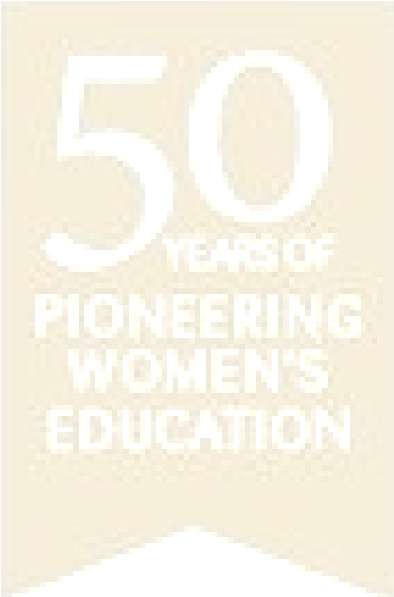
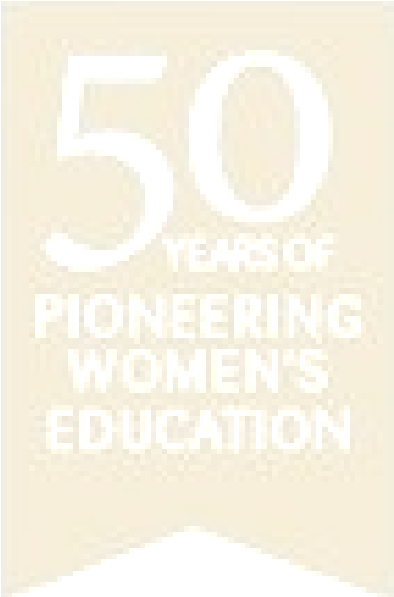
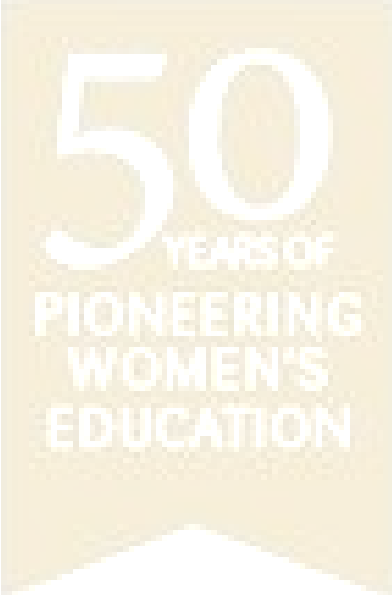


Curriculum Overview – Subject

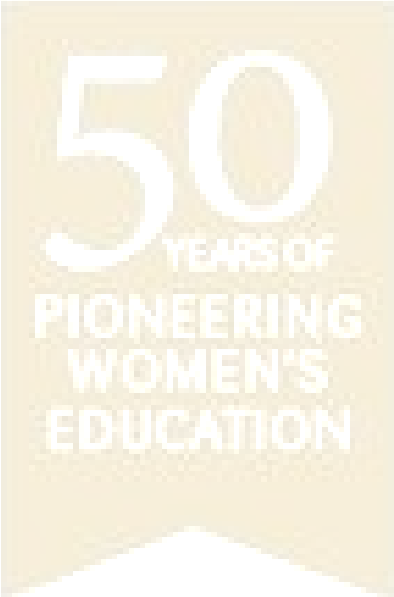
	Intent for the year	Units	Duration	Assessment
Year 7	<p>The primary objective of our science curriculum is to equip students with a comprehensive understanding of the subject matter, we do this by exploring the 10 key ideas that underpin Science.</p> <p>In Year 7, we lay a strong foundation by introducing fundamental scientific concepts, focusing on developing core practical skills and vocabulary required to grasp complex scientific phenomena. Additionally, we integrate mathematical and practical skills throughout the year, creating a stimulating learning environment that encourages students to actively engage with the subject matter.</p> <p>Our teaching methodology heavily emphasizes contextualization, allowing students to relate to the subject matter more effectively. We adopt a layered approach to topics, whereby concepts introduced earlier in the year serve as building blocks for future learning.</p> <p>Overall, our science curriculum is designed to inspire and motivate students to explore the intricacies of the natural world, fostering a lifelong love for learning and discovery.</p>	<ol style="list-style-type: none"> 1. Forces As part of their learning, students will investigate various types of forces and their relationship to balanced and unbalanced forces. They will delve into the fundamental force of gravity and its critical role in the universe. Additionally, they will gain an understanding of speed and how to interpret distance-time graphs. 2. Electromagnets Throughout their studies, students will acquire knowledge of essential principles concerning electricity, such as current, potential difference, and resistance. They will examine how resistance can fluctuate in varying circuits. Moreover, students will be capable of elucidating static electricity and connecting it to the world they inhabit. 3. Energy As part of their curriculum, students will gain an understanding of both renewable and non-renewable energy resources, and critically evaluate their environmental impact. They will analyse the various types of energy resources with a particular focus on their efficacy and power, in relation to everyday situations. 4. Waves Throughout their course, students will delve into the study of sound and light waves. They will gain knowledge of the workings of the ear 	<ol style="list-style-type: none"> 1. 2 weeks 2. 3 weeks 3. 3 weeks 4. 3 weeks 	<p>Low stakes assessments: A range of self, peer and teacher assessed tasks. These will include practical, numerical, literacy tasks and end of topic tests.</p> <p>End of term tests: these are cumulative (all topics covered until that point).</p> 

