



CURRICULUM PLAN

SUBJECT

MATHEMATICS Key Stage 3 and 4

OVERVIEW

Mathematical understanding and fluency is important to everyone and helps us in our daily lives. 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 relevance of mathematics in the world around us

We aim for a consistent pedagogical approach throughout Key Stages 2, 3 and 4, ensuring that students have a secure mathematical foundation in numeracy from which to build and develop their understanding of other topics in the curriculum. Learning is assessed against the statements on our own bespoke frameworks (covering National Curriculum objectives) which are accessible through Arbor (the School's chosen Management Information System) and allow progress to be measured in small steps to meet individual needs. This is analysed termly by Subject leads and monitored by SLT. Where required, interventions are discussed with the class teacher, actioned and reviewed.

KEY STAGE 3

We recognise the diversity of our students and the support that is needed to develop mathematical fluency, reasoning and potential in each student. In order to achieve this, Maths is taught in "Stages" (based on students' current mathematical understanding) rather than in year groups. This allows teaching to be focused at a level appropriate to students and allows teachers to support any gaps in understanding, misconceptions and allows for consolidation of topics. Students build on their knowledge as they move through the Stages (there are 6 Stages in KS2/KS3). Students begin at the school at the Stage which is appropriate for them and progress through the Stages based on the development of their own mathematical knowledge. This method of teaching ensures students' progress at the rate that is right for them.

The Stages schemes of work have been designed to broadly cover the KS2 and KS3 Maths National Curriculum. Focus in the earlier Stages is on gaining a secure understanding in numeracy and fluency in using the four operations (including times tables) as well as developing an understanding of geometry, statistics, measures, fractions and time. As students progress through the Stages further topics from the KS2 and KS3 curriculums are included (such as algebra, ratio and probability).

	Underpinning this is our aim to develop each student's confidence, fluency, reasoning and problem-solving skills.
KEY STAGE 4	In KS4 students continue to build on the Maths knowledge they have developed in KS3. Students are entered into the Maths qualification that is most suitable for them. Students are able to take the Edexcel Level 1/Level2 GCSE (9 to 1) in Mathematics and/or the AQA Entry Level Certificate in Mathematics examinations. Our KS4 curriculum delivers the appropriate teaching and lessons for these examinations at the level that is suitable for each student. Topics covered include numeracy, geometry, algebra, statistics, probability, ratio and proportion.