

# Mathematics

## A Level

**Exam Board:** AQA

### Subject Specific Criteria:

- Minimum Grade 7 in GCSE Maths
- Secure knowledge of:
  - Co-ordinate geometry
  - Algebraic manipulation
  - Surds
  - Indices
  - Trigonometry

### Units Studied:

- Pure Maths
- Statistics
- Mechanics

### Course Information:

A Level Maths 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 Maths make sure the qualification is widely respected even

Two-thirds of the qualification is made up of Pure Core Maths, which provides techniques in Algebra, Geometry, Trigonometry and Calculus - the fundamental building blocks of this subject.

Mechanics and Statistics make up the remaining third of the qualification. In Mechanics you will study Kinematics, Forces and Newton's Laws, and in Statistics you will study data presentation and interpretation, probability, testing hypotheses and statistical sampling.

### Skills Required:

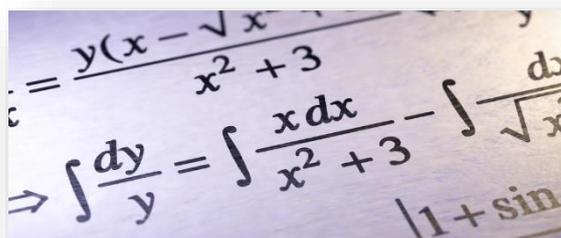
- A never give up attitude
- A love of algebra
- Analytical skills
- Problem solving

### Futures:

Maths is essential for studying Maths, Physics or Engineering at University, and for these subjects Further Maths is highly desirable or even essential at the top institutions (see page on Further Mathematics). Other courses which benefit from Maths A Level are medicine, economics, accounting and other sciences.

### Subject Enrichment:

Various opportunities to enter national and international Maths competitions, visit Universities, and see STEM speakers.



### Student Quote

*"The step up from GCSE Maths is bigger than it first seems, but if you're motivated enough to put the effort in – the Beckfoot staff will put the same effort into you!" – Year 13 student*