

## **AS and A2 FURTHER MATHEMATICS Course Description**

### **Entry requirements:**

In order to begin an A level course in Further Mathematics in year 12, the Mathematics Department require that you achieve: 5 GCSEs at grades A\* to C including an A Grade at Higher level Tier of GCSE Mathematics, but ideally an A\*. However, you will also need a Level 2 Literacy qualification (Grade C in GCSE English or equivalent). If you do not have this we can assess your current level of literacy.

In addition to this, in order to progress from year 12 into year 13, we require that you achieve a C grade or better in your AS Further Mathematics units collectively and an A in AS Mathematics.

### **Topics Covered:**

The Further Mathematics AS and A level follows on from the work of the Mathematics A level and is one of the most prestigious and challenging (and interesting!) A Levels on offer. Like the Mathematics A Level, the Further Mathematics A level also comprises of 6 (additional) units. There are numerous combinations of units which can make up the 6 units for your A level which include: FP1, FP2, FP3 (the Further Pure Units which are generally further core methods). There are also applied the applied units: Statistics (S2, S3, S4, etc), Mechanics (M2, M3, M4, etc) which you will have met in your A level. There is also a further applied module: Decision Mathematics (D1, D2, etc) which concerns algorithms for solving problems and has links to Computing. FP1 is the only compulsory unit, and we will choose the other 5 modules for your A level to suit your needs and strengths.

### **Exam Board:**

At St Aloysius School and College we follow the Edexcel Examination board for our A Level program in Further Mathematics.

### **Exam format**

The AS consists of FP1, and 2 other units not studied so far for your Maths A Level (listed above).

The A2 consists of 3 more units, again not studied so far for your Maths A Level.

Each module contributes an equal weight to the result in the AS, A2 or A Level.

The exam for each module lasts 1 hour and 30 minutes and carries a total of 75 marks. Each exam contains 6 to 12 questions of varying length.

Your result for each module exam is given as a UMS score out of 100.

A UMS score between 90 and 100 is a grade A\*.  
A UMS score between 80 and 100 is a grade A.  
A UMS score between 70 and 79 is a grade B.  
A UMS score between 60 and 69 is a grade C.  
A UMS score between 50 and 59 is a grade D.  
A UMS score between 40 and 49 is a grade E.  
A UMS score between 0 and 39 is a grade U.

(NOTE: You can only receive an A\* for a full A level and not for an AS qualification).  
Grade boundaries for your AS and A Level use the same percentages.

### **Controlled Assessment Requirements:**

AS and A Level Further Mathematics is currently assessed purely by examination as described above. There is no coursework or controlled assessment element for the Edexcel examination board which we follow.

### **Progression/Pathways:**

If you hold an A Level in Mathematics and Further Mathematics many pathways are open to you. Many Degree courses in subjects related to Mathematics at University require a degree in Mathematics, such as:  
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