

### **Aims of the course:**

Further Mathematics introduces great new topics such as matrices and complex numbers that are vital in many maths-rich degrees. Students who have studied Further Mathematics find the transition to University study so much easier because they have learnt important mathematical concepts and communication methods. They also have an enhanced ability to study independently. Studying Further Mathematics also boosts students' performance in A Level Mathematics, giving students a definite advantage over their peers who do not follow this fabulous course.

### **What are lessons like?**

Ever wanted to get inside the matrix? Well, we have 5 one hour lessons per week and your two teachers will help you to learn how to perform operations on matrices and vectors and will highlight the many real life applications of this and many other topics. We will use different teaching methods and will assess your progress regularly to help you stay on track. We provide excellent support and this course is a great foundation for maths at university.

### **What are exams like?**

- There are 3 two hour exams at the end of Year 13
- Paper 1 - a pure paper
- Paper 2 - a pure paper
- Paper 3 - a choice of papers – choose two from statistics, mechanics and discrete

### **Recommended prior learning /entry requirements:**

You will need strong skills in algebra and we are always able to help students to consolidate these skills and build on them.

A minimum of a GCSE grade 8 is needed to study A Level Further Maths.



# Further Mathematics

## A Level (AQA)

### **Recommended additional reading:**

A variety of text books will be supplied. A course handbook is issued at the start of the course. Students will need to purchase a graphical calculator which cost approximately £45.

### **Where can this course lead to?**

Mathematics opens doors and is a key subject for further study. Lots of university courses contain a maths component such as geography, psychology, economics and accountancy. Lots of others, like medicine, computing, statistics and engineering often require a good grade in A Level maths.

### **Why study Further Maths at St Mary's College Sixth Form?**

Further Mathematics is an A2 Level qualification which both broadens and deepens the mathematics covered in A2 level mathematics.

Further Mathematics gives opportunity for the exploration of beautiful and useful mathematics, taught by highly qualified and experienced Mathematicians.

Studying Further Mathematics also consolidates and reinforces students' core A level maths work, helping them to achieve their best possible grade.