



Mathematics Higher



Archdiocese of Liverpool

Curriculum intent:

It is the intention of St Gregory's Mathematics department to deliver a curriculum that will develop the skills set out in the National curriculum and promote an appreciation of Mathematics as a creative and highly interconnected discipline providing the solution to some of history's most intriguing problems. Aiming to provide students with a sense of enjoyment and curiosity about the subject together with an appreciation of the beauty and power of Maths in different cultures.

We endeavour to provide support across a range of subjects with an emphasis on problem-solving and developing Mathematical fluency across the whole school curriculum, narrowing gaps that students may have with the basic numeracy skills essential within everyday life.

Year 11 (H)

	Content	Concepts and Skills
TERM 1	Multiplicative reasoning Surds Similarity and congruence in 2D and 3D Further Trigonometry Changing the subject of formulae, functions Algebraic fractions Solving equations arising from algebraic fractions, proof Collecting data and Histograms Cumulative frequency, box plots Circle Theorems and circle geometry	<ul style="list-style-type: none"> • knowledge of core principles • application of skills • problem solving • evaluation • group work • peer coaching • revision skills • examination technique
TERM 2	Sketching graphs, graphs of circles, cubes and quadratics Quadratics, expanding more than two brackets Reciprocal and exponential graphs; Gradient and area under graphs Vectors and geometric proof	<ul style="list-style-type: none"> • knowledge of core principles • application of skills • problem solving • evaluation • group work • peer coaching • revision skills • examination technique
TERM 3	Examination preparation	<ul style="list-style-type: none"> • knowledge of core principles • application of skills • problem solving • evaluation • group work • peer coaching • revision skills • examination technique

