

	Autumn Term	Spring Term	Summer Term
Year 12	Curriculum and Skills: 2.1.1. Cell structure 2.1.2. Biological molecules 2.1.3. Nucleotides and nucleic acid 2.1.4. Enzymes 2.1.5. Biological membranes 2.1.6. Cell division, cell diversity and cellular organisation Maths skills: Standard deviation T- test % change Rates of reaction Graphical work Magnification calculations Practical Skills: • Use of a light microscope at high power and low power, including use of a graticule. • How to follow written procedures • How to safely use a range of practical equipment and materials • How to make and record observations • How to make and record observations with annotations. • How to use of laboratory glassware apparatus for a variety of experimental techniques- to include serial dilutions • How to keep appropriate records of experimental activities • How to use a colorimeter. • How to use qualitative reagents to identify biological molecules	Curriculum and Skills: 3.1.1. Exchange surfaces and breathing 3.1.2. Transport in animals 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	 Curriculum and Skills: 4.1.1. Communicable disease 4.2.2. Classification and Evolution Maths: skills: All mathematical work reviewed Mark release recapture Chi- squared Practical Skills: To review all practical skills and To use sampling techniques in fieldwork To use microbiological aseptic techniques, including the use of agar plates and broth To safely and ethically use organisms to measure animal responses To use online and offline research skills including websites, textbooks and other printed scientific sources of information Correctly cite sources of information Applies investigative approaches & methods when using instruments & equipment. 6.3.1. Ecosystems 6.3.2. Populations
	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:	Curriculum and Skills:	Curriculum and Skills:
	5.1.1 Communication & Homeostasis	6.1.1 Cellular control	6.2.1 Cloning & biotechnology
	5.1.2 Excretion		6.1.2 Patterns of Inheritance
	5.1.3 Neuronal Communication	6.1.3. Manipulating genomes	
	5.1.4 Hormonal Communication	Maths skills:	Maths skills:
	5.1.5 Animal & plant Responses	To review all maths skills already taught	To review all maths skills already taught
	5.2.1 Photosynthesis		
	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	Practical Skills:		
	 To safely and ethically use organisms to measure 		
	physiological functions		
	• To practically separate biological compounds using thin		
	layer chromatography		
-	Accessment.	Assessment	Assessment
	Sentember Mock exam – Modules 1- 4	A level Mock exam- modules 1 2 3 & 5	A level Mock exam – all modules
	Populations and Ecosystems test	A level Mock exam- Modules 1, 2, 3 & 5	Final exams- Paner 1 Paner 2 & Paner 3
	Respiration test		