

# Mathematics

This course is an award of EDEXCEL. Visit the EDEXCEL website to read the course specifications. [<https://qualifications.pearson.com/content/dam/pdf/A%20Level/Mathematics/2017/specification-and-sample-assesment/a-level-l3-mathematics-specification-issue4.pdf>]

## Specific entry requirements

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.

## Course content

**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. You will learn 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.

## Equipment

You will need to purchase the Casio FX-991CW or 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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