

	Autumn Term	Spring Term	Summer Term
ear 12	<ul> <li>Curriculum and Skills:</li> <li>2.1.1. Cell structure</li> <li>2.1.2. Biological molecules</li> <li>2.1.3. Nucleotides and nucleic acid</li> <li>2.1.4. Enzymes</li> <li>2.1.5. Biological membranes</li> <li>2.1.6. Cell division, cell diversity and cellular organisation</li> <li>Maths skills:</li> <li>Standard deviation</li> <li>T- test</li> <li>% change</li> <li>Rates of reaction</li> <li>Graphical work</li> <li>Magnification calculations</li> <li>Practical Skills:</li> <li>Use of a light microscope at high power and low power, including use of a graticule.</li> <li>How to follow written procedures</li> <li>How to safely use a range of practical equipment and materials</li> <li>How to make and record observations</li> <li>How to produce scientific drawings from observations with annotations.</li> <li>How to present information and data in a scientific way</li> <li>How to keep appropriate records of experimental activities</li> <li>How to use a colorimeter.</li> <li>How to use qualitative reagents to identify biological molecules</li> </ul>	Curriculum and Skills: 3.1.1. Exchange surfaces and breathing 3.1.2. Transport in plants 3.1.3. Transport in plants 4.2.1. Biodiversity Maths: skills: Spearman's Rank calculations T- tests Uncertainty Simpson's Index Surface area : Volume ratio Practical Skills: • To repeat the skills listed in term 1 • To improve scientific drawings • To safely use of instruments for dissection of an animal or plant organ • How to use a potometer	<ul> <li>Curriculum and Skills:</li> <li>4.1.1. Communicable disease</li> <li>4.2.2. Classification and Evolution</li> <li>Maths: skills:</li> <li>All mathematical work reviewed</li> <li>Mark release recapture</li> <li>Chi- squared</li> <li>Practical Skills:</li> <li>To review all practical skills and</li> <li>To use sampling techniques in fieldwork</li> <li>To use microbiological aseptic techniques, including the use of agar plates and broth</li> <li>To safely and ethically use organisms to measure animal responses</li> <li>To use online and offline research skills including websites, textbooks and other printed scientific sources of information</li> <li>Correctly cite sources of information</li> <li>Applies investigative approaches &amp; methods when using instruments &amp; equipment.</li> <li>6.3.1. Ecosystems</li> <li>6.3.2. Populations</li> </ul>
	Assessment: Transition test- GCSE content and work set over the summer (transition summer work) Autumn test- Module 2 content	Assessment: Mock exam- All of Module 2 content Module 3 test- Animal transport, Plant transport and Gas Exchange surfaces	Assessment: Module 4 test- Biodiversity, Disease, Classification and evolution Summer Mock exam- Modules 1- 4

	Curriculum and Skills: 5.1.1 Communication & Homeostasis 5.1.2 Excretion 5.1.3 Neuronal Communication	Curriculum and Skills: 6.1.1 Cellular control 6.1.3. Manipulating genomes	Curriculum and Skills: 6.2.1 Cloning & biotechnology 6.1.2 Patterns of Inheritance
	5.1.4 Hormonal Communication 5.1.5 Animal & plant Responses	Maths skills: To review all maths skills already taught	Maths skills: To review all maths skills already taught
	5.2.1 Photosynthesis	To review an matrix skins aready tadgite	to review an matrix skins an easy taught
	Module 5.2.2. Respiration	Practical Skills:	Practical Skills:
	Maths skills:	• To use appropriate software and tools to process data,	To review all practical skills already taught
	To review all maths skills already taught	carry out research and report findings	
Year 13	<ul> <li>Practical Skills:</li> <li>To safely and ethically use organisms to measure physiological functions</li> <li>To practically separate biological compounds using thin layer chromatography</li> </ul>		
	Assessment:	Assessment:	Assessment:
	September Mock exam – Modules 1- 4	A level Mock exam- modules 1,2,3 & 5	A level Mock exam – all modules
	Populations and Ecosystems test Respiration test	A level Mock exam- Modules 1,2,4 & 6	Final exams- Paper 1, Paper 2, & Paper 3