	<p>in detecting sounds and the eye in detecting light. Additionally, they will acquire a comprehensive understanding of color, frequency, amplitude, and pitch.</p>	<p>5. Matter As part of their curriculum, students will acquire knowledge of the fundamental principles of the particle model and the various states of matter. They will investigate the changes of state and connect this to particle diagrams. Furthermore, they will gain an understanding of and carry out different separation techniques, including chromatography, filtration, distillation, and crystallization.</p> <p>6. Reactions Throughout their studies, students will explore the reactions of acids and alkalis, and acquire the skills necessary to identify the pH of a substance using practical techniques. Additionally, they will perform various experiments to gain insight into the significant reactions that occur between metals and non-metals, metals and acids, metals and oxygen, and metals and water.</p> <p>7. Earth Science As part of their curriculum, students will develop an understanding of the planet they inhabit. They will study the structure of the Earth, the various types of rocks, and their practical applications. Additionally, they will explore the world beyond by looking up into the night sky, examining the solar system, and</p>	<p>5. 4 weeks</p> <p>6. 3 weeks</p> <p>7. 2 weeks</p> <p>8. 2 weeks</p>	
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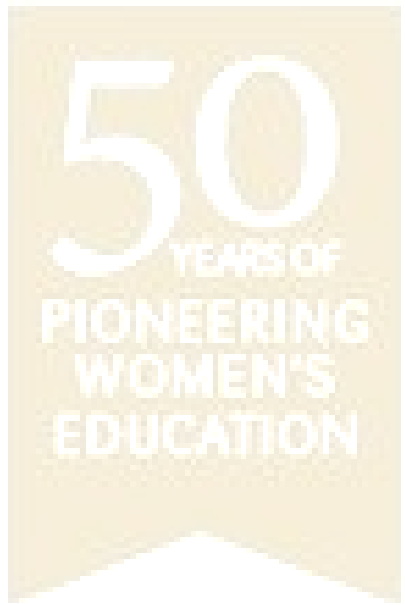
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	<p>gaining insight into the properties of the moon.</p> <p>8. Organisms Throughout their course, students will explore the intricate workings of their bodies. They will gain knowledge of the vital role of muscles, the structure of the skeleton, and the basics of a cell, including specialized cells and plant cells. This will equip them with the fundamental knowledge necessary for the study of Biology.</p> <p>9. Ecosystems Students will look at the ecosystems around them and learn about the different food chains and food webs to understand predator-prey relationships. They will learn about the structure and life cycle of a plant and explore the plant reproductive system</p> <p>10. Genes In this topic, students will explore what makes them unique. They will look at the inheritance of their genes from their parents. They will explore the human reproductive system and learn about adolescence, the menstrual cycle, reproductive organs in males and females, and the development of a foetus.</p>	<p>9. 2 weeks</p> <p>10. 2 weeks</p>	
Year 8	<p>Year 8 science curriculum serves as a bridge between foundational knowledge and advanced concepts, laying the groundwork for future academic pursuits. We continue to explore the 10 key ideas in science however in much more depth in</p>	<p>1. Forces Students will build on their knowledge from Year 7 and delve into the types of forces, contact and non-contact. They will explore turning forces and calculate them. They will also investigate pressure in gases and liquids.</p>	<p>1. 4 weeks</p> <p>Low stakes assessments: A range of self, peer and teacher assessed tasks. These will include practical, numerical, literacy tasks and end of topic tests</p>

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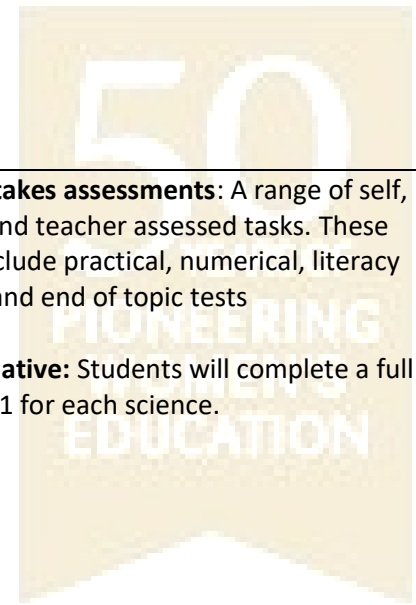
