

# Maths

## Course overview

A-Level Mathematics builds on and extends the learning of students from GCSE. It develops essential skills of logic, application of reason, method and problem solving. It challenges students at the highest end of intellectual capacity and, as such, is highly regarded in both the workplace and in education.

## Exam / Coursework

All assessment is exam based.

The course consists of approximately two thirds pure mathematics and one third applied mathematics (mechanics and statistics).

The pure mathematics content continues the algebra that you will have learned at GCSE, introduces you to calculus (the most significant topic which distinguishes between GCSE and A-Level mathematics), extends your knowledge of trigonometry, and introduces other concepts such as logarithms.

The applied mathematics content covers mechanics (maths applied to problems of forces and motion) and statistics (probability and the analysis of data).

## Qualification gained

A-Level in Mathematics, following the Edexcel specification

**Edexcel** - [www.edexcel.com](http://www.edexcel.com)

## Entry requirements

A minimum of a grade 6 in Maths GCSE and four other subjects at grade 5 or above. Student will also be expected to sit an entry test

## Career opportunities

Careers include: engineering (mechanical, civil or aeronautical) science, academia, finance and computer technology.

