

	FURTHER MATHEMATICS	
	Qualification Level	A-level
	Exam Board/ Syllabus	MEI (OCR)
Contact(s)	Mrs Leeding	

Why Study This Course?

A-Level Further Mathematics is fun and rewarding. It broadens your mathematical skills and promotes deeper mathematical thinking. You will be introduced to interesting new areas of pure mathematics such as complex numbers and apply mathematics in a wider range of contexts. Employers and universities value the logical thinking and problem solving skills you will develop during the course and there is a huge demand from science, engineering and manufacturing employers for people with these analytical skills.

Course Content

The course will cover a range of mathematical concepts to extend your knowledge from the Mathematics A-Level. The course will consist of some prescribed material for Pure Mathematics, including:

- Proof
- Complex numbers
- Matrices
- Polar co-ordinates
- Hyperbolic functions
- Differential equations

This will be complemented by concepts from a combination of mechanics, statistics, discrete maths and modelling with algorithms. There is more flexibility on the content studied for the further maths A-Level. This content will be decided on by your class teacher depending on the other subjects you are studying and the strengths of the students in the class.

Course Assessment Pattern/ Structure

Students must be studying A-Level Mathematics to study A-Level further mathematics.

The assessment pattern will depend on the modules chosen by you and your class teacher. You will be regularly assessed with topic tests and independent learning tasks.

There is more flexibility with the further mathematics A-Level, and you will have the option of studying for the full A-Level over two years, or an AS qualification over one or two years.

Exam Structure

For the full A-level 50% of your final grade is decided from your understanding of the compulsory content. This will be examined in one exam lasting 2 hours 40 minutes.

The other 50% will be made up of the optional modules studied. Exam length and number will depend on the modules chosen.

The AS-level is made up of three exams of 1 hour 15 minutes each.

Higher/Further Education & Career Links

A Further Mathematics A-Level is a highly desirable qualification if you are planning on studying mathematics, science, engineering or computing. Many courses, especially mathematics degrees, require an A-Level in further mathematics if it is offered at school.

<i>Business & Innovation</i>	<i>English</i>	<i>Expressive Arts & Languages</i>	<i>Humanities</i>	<i>Mathematics</i>	<i>PE</i>	<i>Science</i>
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