

## Key Stage 5 Curriculum Overview for Biology

Year	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
<b>12</b>	<p>TEACHER A: Study of biological molecules including saccarides, proteins (inc enzymes) and lipids.</p> <p>TEACHER B: Study of cellular biology: structure and function eukaryotes, prokaryotes and viruses</p>	<p>TEACHER A: Continued study of biological molecules including DNA, water, ATP and inorganic ions</p> <p>TEACHER B: Transport across cell membranes including diffusion, active transport and osmosis</p>	<p>TEACHER A: Exchange of substances in organisms including humans, fish and insects</p> <p>TEACHER B: Study of the immune response and the medical use of antibodies</p> <p>DNA as a code for the production of proteins</p>	<p>TEACHER A: Cardiovascular system from blood, vessels, the heart, the cardiac cycle</p> <p>TEACHER B: Study of mutations, creation of gametes and causes of variation in populations</p>	<p>TEACHER A: Transport systems in plants including transpiration and translocation</p> <p>TEACHER B: Competition, species diversity, human impact on diversity</p>	<p>TEACHER A: Begin teaching A2 content: Photosynthesis</p> <p>TEACHER B: Begin teaching A2 content: Energy in ecosystems</p>
	<p><b>Assessments</b></p> <ul style="list-style-type: none"> <li>Formal assessment at the end of each chapter. Method varied between multi-choice knowledge based questions; past exam questions and/or mini essays.</li> <li>First six assessed practicals covered in Year 12</li> </ul>				<p><b>Assessments</b></p> <p>Continued use of formal end of unit assessment Year 12 Mock exams in June – 2 papers: one covering TEACHER A material, one covering TEACHER B material. Each with a 10 mark mini essay</p>	
<b>13</b>	<p>TEACHER A: Energy and nutrient cycles in ecosystems. Stages of cellular respiration</p> <p>TEACHER B: Populations and ecosystems</p>	<p>TEACHER A: Organisms' response to stimuli: nervous system focus</p> <p>TEACHER B: Principles of photosynthesis</p> <p>Genetics and inheritance</p>	<p>TEACHER A: Organisms' response to stimuli: homeostasis focus</p> <p>TEACHER B: Genetics, variation and evolution</p> <p>Genetics and cancer</p>	<p>TEACHER A Whole course revision and exam preparation</p> <p>TEACHER B: Genetic technology</p> <p>Whole course revision and exam preparation</p>	<p>TEACHER A/B Whole course revision and exam preparation</p>	
	<p><b>Assessments</b></p> <ul style="list-style-type: none"> <li>Formal assessment at the end of each chapter. Assessments based on past paper questions.</li> <li>Practicals 7-12 covered in Year 13</li> <li>Internal mock exams in December and Feb/March</li> </ul>				<p><b>Assessments</b></p> <p>Formal examinations: Paper 1 – 2 hours: AS Content Paper 2 – 2 hours: A2 Content Paper 3 – 2 hours: Whole course content. Focus on data analysis plus 25 mark synoptic essay</p>	