



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 requirements of the National Curriculum but will prepare pupils for the real world. Centred upon our belief 'Master your CRAFT, exceed your potential' our curriculum is designed to be accessible for all, challenging and enjoyable. Our five year scheme of learning enables students to build on prior knowledge; thus allowing for a smooth transition from primary years through to secondary and beyond. We want our students to leave St Gregory's with transferable skills that will enable them to solve problems, communicate, visualise, think analytically, self-regulate, reflect and more. It is through such skills that our students will not only function in society and the world of work but will become successful leaders and educators themselves having mastered their craft.

Coherence - breaking down problems into small interconnected steps

Representation and Structure – using concrete, pictorial and abstract ways to enable all pupils to access and solve problems

Analytical Thinking – providing opportunities for pupils to think through and share their ideas

Fluency and Variation – knowledge of key mathematical facts, enabling pupils to make connections and think flexibly.

Transferable Skills – equips pupils with the tools to tackle various situations in everyday life.

In doing this we endeavour to promote an appreciation of Mathematics as a creative and highly interconnected discipline. m 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 7

Content

Concepts and Skills

TERM 1

- Sequences.
- Understand and use algebraic notation.
- Equality and equivalence.
- Place value and ordering integers and decimals.
- Fraction, decimal and percentage equivalence.

- Algebraic thinking.
- Place value and proportion.

TERM 2

- Solving problems with addition and subtraction.
- Solving problems with multiplication and division.
- Fractions and percentages of amounts.
- Operations and equations with directed number.
- Addition and subtraction of fractions.

- Application of number.
- Directed number.
- Fractional thinking.

TERM 3

- Constructing, measuring and using geometric notation.
- Developing geometric reasoning.
- Developing number sense.
- Sets and probability.
- Prime numbers and proof.

- Lines and angles.
- Reasoning with number.

