



## The Fisher Way: Curriculum



*The Fisher Way aims to educate and inspire with joy, faith and love because we are an inclusive Catholic community.*

**Successful and resilient** learners who aspire to and achieve excellence

**Confident** individuals who can explore and communicate effectively

**Responsible** citizens who are active, loving and wise in all their endeavours

Subject	Biology
Year Group	Year 11
Intent	<p><b><u>Successful and resilient learners:</u></b> who are able to use their biological knowledge and their scientific skills to investigate the world around them and solve problems associated with the living world.</p> <p><b><u>Confident individuals:</u></b> who can apply their knowledge of organ systems, bioenergetics, genetics and the ecological interactions between species to understand and articulate what happens in the wider world.</p> <p><b><u>Responsible citizens:</u></b> who are able to distinguish between what we CAN do as scientists and what is morally right for us to do as human beings. Pupils should be able to suggest solutions to some of the worlds problems such as global</p>

	warming and pollution and should be able to evaluate and debate the issues around current global issues such as Genetic Engineering, IVF, Pandemics and Stem cell research. They should be able to use their understanding to help them make informed decisions in later life to benefit both themselves and the wider world.					
<b>Narrative</b>	<p>They study interactions between species and within a species in more detail looking at the impact of this. They will look at Biodiversity, the impact that humans have on the environment and how this could be made more sustainable. They will also plan and analyse ecological experiments.</p> <p>This builds on the work done in Year 7 B2 topic and year 10 where pupils looked at variation, evolution and classification. These topics also apply the knowledge of respiration and photosynthesis studied in Year 10.</p> <p>This topic will be an important foundation for the Ecology topics in A level Biology as well as the Working Scientifically skills.</p>					
<b>Half term</b>	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Knowledge (topics studied)</b>	B14 Adaptations, interdependence and competition	B14 Adaptations interdependence and competition, B15 Biodiversity	B15 Biodiversity and ecosystems	Revision	Revision	
<b>Key skills</b>	Using Quadrats and Transects	Deforestation	Global warming	Application of knowledge and understanding, use of mathematical skills and scientific evaluation skills to approach a range of question types. Development of organisational and study skills.	Application of knowledge and understanding, use of mathematical skills and scientific evaluation skills to approach a range of question types. Development of organisational and study skills.	

<b>Cultural capital</b>	Appreciating biodiversity.	Maintaining biodiversity	How it is important to husband resources and recycle effectively.	Transferable organisational and study skills, along with the ability to analyse individual strengths and weaknesses. Development of a robust approach to personal failure and success.	Transferable organisational and study skills, along with the ability to analyse individual strengths and weaknesses. Development of a robust approach to personal failure and success.	
<b>Assessment</b>	End of topic test higher and foundation	Mock Exams	End of topic test higher and foundation	GCSE's	GCSE's	