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 research shows that the best progress in Maths is made when it is taught in ability groupings. This ensures that any numerical gaps or misconceptions are addressed that the Maths building blocks are all in place which is imperative if progress is to be made. Our small vertical groups mean teaching can be very personalised and students are able to move for different units according to their strengths and gaps. 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.