



## 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

<b>Subject</b>	Astronomy
<b>Year Group</b>	Year 11
<b>Intent</b>	<p><b>Successful and resilient learners:</b> who can plan and conduct observations over a prolonged period, reacting to unforeseen circumstances to provide high quality reports. These observations will help explain the structure and evolution of the universe.</p> <p><b>Confident individuals:</b> who can explain features of not only the night sky but also of phenomenon which occur within our solar system and beyond.</p>

	<b>Responsible citizens:</b> whose understanding of the cosmos elevates them to celestial heights.					
<b>Narrative</b>	<p>Learners will complete the course early by studying how the Earth fits in to the universe and how we can predict the future of the universe using redshift.</p> <p>This links to the waves topics in Physics where pupils learn about waves and the Doppler effect.</p>					
<b>Half term</b>	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Knowledge (topics studied)</b>	Stellar Evolution	Our place in the galaxy	Cosmology	Review and revise	Review and revise	Review and revise
<b>Key skills</b>	<p>Know how stars are catalogued. Describe and explain the principal stages and timescales of stellar evolution for stars of similar mass to the Sun and greater mass.</p>	<p>Know the appearance of the Milky Way as seen from Earth and from outside the galaxy. Know the composition of the Local Group and classify galaxies according to the Hubble system.</p>	<p>Use the redshift formula and explain evidence for the expanding universe. Understand how this supports both Big Bang and Steady State theories. Describe other evidence for the Big Bang.</p>	<p>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.</p>	<p>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.</p>	<p>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.</p>
<b>Cultural capital</b>	<p>An understanding of how and why stars evolve, and the evidence for the different stages in their life cycles.</p>	<p>An understanding of the Milky Way, our place in it and how it fits into the Universe. An awareness that there are different types of galaxies and the main</p>	<p>Understanding of red-shift and Hubble's law. Awareness of the evidence and explanation for the expanding universe. Consideration of</p>	<p>Transferable organisational and study skills, along with the ability to analyse individual strengths and weaknesses. Development of a robust approach to</p>	<p>Transferable organisational and study skills, along with the ability to analyse individual strengths and weaknesses. Development of a robust approach to</p>	<p>Transferable organisational and study skills, along with the ability to analyse individual strengths and weaknesses. Development of a robust approach</p>

		theories for their evolution.	the possible future fate of the universe.	personal failure and success.	personal failure and success.	to personal failure and success.
Assessment	End of Topic Test	Mock Exam 1	End of topic test	Mock Exam		GCSE Exam