## Mathematics

 only meet 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 mav have with the basic numeracv skills essential within evervdav life.

## Content

- Straight line graphs.
- Forming and solving equations.
- Testing conjectures.
- Three dimensional shapes.
- Construction and congruency.


## - Numbers

- Using percentages.
- Maths and money.
- Deduction.
- Rotation and translation.
- Pythagoras' theorem.
- Enlargement and similarity.
- Solving ratio and proportion problems.
- Rates.
- Probability.
- Algebraic representation.


## Concepts and Skills

- Reasoning with algebra.
- Constrcuting in 2 \& 3 dimenstions.
- Reasoning with proportion.
- Representations and revision.
- Reasoning with number.
- Reasoning with geometry.

