

# GCSE MATHEMATICS

Examination Board: EDEXCEL MATHEMATICS (1MA1)

## WHAT WILL I STUDY?

Studying Mathematics gives you an exciting opportunity to develop transferrable skills covered in employment and further study, such as reasoning, problem-solving and resilience, alongside developing fluency in knowledge and skills. You will cover a broad range of topics across the strands of Number, Algebra Ratio and Proportion, Geometry and Statistics. Ultimately, Mathematics teaches people to think and communicate in a way which demonstrates precision, rigour and logic in tackling calculations and problems.

## HOW IS THE COURSE STRUCTURED AND ASSESSED?

Following baseline assessments, students embark on one of four tailored, Foundation or Higher pathway in Mathematics. These pathways are designed to support all students, regardless as to their ability, to excel in Mathematics and realise their full potential

The two-year scheme of learning is based on a 'two-cycle' model, spacing and interleaving units of work. This allows students the opportunity to return to challenging concepts throughout the course and ensure fluency in knowledge and skills. The development of fluency is further supported by bell (starter) tasks and a carefully sequenced home-learning programme which facilitates the crucial recall and retrieval skills necessary for exam success.

Lessons are designed to ensure that students develop a strong mathematical skill set, alongside reasoning and problem-solving skills. In addition to critical independent and deliberate practice, there are frequent opportunities for group discussion and inquiry. Students are also expected to develop their understanding and exam literacy through regular exposure to exam problems in lessons.

The Mathematics Department upholds of rigorous system of low-stake assessments in-class. We provide a number of opportunities for feedback on students' performance and learning, including prior knowledge quizzes in advance of a new unit; quizzes to assess students' short- and medium-term retention following the completion of a unit; as well detailed bespoke feedback and responsive teaching following exam-style assessments.

The GCSE itself is assessed by three examinations which will be taken exclusively at the end of Year 11. These exams- of which two require a scientific calculator- are combined to give an overall score and grade. Students will either be entered into a Foundation (1-5) or Higher (4-9) tier examination. A baseline assessment, sat at the beginning of Year 10, will be used in the first instance to determine a student's band and set in Mathematics. Sets are then reviewed continually, more specifically following key assessment.

## HOW WILL I STUDY?

You will complete 9 hours of Mathematics lessons across a fortnight, delivered by expert and experienced teaching staff. You will also complete a required 1-1.5 hours of homework per week online. The Mathematics Department encourages students to utilise the online resources available to them and take ownership over their own learning. Teaching staff offer further support at social time to support you in consolidating and/or extending your understanding of taught content.







YEAR 10

GCSE SUBJECTS  
Mathematics

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