



St Mary's CE High School Curriculum Map 2023 -24

Mathematics Year 11 Foundation Tier

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 1a	Autumn 1b	Spring 2a	Spring 2b	Summer 3a	Summer 3b
CONTENT <i>Declarative / core / powerful Knowledge – ‘Know What’</i>	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	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.



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		left as the last topics to cover				
Skills <i>Procedural Knowledge – 'Know How'</i>	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 Find missing terms in Fibonacci, geometric or quadratic style sequences Plot graphs of quadratics Use a quadratic graph to solve an equation Use equations of lines to solve problems	Work with direct proportion in a variety of context including pie charts, metric conversions, currency conversions, similar shapes, enlargements Work with inverse proportion Find lower and upper bounds of numbers Add or subtract column vectors Find a scalar multiplier of a vector Form vector expressions from a diagram				



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	Find equations of parallel lines					
Key Questions	Give me three examples of a line which is parallel to... What is the gradient of a line with an equation of...	What number is a factor 9 and 6?				
Assessment	Students will be assessed on a Diagnostic quiz at the end of each unit and a retest to improve any gaps in learning. A half termly assessment will be completed in class covering content covered this half term, and previous topics covered at St. Mary's	Students will be assessed on a Diagnostic quiz at the end of each unit and a retest to improve any gaps in learning. A half termly assessment will be completed in class covering content covered this half term, and previous topics covered at St. Mary's				



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Links to careers/wider world	STEM, Finance	Shopping (what is best value for money) Currency conversions				
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