<p>year 8. Our topics are meticulously designed to inspire a love for science while also preparing our students for possible STEM pathways.</p> <p>We explore mathematical, practical, and exam skills across all three sciences, encouraging students to delve deeper into the subject matter and develop a passion for learning.</p> <p>Our approach to teaching focuses on nurturing scientific curiosity and fostering a growth mindset, empowering our students to take on challenges with confidence and enthusiasm. We believe that our students' engagement with science should not be limited to GCSE exams, but rather extend beyond the classroom to their future careers and personal pursuits.</p> <p>Therefore, we equip our students with the necessary tools and skills to pursue STEM pathways, should they choose to do so. By providing an engaging and challenging learning environment, we hope to ignite a lifelong love for science and inspire our students to become the next generation of innovators and problem solvers.</p>	<p>2. Electromagnets Students will learn about magnets and the magnetic field. They will be able to draw the magnetic field using a compass and a bar magnet as well as use their knowledge from Year 7 about electricity to build an electromagnet.</p> <p>3. Energy Students will learn about energy transfers involved in heating and cooling. They will explore radiation, convection and conduction as well as link them to everyday scenarios for example home insulation.</p> <p>4. Waves The students will build on their knowledge from Year 7 about sound waves and light waves and be able to model the different types of waves.</p> <p>5. Matter Building on the idea of particles and states of matter, pupils will learn about atoms, elements, compounds and mixtures. They will learn about the periodic table and investigate trends found amongst the groups in the periodic table.</p> <p>6. Reactions Students will explore the idea of the conservation of mass in a chemical reaction and explore different reactions including combustion and thermal decomposition.</p>	<p>2. 2 weeks</p> <p>3. 2 weeks</p> <p>4. 3 weeks</p> <p>5. 4 weeks</p> <p>6. 4 weeks</p> <p>7. 4 weeks</p>	<p>End of term tests: these are cumulative (all topics covered until that point).</p> 
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		<p>Earth Science Students will explore the earth's resources. They will dig deeper into the causes of climate change and evaluate its effects. They will also think about ways to combat the issues that we face around climate change and global warming as the next generation of scientists.</p> <p>Organisms Students will continue to learn more about their bodies as they explore the gas exchange system and breathing, they will explore the digestive system and the process of extracting nutrients from our food. They will also learn about the different effects of drugs and alcohol on the body.</p> <p>7. Ecosystems Pupils will look at the relationship between plants and animals by exploring respiration and photosynthesis. They will be able to explain the importance of each of these reactions in animals and plants.</p> <p>8. Genes Pupils will continue to look at genes and learn about the importance of DNA. They will delve into the role of evolution, natural selection and mutations as well as understand extinction.</p>	<p>8. 4 weeks</p> <p>9. 2 weeks</p> <p>10. 4 weeks</p>	
