

Mathematics

Examination Board: AQA (this may change once specifications are finalised and approved)

Entry Requirements:

Students should have achieved a Grade 7 at GCSE in Mathematics, with a majority of the Algebra content correct

Why study Mathematics?

A-Level Mathematics provides students with a thorough grounding in the mathematical tools and techniques often needed in the workplace. The logic and reasoning skills developed by studying A-Level Mathematics make sure the qualification is widely respected.

Course Content:

The A level mathematics course encourages students to develop mathematical argument, language and proof as well as problem solve and model using mathematics. The course covers elements of Pure Mathematics, Statistics and Mechanics. This includes, but is not limited to: algebra and functions; coordinate geometry; sequences and series; trigonometry; exponentials and logarithms; calculus; statistical sampling, distributions and hypothesis testing; kinematics; forces and Newton's laws.

Assessment:

All assessment is by examinations. Students will sit three separate papers at the end of the course – Pure Mathematics, Statistics and Mechanics. Each exam is two hours long and is worth one third of the A-level

Further Course Information:

A-level Mathematics encourages students to :

- Develop their understanding of mathematics and mathematical processes in a way that promotes confidence and fosters enjoyment;
- Develop abilities to reason logically and recognise incorrect reasoning, to generalise and to construct mathematical proof;

Future Uses:

A-Level Mathematics provides a foundation for further studies in a variety of subjects including Science and Engineering.