



# Mathematics Foundation



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 (F)

TERM 1

### Content

Probability  
Multiplicative Reasoning  
Plans and Elevations, Bearings  
Constructions, Loci  
Recap of Year 10 Algebra the basics, expressions and substitution  
Quadratic Equations: Expanding and Factorising  
Quadratic Equations: Graphs  
graphs of cubic and reciprocal functions  
Rearranging Equations and simultaneous equations

### Concepts and Skills

- knowledge of core principles
- application of skills
- problem solving
- evaluation
- group work
- peer coaching
- revision skills
- examination technique

TERM 2

Fractions and Reciprocals  
Indices and Standard Form  
Similarity and Congruence in 2D  
Vectors  
Statistics and Probability Revision  
Geometry and Measures Revision  
Algebra Revision  
Number Revision

- knowledge of core principles
- application of skills
- problem solving
- evaluation
- group work
- peer coaching
- revision skills
- examination technique

TERM 3

Examination preparation

- knowledge of core principles
- application of skills
- problem solving
- evaluation
- group work
- peer coaching
- revision skills
- examination technique

