



CURRICULUM PLAN

SUBJECT

MATHEMATICS

OVERVIEW

Mathematics provides essential skills for everyday life and is critical for those students at All Saints who go on to have careers in technology, science, engineering or business. We aim to mathematically educate our students to be able to:

- use numeracy in everyday adult life
- reason mathematically
- solve problems
- become fluent and confident using the fundamentals of mathematics
- become curious and appreciative about the power and beauty of mathematics in the world around us

We aim for a consistent pedagogical approach throughout Key Stages 2, 3 and 4, using a variety of calculation and other mathematical strategies such as bar modelling and multiplicative reasoning. We use a mastery approach to teaching mathematics. We use calculators when it is sensible to do so and not as a substitute for those crucial mental and written methods that help our students deepen their understanding of mathematical processes.

KEY STAGE 3

We recognise the diversity of our students and start with consolidating (and developing further when necessary) their numerical and reasoning capability from Key Stage 2 ensuring that each student can use the appropriate calculations and other basic strategies to access the national curriculum at this stage. We cover the following 5 mathematical areas as prescribed in the National Curriculum:

- number
- algebra
- ratio, proportion and rates of change
- geometry and measure
- probability and statistics

Underpinning this is our aim to develop each student's confidence, fluency, reasoning, and problem-solving skills.

KEY STAGE 4

We see Key Stage 4 as a natural continuation from KS3 as a large proportion of the necessary mathematical understanding has already been covered. We continue with a similar approach as before but revise systematically all of our mathematical understanding during the Spring and Summer terms in Year 11. We currently prepare and enter our students as appropriate for the Edexcel Entry Level Certificate in Mathematics (2018), and/or the Edexcel Level 1/Level2 GCSE (9 to 1) Examinations (2017). Our KS4 curriculum delivers both the National Curriculum and the Edexcel specifications for these examinations.