St Mary's CE High School Curriculum Map 2022-23



Subject: Mathematics Foundation tier Year: 11

Mathematics is an interconnected subject in which students need to be able to move fluently between representations of mathematical ideas. The programme of study is organised into apparently distinct domains, but students should build on key stage 3 and connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. They should also apply their mathematical knowledge in science, geography, computing and other subjects.

The curriculum is taught through the mathematical strands of: Number and Ratio, Algebra, Geometry and Measures, Statistics and Probability

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
CONTENT Declarative / core / powerful Knowledge – 'Know What'	Sequences and graphs	Proportional reasoning Similarity Bounds and errors Positional vectors	Revision	Revision	Revision and public exams	Revision and public exams
Intent	Sequences and graphs share similar themes and putting these topics together can help make links with these topics.	Proportional reasoning and similarity both share common themes and are an important aspect of GCSE maths so they are specifically getting recapped here. These two final topics are areas that are typically forgotten so they have been left as the last topics to cover	Students will spend this term working on bespoke revision of topics based on the individual needs of students and classes. Topics covered may vary by class.	Students will spend this term working on bespoke revision of topics based on the individual needs of students and classes. Topics covered may vary by class.	Students will spend this term working on bespoke revision of topics based on the individual needs of students and classes. Topics covered may vary by class.	Students will spend this term working on bespoke revision of topics based on the individual needs of students and classes. Topics covered may vary by class.
Skills Procedural Knowledge – 'Know How'	Continue a linear pattern Find a position to term rule Use a position to term rule to find the term at any position or decide if a number appears in the pattern	Work with direct proportion in a variety of context including pie charts, metric conversions, currency conversions, similar shapes, enlargements Work with inverse proportion				

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		Find lower and upper		
	Find missing terms in	bounds of numbers		
	Fibonacci, geometric of			
	quadratic style	Add or subtract column		
	sequences	vectors		
	Plot graphs of	Find a scalar multiplier of a		
	quadratics	vector		
	Use a quadratic graph	Form vector expressions		
	to solve an equation	from a diagram		
	Use equations of lines			
	to solve problems			
	Final annuation of			
	Find equations of			
Kov Overtiens	Cive me three	What number is a factor 0		
key Questions	Give me three	and 62		
	which is parallel to			
	which is parallel to			
	What is the gradient of			
	a line with an equation			
	of			
Assessment	Students will be	Students will be assessed		
	assessed through a	through a retrieval quiz		
	retrieval quiz every 2	every 2 weeks in class. A		
	weeks in class. A half	half termly assessment will		
	termly assessment will	be completed in class that		
	be completed in class	covers all the content		
	that covers all the	taught within the half term.		
	content taught within			
	the half term.			
Links to	STEM, Finance	Shopping (what is best value		
careers/wider		for money)		
world				
		Currency conversions		