

# Further Mathematics

## A Level

**Exam Board:** AQA

### Subject Specific Criteria:

- Minimum Grade 8 in GCSE Maths

### Course Information

Further Maths is a demanding course which results in achieving two A Levels by the end of Year 13. This is taught in just six hours a week, so students need to be prepared to complete independent work outside of lessons. It is an extremely course but can be rewarding if you are up for the challenge.

### Units Studied:

- Pure Maths
- Mechanics
- Statistics
- Decision

Two-thirds of the A level Maths qualification is made up of Pure Core Maths, which provides techniques in Algebra, Geometry, Trigonometry and Calculus - the fundamental building blocks of this subject. The final one-third of this qualification is made up from Mechanics and Statistics.

Similarly, Further Pure Maths makes up two thirds of the A level Further Maths qualification. Mathematical applications make up the remainder of the course. At Beckfoot, we study Decision and Mechanics.

### Skills Required:

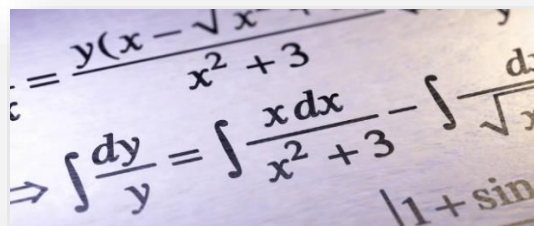
- Analytical skills
- Problem solving
- Inquisitive mind

### Futures:

Maths opens doors to University courses. You want to study any science based course, including medicine, engineering, computing, maths is a must. It is also good to have if you are thinking about law, psychology, economics, business studies, architecture. Since maths is one of the most traditional and hardest subjects a good grade in maths can boost an application for pretty much every course and job you might want to apply for.

### Subject Enrichment:

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



$$y = \frac{y(x - \sqrt{x})}{x^2 + 3}$$

$$\Rightarrow \int \frac{dy}{y} = \int \frac{x dx}{x^2 + 3} - \int \frac{dx}{\sqrt{x}}$$

$$|1 + \sin$$

### Student Quote

*"In-depth and fast paced. Great if you love Maths. Really good fun!"* – Year 13 student