

# **FURTHER MATHEMATICS**

## **A Level**

### **Where do I start from?**

You will need to meet the School's minimum entry requirements. Please also refer to the Sixth Form Minimum Entry Requirements for 2019 Entry information sheet. For this subject you will need a minimum Grade 8 in Mathematics at GCSE Level. English Language or Literature at a minimum Grade 4 is acceptable. A keen interest and a desire to study high level Mathematics is essential.

### **What will I study?**

All students will study a range of Pure Mathematics, Mechanics, Statistics and Decision Mathematics. Pure Mathematics is the study of rigorous mathematical arguments using algebraic techniques which will give you an insight into major mathematical theories. Mechanics is the mathematical modelling of real-world situations. Statistics deals with the analysis of variable amounts of data and will explain many everyday real-life events. Decision Mathematics uses the techniques of discrete mathematics to solve real life problems in many areas.

### **How will I be assessed?**

There are termly assessments and internal examinations throughout the course.

As a Further Mathematics student you will take three equally weighted linear papers: Pure Mathematics 1, Pure Mathematics 2 and a mixed paper of Statistics and Mechanics. The content for these papers will be studied over Year 12 and examined at the end of Year 12 to gain an A Level in Mathematics.

During Year 13 you will take 4 additional linear papers to be awarded an A Level in Further Mathematics: Further Mathematics 1, Further Mathematics 2 and two papers choosing from Further Mechanics, Further Statistics and Decision Mathematics.

There is no coursework involved in this course.

### **How will I study?**

You will make notes, follow through worked examples, practising techniques taught in lessons, independent study and regular testing.

We will also use lunchtime support sessions to help you learn more effectively.

You will also be expected to make use of the library Mathematics reference section, journals, graphical calculators and computers. You will also be expected to do practical modelling at times throughout the course.

### **Which other subjects does the course combine well with?**

It combines particularly well with the Sciences. However, due to the transferable nature of Mathematics, this subject will complement the majority of the other courses on the curriculum.

### ***Specifics***

You will need a recommendation from your GCSE Mathematics teacher in order to enroll on this course.