Year 9	<p>The Year 9 Science curriculum aims to build upon the breadth of knowledge gained in years 7 and 8 so a depth of knowledge and understanding across Biology, Chemistry and Physics is developed. Students are challenged to understand that every effect</p>	<p>Autumn term: P1: Conservation and dissipation of energy C1: Atomic Structure B1: Cell Structure and Transport</p>	<p>4 weeks 3 weeks 5 weeks</p>	<p>Low stakes assessments: A range of self, peer and teacher assessed tasks. These will include practical, numerical, literacy tasks and end of topic tests</p>

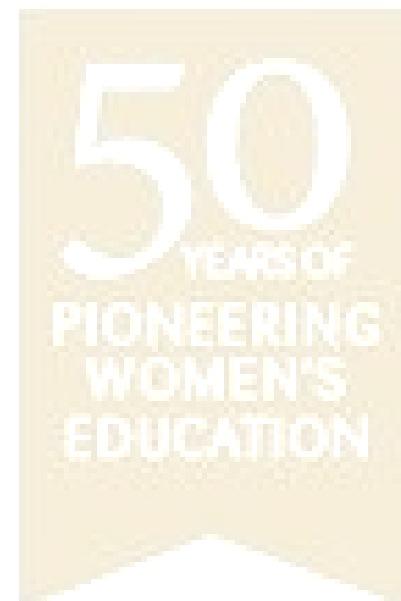
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	<p>has one or more cause and are taught to evaluate scientific claims through critical analysis of methodology, evidence and conclusions. Students are encouraged to understand how to apply their scientific knowledge to make informed decisions about everyday Science contexts and should finish KS4 confident in the use of scientific vocabulary and nomenclature. Students will start the GCSE course, building on their understanding of key scientific concepts and apply their knowledge to more complex scenarios and real-world applications</p>	<p>Spring term: B2: Cell Division B3: Organisation and Digestive System</p> <p>P2: Energy transfer by heating P3: Energy Resources</p> <p>Summer Term: C2: The Periodic Table C3: Structure and Bonding B4: Organising animals and plants</p>	<p>2 weeks 4 weeks</p> <p>2 weeks 3 weeks</p> <p>3 weeks 4 weeks 4 weeks</p>	<p>End of term tests are cumulative (all topics covered until that point)</p>
<p>Year 10</p>	<p>The Year 10 Science curriculum aims to build upon the breadth of knowledge gained in years 7, 8 and 9 so a depth of knowledge and understanding across Biology, Chemistry and Physics is developed. Students are challenged to understand that every effect has one or more cause and are taught to evaluate scientific claims through critical analysis of methodology, evidence and conclusions. Students are encouraged to understand how to apply their scientific knowledge to make informed decisions about everyday Science contexts and should finish KS4 confident in the use of scientific vocabulary and nomenclature. Students will study a range of topics across the sciences, building upon knowledge from KS3, increasing in complexity and ensuring a broader and deeper understanding of the world around us. Ethical issues are also</p>	<p><u>Combined Science:</u> <u>Autumn term:</u> P6: Molecules and matter P7: Radioactivity P4: Electrical circuits P5: Electricity in the home</p> <p>B5: Communicable disease B6: Preventing and treating disease</p> <p><u>Spring term:</u> B7: Non-communicable disease B8: Photosynthesis B9: Respiration</p> <p>C4: Chemical Calculations C5: Chemical changes C6: Electrolysis</p> <p><u>Summer term:</u> C7: Energy Changes B15: Adaptation, Interdependence and competition</p>	<p>2 weeks 2 weeks 3 weeks 2 weeks</p> <p>3 weeks</p> <p>2 weeks 3 weeks</p> <p>2 weeks 3 weeks 1 week</p> <p>2 weeks 2 weeks</p>	<p>Low stakes assessments: A range of self, peer and teacher assessed tasks. These will include practical, numerical, literacy tasks and end of topic tests</p> <p>Cumulative: Students will complete a full paper 1 for each science.</p>



