

Biology Year 10	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				Key knowledge from previously studied topics			
Knowledge Separate Biology	Organisation, Non-Communicable diseases Plants				Bioenergetics Infection and Response				Ecology			
Understanding Separate Biology	Apply Knowledge in a range of different contexts, opportunities to include: Exploring the importance of enzymes in the process of digestion. Investigating how pH can affect enzyme action. Explaining the impact of lifestyle choices on health.				Apply Knowledge in a range of different contexts, opportunities to include: Explaining the importance of respiration in all living organisms. Exploring the response of animals and plants to pathogens. Exploring how the human body defends against pathogens. Explaining why there is a drug testing protocol. Exploring the uses of monoclonal antibodies.				Apply Knowledge in a range of different contexts, opportunities to include: Investigating a factor which affects the distribution of a species.			
Knowledge Combined Biology	Organisation, Non-Communicable diseases Plants				Bioenergetics				Ecology			
Understanding Combined Biology	Apply Knowledge in a range of different contexts, opportunities to include: Exploring the importance of enzymes in the process of digestion. Investigating how pH can affect enzyme action. Explaining the impact of lifestyle choices on health.				Apply Knowledge in a range of different contexts, opportunities to include: Explaining the importance of respiration in all living organisms. Exploring how the body responds to exercise.				Apply Knowledge in a range of different contexts, opportunities to include: Investigating a factor which affects the distribution of a species.			
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				End of topic Tests			