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 8
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	

	Year 8 follow the White Rose scheme of learning which is followed by many of our feeder primaries. This ensures their journey is a continuous one from year 6 through to year 9.					
Half term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Knowledge (topics studied)	Speed Distance Time Properties of Number	Ratio Proportion and Scale Algebraic Manipulation	Coordinates and Graphs Multiply and Divide Fractions Summetry and Reflection	Area Volume and Density Equations and Inequalities Percentages	Indices Standard Form Interpret and Represent Data	Angles in parallel lines and polygons Tables and Probabiltiy Circles
Key skills	A growing sense of numerical calculations and fluent use of these with or without a calculator. Spatial Awareness. Understanding factors and how to find them. Geometrical relationships of lines and 2D shapes	Working out percentages in a variety of contexts. Spatial awareness	Understanding the difference between area and perimeter	Working with algebra fluently and flexibly at a level appropriate to the learner at this stage	Having a good sense of 'fractioness' understanding that a half is relative to whatever the whole is. if the whole is 1 then a half is equivalent to 0.5 but if the whole is not then the same cannot be said.	Understanding how representing data can be useful but also misleading //solving equations with fluency
Cultural capital and careers	Ratio is applied in currency exchanges and in composition of recipes.	Rene Descartes and his history Probability and it's link to risk, investment and insurance premiums	History of algebra, why we use it, why x, etc. Fibonacci Sequence and its links to nature	Physical quantities vary in size; biology - microscopic; astronomy – light years. Standard index form allows us to appropriately display very large or small quantities.	The discovery of pi Erestothnese estimated the circumference of the earth	Looking at how data in the media can be used to advertise, mislead, manipulate.

		Looking at how data in the media can be used to advertise, mislead, manipulate.	Musical Scales are a form of sequence	Percentages are visually convenient in finance and marketing/sales. Careers Scientists Astronomy	Design and Construction of Structures Symmetry in snowflakes and other areas of nature Careers Architects Engineers Environmentalists	Interpretation of data influencing public/institutional policies and medical publications.
Assessment	End of Topic Tests End of September – Year 7 Summer Core Paper (White Rose)	End of Topic Tests	End of Topic Tests Start of February Year 8 Autumn – All sets do Core paper and either Foundation/Higher	End of Topic Tests	End of Topic Tests Start of July Year 8 Spring – All sets do Core paper and either Foundation/Higher	End of Topic Tests