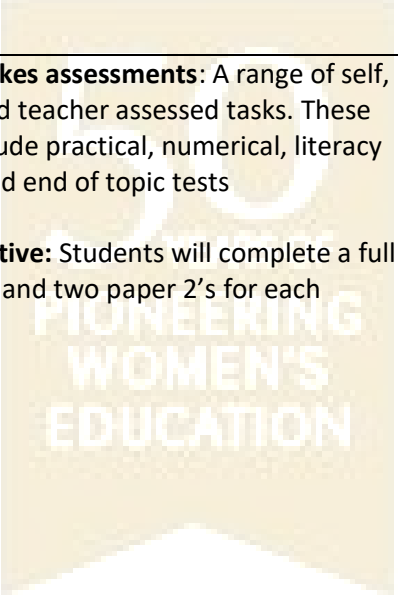
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explored to prepare students for their role as global citizens.	B16: Organising and ecosystem B17: Biodiversity and ecosystems	1 week 2 weeks
	Triple: Biology Autumn B5: Communicable disease B6: Preventing and treating disease B7: Non-communicable disease B8: Photosynthesis Spring B9: Respiration B10: The Human Nervous System Summer B16: Adaptation, Interdependence and competition B17: Organising and ecosystem B18: Biodiversity and ecosystems	3 weeks 4 weeks 3 weeks 4 weeks 5 weeks 5 weeks 4 weeks 4 weeks
	Triple: Chemistry Autumn Structure and bonding C4: Chemical Calculations C5: Chemical changes Spring C6: Electrolysis C7: Energy Changes Summer C8: Rates and Equilibrium C9: Crude Oil and fuels C10: Organic reactions	3 weeks 6 weeks 5 weeks 3 weeks 5 weeks 5 weeks 4 weeks
	Triple: Physics Autumn P6: Molecules and matter	5 weeks



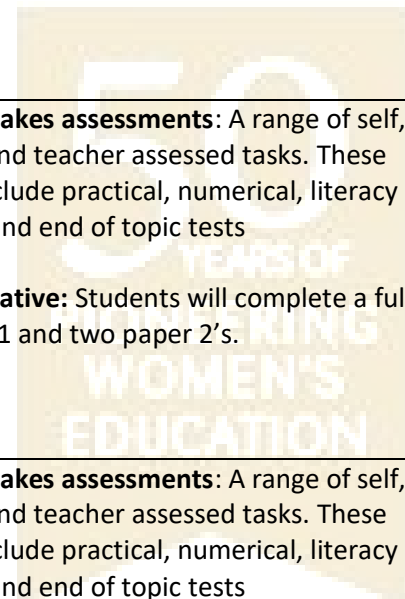
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		<p>P7: Radioactivity P4: Electrical circuits</p> <p>Spring P5: Electricity in the home P8: Forces in Balance</p> <p>Summer P9: Motion P10: Forces and Motion P11: Forces and Pressure</p>	<p>3 weeks 5 weeks</p> <p>4 weeks 5 weeks</p> <p>3 weeks 4 weeks 4 weeks</p>	
Year 11	<p>The Year 11 Science curriculum aims to build upon the breadth of knowledge gained in the GCSE course so far, so that a depth of knowledge and understanding across Biology, Chemistry and Physics is developed. Students are challenged to understand that every effect has one or more cause and are taught to evaluate scientific claims through critical analysis of methodology, evidence and conclusions. Students are encouraged to understand how to apply their scientific knowledge to make informed decisions about everyday Science contexts and should finish KS4 confident in the use of scientific vocabulary and nomenclature. Students will study a range of topics across the sciences, building upon knowledge from KS3, increasing in complexity and ensuring a broader and deeper understanding of the world around us. Ethical issues are also explored to prepare students for their role as global citizens.</p>	<p>Combined Science: <u>Autumn</u> B11: Hormonal Coordination B12: Reproduction B13: Variation and Evolution B14: Genetics and Evolution B15: Adaptation, interdependence and competition B16: Organising an ecosystem B17: Biodiversity and ecosystems</p> <p>C8: Rates and equilibrium C9: Crude oil and fuels</p> <p><u>Spring</u> C10: Chemical analysis C11: The Earth's Atmosphere C12: The Earth's Resources P8: Forces in balance P9: Motion P10: Force and Motion P11: Wave properties</p> <p><u>Summer</u> P12: Electromagnetic waves P13: Electromagnetism</p>	<p>2 weeks 2 weeks 2 weeks</p> <p>1 week 1 week 1 week</p> <p>3 weeks 1 week</p> <p>1 week 1 week 2 weeks 2 weeks 1 week 2 weeks</p> <p>2 weeks 1 week</p>	<p>Low stakes assessments: A range of self, peer and teacher assessed tasks. These will include practical, numerical, literacy tasks and end of topic tests</p> <p>Cumulative: Students will complete a full paper 1 and two paper 2's for each science.</p> 

