

<b>Biology Year 10</b>	<b>Curriculum intent:</b> 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.											
<b>Term</b>	<b>1</b>				<b>2</b>				<b>3</b>			
<b>Interleaving</b>	Key knowledge from previously studied topics				Key knowledge from previously studied topics				Key knowledge from previously studied topics			
<b>Knowledge Separate Biology</b>	Organisation, non-communicable diseases  Plants				Bioenergetics  Infection and response				Ecology			
<b>Understanding Separate Biology</b>	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.			
<b>Knowledge Combined Biology</b>	Organisation, non-communicable diseases  Plants				Bioenergetics				Ecology			
<b>Understanding Combined Biology</b>	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.			
<b>Skills</b>	<div>Scientific thinking</div> <div>Experimental skills</div> <div>Analysis and evaluation</div> <div>Scientific vocabulary</div> <div>Scientific thinking</div> <div>Experimental skills</div> <div>Analysis and evaluation</div> <div>Scientific vocabulary</div> <div>Scientific thinking</div> <div>Experimental skills</div> <div>Analysis and evaluation</div> <div>Scientific vocabulary</div>											
<b>Assessment</b>	End of topic Tests				End of topic Tests				End of topic Tests			