> including Circular Motion; Oscillations and Gravitational fields</li> <li>• <b>Module 6- Particles and medical physics</b> including Capacitors and Electric fields</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Module 1: Further development of practical skills in Physics (PAGs)</b></li> <li>• <b>Module 5 –Newtonian world and astrophysics including</b> Astrophysics and cosmology</li> <li>• <b>Module 6- Particles and medical physics</b> Electric fields (finish); Magnetic fields; Nuclear and particle physics; Nuclear and particle physics; Medical Imaging</li> <li>• <b>Revision for mock exams</b> (paper 1: module 1, 2, 3, 5 paper 2 module 1, 2, 4 6; paper 3 unified chemistry – all content)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Module 1 -Completion of practical skills (PAGs) to meet practical endorsement</b></li> <li>• <b>Revision for external exams</b></li> <li>• (paper 1: module 1, 2, 3, 5 paper 2 module 1, 2, 4 6; paper 3 unified chemistry – all content)</li> </ul>
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