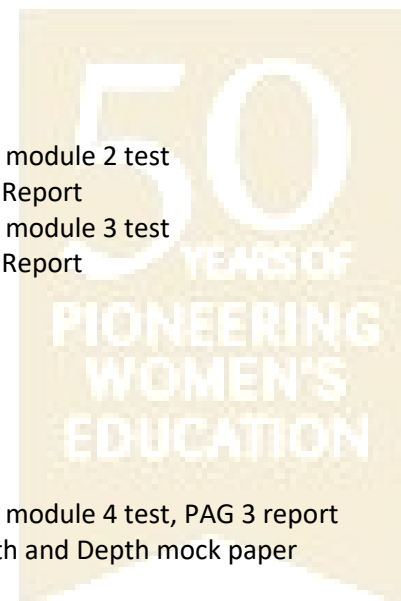
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		<p><u>Triple: Biology</u> <u>Autumn</u> B11: Hormonal Coordination B12: Homeostasis in action B13: Reproduction B14: Variation and Evolution B15: Genetics and Evolution</p> <p><u>Spring</u> B16: Adaptation, interdependence and competition B17: Organising an ecosystem B18: Biodiversity and ecosystems</p>	<p>2 weeks 2 weeks 3 weeks 5 weeks</p> <p>5 weeks 4 weeks</p>	<p>Low stakes assessments: A range of self, peer and teacher assessed tasks. These will include practical, numerical, literacy tasks and end of topic tests</p> <p>Cumulative: Students will complete a full paper 1 and two paper 2's.</p>
		<p><u>Triple Chemistry</u> <u>Autumn</u> C11: Polymers C13: The Earth's Atmosphere C8: Rates and equilibrium</p> <p><u>Spring:</u> C12: Chemical Analysis C14: The Earth's Resources C15: Using our Resources</p>	<p>2 weeks 3 weeks 4 weeks</p> <p>4 weeks 4 weeks 4 weeks</p>	<p>Low stakes assessments: A range of self, peer and teacher assessed tasks. These will include practical, numerical, literacy tasks and end of topic tests</p> <p>Cumulative: Students will complete a full paper 1 and two paper 2's.</p>
		<p><u>Triple Physics</u> <u>Autumn</u> P10: Forces and Motion P11: Forces and Pressure P12: Wave Properties P13: Electromagnetic waves</p> <p><u>Spring:</u> P14: Light P15: Electromagnetism P16: Space</p>	<p>3 weeks 4 weeks 3 weeks 3 weeks</p> <p>3 weeks 5 weeks 4 weeks</p>	<p>Low stakes assessments: A range of self, peer and teacher assessed tasks. These will include practical, numerical, literacy tasks and end of topic tests</p> <p>Cumulative: Students will complete a full paper 1 and two paper 2's.</p>

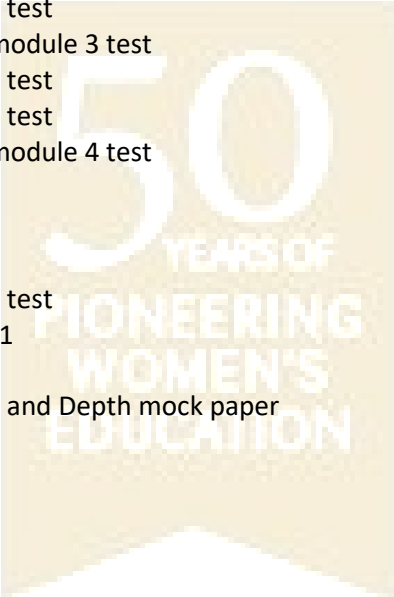


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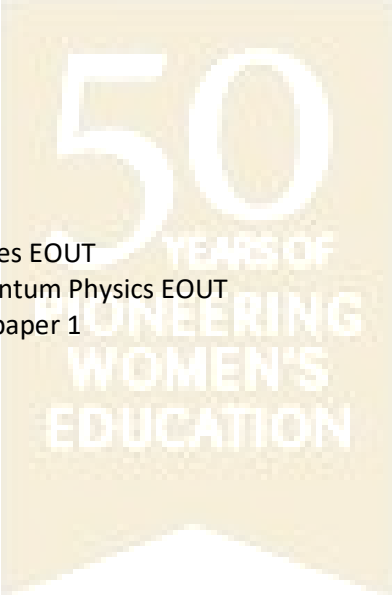
Year 12	<p>Students build upon their knowledge from KS4. They learn about the key concepts of each science detail and apply these to a range of unfamiliar contexts. They practise using technical equipment to complete PAGs. Students must follow a method and analyse a method to meet key competencies. Students develop their practical, mathematical and statistical skills.</p>	<p>Biology</p> <p>Autumn</p> <p>1.1: Development of practical skills 2.1 Cell Structure 2.2 Biological molecules 2.3 Nucleic acids 2.4 Enzymes 2.5 Biological membranes PAG 6 Thin layer chromatography PAG 9 Qualitative tests PAG 4 Rate of enzyme controlled reactions</p> <p>Spring</p> <p>2.6 Cell division 3.1 Exchange surfaces and breathing 3.3 Transport in plants 3.2 Transport in Animals 4.1 Communicable diseases PAG 8 Osmosis PAG 2 Heart dissection</p> <p>Summer</p> <p>4.2 Biodiversity 4.3 Classification and evolution 6.3 Biodiversity PAG 3 Sampling</p>	<p>2 weeks 3 weeks 2 weeks 2 weeks 2 weeks 2 weeks</p> <p>2 weeks 2 weeks 2 weeks 2 weeks 3 weeks 2 weeks</p> <p>2 weeks 2 weeks 3 weeks</p>	<p>Maths and stats test PAG 8 and 9 report 2.1 Enzymes EOUT PAG 4 and 8 report</p> <p>End of module 2 test PAG 8 Report End of module 3 test PAG 2 Report</p> <p>End of module 4 test, PAG 3 report Breadth and Depth mock paper</p>
