



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 8

TERM 1

Content

Number: Place value and calculation
Fractions, decimals and percentages

Algebra: Expressions
Solving equations and inequalities

Geometry: Angles

Concepts and Skills

- multiplication of decimals
- compare fractions, decimals and percentages
- expand brackets and simplify
- solve equations with unknowns on both sides
- solve inequalities
- use angle properties to solve problems

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 a position to term rule
- use formulae
- draw line graphs
- find areas of 2D shapes
- find volume of a prism
- find speed, distance and time
- add, subtract, multiply and divide fractions
- increase and decrease amounts by a percentage

TERM 3

Probability and Statistics: Presenting and measuring data
Geometry: Transformations
Visualisation and constructions
Properties of shape

- find averages from a table
- construct and interpret pie charts
- describe transformations
- enlarge a 2D shape
- construct triangles using a compass and ruler
- name 2D and 3D shapes and their properties

