

Mathematics

Subject content

The content of A Level Mathematics splits broadly into the two strands of Pure Maths and Applied Maths (Statistics and Mechanics). **Two-thirds:** Pure Maths extends work covered at GCSE on algebra, trigonometry and graphs, as well as introducing brand new topics such as logarithms, calculus and vectors. **One-sixth:** Statistics allows us to investigate real-world data. From this we are able to make predictions and assess the validity of certain statistical models used to analyse the ever-changing world around us. **One-sixth:** Mechanics describes the motion of objects and how they respond to forces, from cars in the street to satellites revolving around a planet. You can view EDEXCEL course specifications by clicking on the link below; Mathematics on EDEXCEL [<https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2008.html>]

Specific entry requirements

GCSE Grade 6 or above in Mathematics. Students will also need to pass an entrance test.

Equipment

Students must have a minimum of Grade 6 in GCSE Maths (although Grade 7 or above is preferred). Students are also required to pass an entrance test before starting the course. Students will need to purchase the Casio Fx-991EX calculator for the course as well as a textbook.

Learning methods

You will discover and explore maths by discussion and group work as well as independent research and practical work.

Assessment

There will be regular homework and class tests to prepare for the final exams. Assessment is by examination at the end of the two years of study: Paper 1 and Paper 2 – Pure Maths Paper 3 – Statistics and Mechanics The content from both years of study are examined in these three papers.

Progression opportunities

Mathematics is a versatile A Level choice and is highly regarded by Higher Education establishments. Maths is a key component of many degree courses, including computer science, engineering, natural sciences, economics, medicine, geography, architecture and, of course, mathematics itself. Graduates go on to have a wide range of careers in any job where logical thought and problem solving are required such as accountancy, computing, scientific research and medicine.

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Call us on **01226 216 123**