



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	Science
Year Group	Year 7 Biology
Intent	<p><u>Successful and resilient learners:</u> 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><u>Confident individuals:</u> 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><u>Responsible citizens:</u> 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.					
Narrative	<p>This Year students study the basic structures and functions of animal and plant cells, muscles, skeleton and reproduction. They will also look at the interaction between organisms in an ecosystem and variation between organisms of the same and different species. KS2 students study flowers and reproduction in plants, the human body including skeleton & muscles, changes in the human body & habitats and food chains.</p> <p>This will continue into Year 8 when students look at different organ systems and respiration/photosynthesis.</p> <p>In Year 9 students will move onto the advanced structure and function of cells, the organ systems they are involved in plants and animals. In Year 10 and 11 students will look at more specialised cells and organ systems in different Biological contexts. In Year 10 and 11 interactions within and between species are studied in more detail.</p>					
Half term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Knowledge (topics studied)	Skills course that covers laboratory skills	B1 - Cells, movement, reproduction		B2 Interdependence and variation		
Key skills	Laboratory skills - safety, practical set up, measurements, data handling, maths skills (microscope magnification).	Laboratory skills - safety, practical set up, measurements, data handling, maths skills		Food chains and webs, interaction and relationships between organisms - research and application of knowledge. IT skills, data analysis		
Cultural capital	History of the development of the microscope (light and EM) and advances this led to. Puberty and emotions/feelings.	Life beyond Earth, space travel		Human impact on the environment. Greta Thornberg		

	Relationships and parenting					
Assessment	Year 7 skills assessment	B1 end of topic test		B2 end of topic test		End of Year Assessment