	<p>Chemistry</p> <p>Autumn</p> <p>2.1 Amount of substance 2.1 Acids and Redox 2.2 Bonding and structure</p>	<p>2 weeks 2 weeks 2 weeks 4 weeks 1 week</p>	<p>Baseline test 2.1 Mini test PAG 1.2 PAG 2.2</p>	



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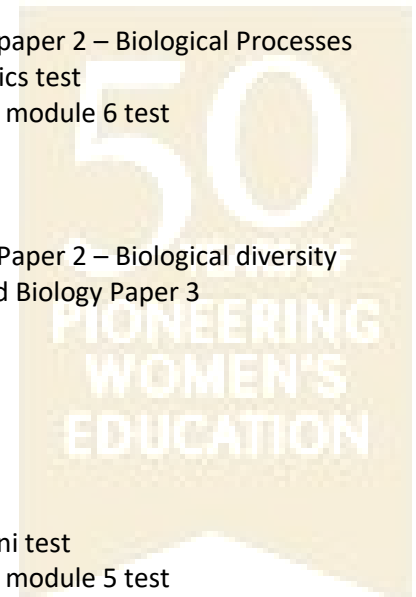
		<p>3.1 Periodicity 3.1 Qualitative analysis PAG 1.2 Determination of the relative atomic mass of magnesium PAG 2.2 Determination of the molar mass of an acid PAG 4.3 Identifying unknowns</p> <p>Spring 3.2 Enthalpy changes 5.1 Rates and Equilibrium 4.1 Basic concepts 4.2 Organic Synthesis PAG 3.1 Enthalpy determination of combustion PAG 5.3 Oxidation of alcohols</p> <p>Summer 4.2 Analytical Techniques 5.1 Rates, Equilibria, pH PAG 7.2 Identifying organic unknowns 1 PAG 6.1 Synthesis of aspirin PAG 10.1 Rates Iodine clock</p> <p>Physics Autumn 1.1 Working as a physicist 2.1 Mechanics 2.2 Mechanics 3.1 Electrical circuits Core practical 1 – Determine the acceleration of a freely-falling object</p>	<p>4 weeks 2 weeks 3 weeks 3 weeks</p> <p>3 weeks 3 weeks 1 week</p> <p>2 weeks 3 weeks 1 week 3 weeks 2 weeks 1 week</p>	<p>End of module 2 test 3.1 Mini test PAG 4</p> <p>3.2 mini test End of module 3 test 4.1 mini test 4.2 mini test End of module 4 test</p> <p>5.1 mini test PAG 10.1 PAG 7.2 Breadth and Depth mock paper</p> <p>Baseline test 2.1 Motion test 2.2 Energy test 2.3 mini test 3.1 Electrical quantities EOUT</p> 
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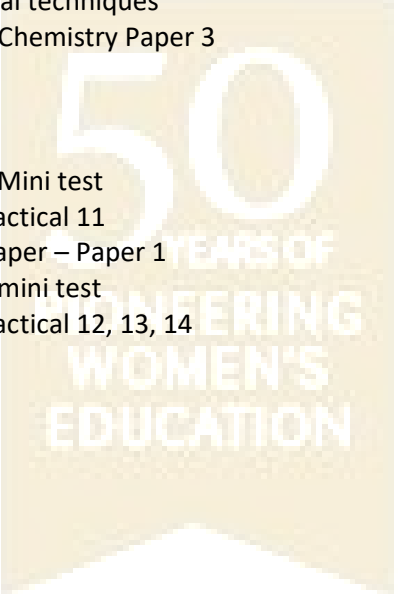
		<p>Core practical 2 Determine the electrical resistivity of a material</p> <p>Spring 3.2 Complete electrical circuits 4.1 Materials 5.1 Waves and particles 5.2 Behaviour of waves Core practical 3 Determine the e.m.f and internal resistance of an electrical cell Core practical 4 Use a falling-ball method to determine the viscosity of a liquid Core practical 5 – Determine the Young modulus of a material Core practical 6 determine the speed of sound in air using 2-beam oscilloscope, signal generator, speaker and microphone</p> <p>Summer 5.3 Waves and Particles 6.1 Further mechanics Core practical 9 Investigate the relationship between the force exerted on an object and its change of momentum Core practical 10 Use ICT to analyse collisions between small spheres, e.g. ball bearings on a table top Revision and Exam skills</p>	<p>2 weeks 3 weeks 3 weeks</p> <p>1 week 1 week 2 weeks</p> <p>3 weeks 3 weeks 2 weeks 2 weeks</p> <p>2 weeks</p>	<p>3.2 Electrical circuits EOUT 4.1 mini test 4.2 mini test AS Paper 1 5.1 mini test 5.2 mini test</p>  <p>5.3 waves EOUT 5.4 Quantum Physics EOUT AS Full paper 1</p>
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Year 13	<p>Students learn the fundamental skills and knowledge gained from year 12 and apply it to wider contexts. Students have the opportunity to hone n their practical skills through PAGs. Support is withdrawn gradually to help students develop independence.