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	Mathematics
Year Group	Year 12
Intent	**Successful and resilient learners** who have developed their fluency and curiosity in mathematics and can adapt their skills to the work around them. **Confident individuals** who can reason mathematically and use their math skills to solve problems in an eloquent way. **Responsible citizens** who are learned and realise the importance of maths in the world around them even when they may not be using it in their day to day lives.
Narrative	

	By the end of Year 12 students will have a good grasp on all topics for AS level Maths. They will have made use of all their appropriate skills from GCSE This will enable them to confidently move forwards to Year 13 and their A level exam with confidence.					
Half term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Knowledge (topics studied)	Pure Algebraic Expressions Quadratics Graphs and transformations Equations and Inequalities	Pure Coordinate Geometry Algebraic Methods Circles Vectors	Pure Binomial Expansion Differentiation Integration Trig Ratios	Pure Exponentials and Logs Trig Identities	Mechanics and Stats Modelling and Mechanics Constant acceleration Data Collection Measures and Location of spread Representation of data	Mechanics and Stats Forces and Motion Variable Acceleration Correlation Probability Statistical Distributions Hypothesis testing
Key skills	Calculations Reasoning Accuracy Spatial Awareness Understanding Recall of facts and application of knowledge. Manipulation of Algebra	Calculations Reasoning Accuracy Spatial Awareness Understanding Recall of facts and application of knowledge. Manipulation of Algebra	Calculations Reasoning Accuracy Spatial Awareness Understanding Recall of facts and application of knowledge. Manipulation of Algebra	Calculations Reasoning Accuracy Spatial Awareness Understanding Recall of facts and application of knowledge. Manipulation of Algebra	Calculations Reasoning Accuracy Spatial Awareness Understanding Recall of facts and application of knowledge. Manipulation of Algebra	Calculations Reasoning Accuracy Spatial Awareness Understanding Recall of facts and application of knowledge. Manipulation of Algebra

Cultural capital	Use of maths in modelling situations for science and the world around us.	Use of maths in modelling situations for science and the world around us.	Use of maths in modelling situations for science and the world around us. Maxima and Minima solutions in real life situations Careers within the armed forces would need to calculate positions or locations for things such as search and rescue. Discuss in class and use Trigonometry and bearing questions from A Level	Use of maths in modelling situations for science and the world around us. Use of growth and decay models COVID	Use of maths in modelling situations for science and the world around us. Careers such as meteorologists statisticians and scientists need to analyse data. Discuss in class and use the large data set.	Use of maths in modelling situations for science and the world around us.
Assessment	Diagnostic test	Unit test	Unit test	Unit test	Unit test	End of Year test