Mathematics

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 9

	Content	Concepts and Skills
TERM 1	Number: Place value and calculation Fractions, decimals and percentages Algebra: Expressions, Solving equations and inequalities Geometry: Angles	• multiplication and division of decimals • expand double brackets and simplify • solve equations with fractions • solve advanced inequalities • use angle properties on parallel lines and polygons
TERM 2	Algebra: Patterns and formulae Graphs and functions Geometry: Area, perimeter and volume, compound measures Ratio and proportion Number: Calculate with fractions and percentages	• find nth term rule • draw non-linear graphs • find areas of advanced 2D shapes • find volume of cones and prisms • solve density and pressure problems • solve compound interest and reverse percentage problems • add, subtract, multiply and divide mixed numbers
TERM 3	Probability and Statistics: Presenting and measuring data Geometry: Transformations Visualisation and constructions Properties of shape	• find averages from a grouped data table • construct and interpret scatter diagrams • describe multiple transformations • enlarge a 2D shape given a centre of enlargement • construct angle and line bisectors