A Level Further Mathematics

The Course
It involves you studying both Mathematics and Further Mathematics. Students who take Further Mathematics often study four A Levels, and so half of your time will be taken up with maths: in other words you really need to love the subject! However the rewards can be huge and it can help to support and improve your grade in A Level Mathematics.

The Content
Approximately half the course is pure maths and this builds on the work covered in the Maths A Level as well as introducing new topics such as complex numbers and hyperbolic functions.

The remainder will be taken up with applications of maths. This is likely to be mechanics and discrete maths. This application, often referred to as decision maths, uses methods to make "optimal" efficient decisions; the shortest journey, the cheapest route, the best way to load a ferry! This is a great way of seeing how maths really can be used to solve economic problems and save your company money!

Assessment
100% examined. There is no coursework.

There are three exams at the end of year 12 and four exams at the end of year 13. You will complete an AS Level at the end of year 12 where it is part of a 4 course timetable.

It is therefore possible to stop the course at the end of year 12. This will leave you with an AS Level in Further Maths (you must continue with Maths).

Subject entry requirements
GCSE Maths grade 7 or above.

Pathways/Careers
Oxbridge and the top universities like students who are thinking of studying Mathematics, Engineering and Natural Sciences to have Further Mathematics.

Students go on to successfully study or work in many fields, including:

Accountancy	Banking	Engineering	Data Analyst
Teaching	Manufacturing	Science	Systems Development
IT	Computing	Aerospace	Defence