

Key Stage 4 BIOLOGY: Year 9

Overall Curriculum Goals – to develop an understanding of cells as the building blocks of life, and the processes by which substances can move in and out of biological molecules.					
Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
				B1: Cells	
Key Vocabulary/Concepts/Ideas		Key Vocabulary/Concepts/Ideas		Key Vocabulary/Concepts/Ideas	
				<ul style="list-style-type: none"> • Microscopy skills • Organelles and their functions • Classifying cells • Mitosis & stem cells • Diffusion and osmosis 	
CIAG		CIAG		CIAG	
				Life scientist Medicine Biomedical scientist	

Key Stage 4 BIOLOGY: Year 10

Overall Curriculum Goals – To understand how organisms get energy for life, how they function and keep healthy, and how multiple organisms interact in an ecosystem					
Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
B2 Organisation		B3 Plant Biology	B4 Respiration	B5 Infection and Response	B6 Ecosystems
Key Vocabulary/Concepts/Ideas		Key Vocabulary/Concepts/Ideas		Key Vocabulary/Concepts/Ideas	
<ul style="list-style-type: none"> • Organs and organ systems of the human body • Lifestyles and health • Coronary heart disease and cancer • Enzymes and digestion 		<ul style="list-style-type: none"> • Plant tissues • Transpiration and translocation • Photosynthesis 	<ul style="list-style-type: none"> • Aerobic and anaerobic respiration 	<ul style="list-style-type: none"> • Bacterial and viral disease • Immunity • Antibiotics & drug development 	<ul style="list-style-type: none"> • Interdependence in ecosystems • The carbon cycle and the water cycle
CIAG		CIAG		CIAG	
Medicine Dietician Biochemist Drug development Sports scientist		Agriculture Conservation Sports scientist Personal trainer		Public Health Medicine / dentistry Drug development Conservation Agriculture Pharmacy	

Key Stage 4 BIOLOGY: Year 11

Overall Curriculum Goals – To understand the role of hormones as control mechanisms, and how species change over time through inheritance and evolution					
Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
B7 Humans and environment	B8 Homeostasis	B9 Inheritance	B10 Evolution	Revision, consolidation, terminal assessment	
Key Vocabulary/Concepts/Ideas		Key Vocabulary/Concepts/Ideas		Key Vocabulary/Concepts/Ideas	
<ul style="list-style-type: none"> • Biodiversity, pollution and global warming • Food security 	<ul style="list-style-type: none"> • Controlling temperature, blood glucose, water balance • Hormones and the menstrual cycle 	<ul style="list-style-type: none"> • Sexual and asexual reproduction • DNA and protein synthesis • Genetics 	<ul style="list-style-type: none"> • Evolution • Classification • Genetic engineering 		

CIAG	CIAG	CIAG
Conservation Agriculture Medicine Sports scientist Dietician	Public health Medicine Conservation Drug development Biomedical scientist	