</p>	<p>Biology Autumn 5.1 Communication and Homeostasis 5.2 Excretion 5.3 Neuronal Communication PAG 11: Daphnia and HR PAG 12 Respiration rates in yeast</p> <p>Spring 5.4 Hormonal Communication 5.5 Plant and animal responses 6.1 Genetics and Ecosystems 6.2 Inheritance, cloning and biotechnology PAG 6 Effect of antibiotics on microbial growth</p> <p>Summer 6.3 Populations and Sustainability PAG 6 Effect of antibiotics PAG 9 pH change in yoghurt production Revision and exam skills</p> <p>Chemistry Autumn 5.1 – Rates, equilibrium 5.1 Acids, bases and buffers 5.2 Lattice enthalpy and entropy 5.2 Redox, electrode potentials 5.3 Transition Metals 6.1 Aromatic Compounds, carbonyls and acids PAG 9.1 The rate of decomposition of hydrogen peroxide PAG 10.2 Rates – thiosulfate and acid PAG 11.2 pH – titration curves</p>	<p>3 weeks 2 weeks 3 weeks 3 weeks 3 weeks</p> <p>2 weeks 4 weeks 2 weeks 2 weeks 2 weeks</p> <p>3 weeks 2 weeks</p> <p>3 weeks</p> <p>3 weeks 2 weeks 2 weeks 2 weeks 2 weeks</p>	<p>100 MCQ for E-C summer work Module 5.1.1 EOUT Module 5.1.2 EOUT Module 5.1.3 EOUT Module 5.1.4 EOUT Mock paper 1 (depth paper + module 5.1.1 – 5.1.5)</p> <p>Mock paper 2 – Biological Processes Statistics test End of module 6 test</p> <p>Mock Paper 2 – Biological diversity Unified Biology Paper 3</p> <p>5.2 mini test End of module 5 test Mock full paper 1 – Periodic Table and Energy</p>
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		<p>PAG 8.2 Electrochemical cells 2</p> <p>Spring 6.2 Nitrogen compounds, polymers and synthesis 6.2 Amino acids, amides and chirality 6.3 Analytical Techniques PAG 12.1 Investigating iron tablets</p> <p>Summer Revision and Exam skills</p> <p>Physics Autumn 7.1 Electric and magnetic fields Topic 7.2 Capacitors Topic 7.3 Electromagnetic effects Topic 8.1 Nuclear atom Topic 8.2 Particle accelerators Topic 8.3 Particle zoo Core practical 11 Use an oscilloscope or data logger to display and analyse the potential difference across a capacitor</p> <p>Spring 9.1 Thermodynamics 10.1 Space 11.1 Nuclear Radiation Core practical 12 Calibrate a thermistor in a potential divider circuit as a thermostat Core practical 13 Determine the specific latent heat of a phase change</p>	<p>3 weeks 3 weeks 2 weeks 2 weeks</p> <p>6 weeks</p> <p>2 weeks 2 weeks 2 weeks 2 weeks 2 weeks</p> <p>2 weeks 2 weeks 2 weeks 2 weeks 2 weeks</p> <p>2 weeks</p>	<p>Aromatics mini test Carbonyls mini test 6.1 Test 6.2 Mini test End of Module 6 test</p> <p>Mock full paper 2 – Synthesis and Analytical techniques Unified Chemistry Paper 3</p> <p>Topic 7 Mini test Core practical 11 Mock Paper – Paper 1 Topic 8 mini test Core practical 12, 13, 14</p> <p>Topic 9 mini test Topic 10 mini test Core practical 15 Topic 11 mini test</p> 
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		<p>Core practical 14 Investigate the relationship between pressure and volume of a gas at fixed temperature</p> <p>Summer 12.1 Gravitational fields 13.1 Oscillations Core practical 15 Investigate the absorption of gamma radiation by lead Core practical 16 Determine the value of an unknown mass using resonant frequencies of the oscillation of known masses Exam skills and Revision</p>	<p>2 weeks 2 weeks</p> <p>6 weeks</p>	<p>Topic 12 mini test Core practical 16 A2 Paper 2 Full Paper A2 Paper 3 full paper</p>
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