A Level Further Maths

at The Warriner School

Further Mathematics
Level: A level
Entry requirements:
GCSE Mathematics at grades 8 or above. Students achieving a grade 7 will be admitted at the discretion of the Maths Department. Students choosing Further Mathematics must also choose A level Mathematics.

Exam board: OCR – MEI Specification. This is a new 2017 specification. The changes include:

New linear structure: All assessment will take place at the end of the course. Exam questions may draw on the content of the whole A Level.

New emphasis: There will be more emphasis on problem solving, reasoning, and modelling, and a requirement for the use of technology to permeate teaching and learning.

New content: There is some optional content within A Level Further Mathematics. It will include pure mathematics, mechanics and statistics (including analysis of large data sets). An indication of optional content is given below but please be aware that this may change slightly depending upon the requirements of the students in each cohort. We will make the decision about the optional modules once we know who has signed up to the course and how students progress, so that we can cater to best meet the needs of students in the group. This decision will vary from year to year.

Assessment structure	Compulsory Further Pure topics	Optional components
2h40min Pure paper **either** 2h15min +1h15min **or** 3x 1h15min Dependent on optional units taken	- Complex numbers - Matrices - Proof by induction - Sums of standard series - Vectors	3 options, each with a separate examination, from: - Mechanics a - Statistics a - Modelling with algorithms - Numerical methods - Mechanics b - Statistics b - Further Pure Mathematics

Skills required: The skills required for Further Mathematics are the same as those for Mathematics. In addition, further mathematicians have a passion for, and want to gain a deeper understanding of, mathematical concepts and perhaps go on to study Mathematics at a top university.