

Biology Year 11	Curriculum intent: The Science curriculum across key stage 4 enables students to further develop their scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics. It enables them to develop their understanding of the nature, processes and methods of science that help them to answer scientific questions about the world around them. This then equips them with the scientific skills required to understand the uses and implications of science today and in the future.											
Term	1				2				3			
Interleaving	Key knowledge from previously studied topics				Key knowledge from previously studied topics							
Knowledge Separate Biology	Ecology (2) Homeostasis and Response				Homeostasis and Response Inheritance and Variation				Revision			
Understanding Separate Biology	Apply Knowledge in a range of different contexts, opportunities to include: Studying factors that affect food security Studying the hormonal system and how it works to control internal body conditions. Exploring the structure of the brain and eye. Investigating a factor that affects reaction time.				Apply Knowledge in a range of different contexts, opportunities to include: Comparing asexual and sexual reproduction. The role of DNA in variation within species, inheritance of characteristics and how DNA can be used to study how species have evolved. Exploring how the theory of evolution by natural selection developed.				Revision to include revisiting key concepts, working scientifically and required practicals. Further practise at applying knowledge and understanding to a variety of exam questions. Refining exam technique.			
Knowledge Combined Biology	Ecology (2) Homeostasis and Response				Homeostasis and Response Inheritance and variation				Revision			
Understanding Combined Biology	Apply Knowledge in a range of different contexts, opportunities to include: Evaluating human impact on the environment. Explaining how the hormonal and nervous systems control the body. Investigating a factor that affects reaction time.				Apply Knowledge in a range of different contexts, opportunities to include: The role of DNA in variation within species. Inheritance of characteristics and how DNA can be used to study how species have evolved. Explaining why the fossil record is incomplete.				Revision to include revisiting key concepts, working scientifically and required practicals. Further practise at applying knowledge and understanding to a variety of exam questions. Refining exam technique.			
Skills	Scientific thinking Experimental skills Analysis and evaluation Scientific vocabulary Scientific thinking Experimental skills Analysis and evaluation Scientific vocabulary Scientific thinking Experimental skills Analysis and evaluation Scientific vocabulary											
Assessment	End of topic Tests				End of topic Tests							