

## Further Mathematics

A level Further Mathematics offers students the chance to broaden and deepen their mathematical knowledge and skills developed when studying A Level Mathematics.

Topics such as Matrices and Complex Numbers are introduced for the first time, while others, such as Algebra, Calculus and Trigonometry are studied in greater depth.

Further Mathematics provides a challenge and chance to explore new and/or more sophisticated mathematical concepts. As well as learning new areas of pure mathematics you will study further applications of mathematics in mechanics and decision mathematics.

Further Mathematics qualifications are highly regarded and are warmly welcomed by universities. Students who take Further Mathematics are really demonstrating a strong commitment to their studies, as well as learning mathematics that is very useful for any mathematically-rich degree.

**Further Mathematics can only be studied alongside A level Mathematics.**

During Year 12 all students will study the Maths AS level content and the Further Maths AS level content. They will sit their Maths A level at the end of Year 13 and their Further Maths A level at the end of Year 13 too.

### ASSESSMENT and CONTENT

Edexcel Advanced GCSE in Further Mathematics (9FMO)

#### Year 1:

Unit 1: Core Pure Mathematics 1

Unit 2: Further Mechanics 1

Unit 3: Decision Mathematics 1

#### Year 2:

Unit 1: Core Pure Mathematics 2

Unit 2: Further Mechanics 1 (continued)

Unit 3: Decision Mathematics 1 (continued)

Assessment is by **six** examinations at the end of Year 13.

*The course requirement:*

*Grade 6 in English Language and Grade 8 in GCSE Mathematics. High confidence in algebra is essential for the course.*