Mathematics

Overview

GCE A Level Mathematics is a course worth studying not only as a supporting subject for the physical and social sciences, but in its own right. It is challenging and interesting and highly regarded by employers and universities as evidence of the ability to think logically, analytically, and precisely. It is a much sought-after qualification for entry to a wide variety of full-time courses in higher education.

It builds on work already met at GCSE but also involves new ideas produced by some of the greatest minds of the last millennium. As well as developing a fuller understanding to mathematical processes and how they relate to various fields of study, you will develop your ability to make logical and reasoned decisions, comprehend mathematical arguments, justify methods, construct proofs, interpret solutions, communicate rationale clearly, and use appropriate technology effectively.

Students will follow the AQA Advanced Level GCE in Mathematics (code 7357)

The Advanced Level in Mathematics course consists of three externally examined papers; Pure Mathematics runs through all three papers. The first paper is exclusively Pure, paper 2 also tests Mechanics, and paper 3 also tests Statistics.
Assessment; each paper is 2 hours, 100 marks, equally weighted towards your final grade at A Level. A calculator (including graphical) can now be used for all examinations and there is no coursework

Expectations

A willingness to work hard throughout the course is important. We will expect a good attitude to have been displayed at GCSE. The ability to work accurately with algebra, trigonometry, and geometry is essential and a good understanding of probability and statistics will help, although key concepts will be revised at the start of the course.

Independent learning

You will take increasing responsibility for your own learning and the evaluation of your own mathematical development. For every hour taught in lessons, students are expected to spend at least two hours in independent/private study.

Entry Requirement: In additional to the entry requirements mentioned in the Sixth Form Prospectus, you will need to attain a grade 6 or higher at GCSE Mathematics to take this course.