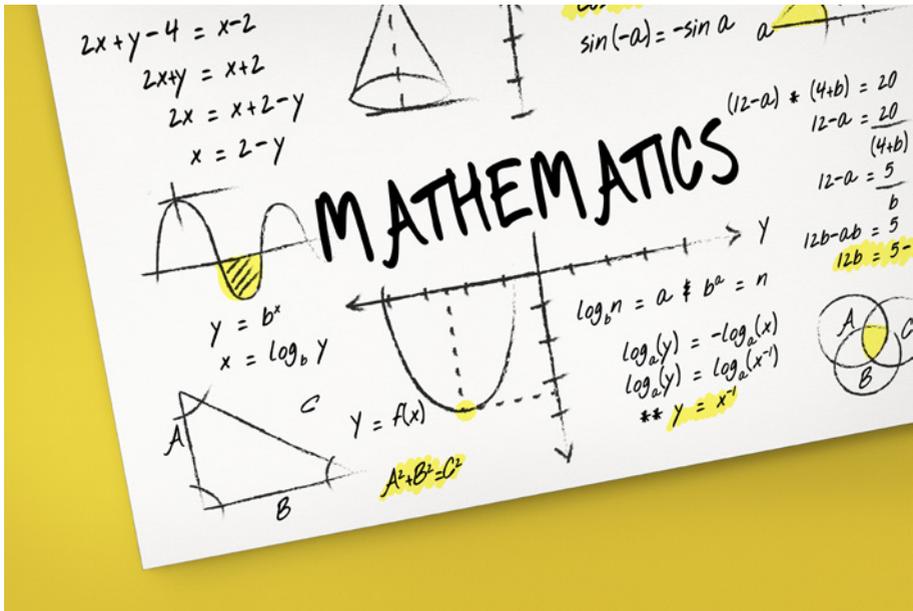# Mathematics

A Level

Overview

At A Level students will study both Pure and Applied Mathematics. Pure Mathematics develops the ideas introduced at GCSE, such as Algebra, Graphs and Trigonometry. The Applied Mathematics content is drawn from Statistics and Mechanics. Studying Mathematics gives students techniques for understanding and solving problems and it encourages the development of a logical and enquiring mind.

What goes well with this course?

Mathematics goes well with every subject and it is probably the most marketable A Level in terms of acceptability. There are good economic reasons for studying Mathematics and it is difficult to think of any further education course or career where it would not be welcomed in combination with other subjects.

Progression

A Level Mathematics is welcomed as a qualification for a variety of Higher Education courses.

A Mathematics qualification is vital for some subjects, such as Engineering and Physics, and useful for others, such as Biochemistry and Economics. Students aiming for a Mathematics, Engineering or Physics degree should also consider taking Further Mathematics A Level.

Many Mathematics graduates work in Accountancy, Computing, Engineering, Management or Teaching.

Course Content

This course covers:

- Year One: students study Pure Mathematics, Mechanics and Statistics
- Year Two: these topics are developed further

Pure Mathematics includes Algebra, Graphs and Trigonometry. Mechanics is the study of moving objects and Statistics is the study of data.

Educational Experiences

Course Specific Trips, Visits & Experiences

Mathematics A Level students have the opportunity to take part in a variety of course related experiences. In recent years, these have included:

- Taking part in the UKMT Senior Mathematics Challenge
- A visit to the Mathematics Inspiration Lectures

Assessment

There is no coursework, this subject is 100% examination.

The exam board for this A Level is Pearson Edexcel.

Entry Requirements

All students need to have at least five GCSEs at Grade 4 or above (and a satisfactory school reference) in order to be accepted on an A Level/BTEC Level 3 Programme.

In addition, students should meet the following minimum GCSE requirement:

- Grade 6 in Maths

Students must be competent in manipulating algebraic equations and should enjoy interpreting graphs.