

## A level Further Maths - where will it take you?

At Sir Isaac we study OCR-MEI Further Maths B, course code H645.  
Our Further Maths students study in classes separate to those taking single maths so are able to learn independently and at a pace suitable to them.

We include weekly problem solving activities in Year 12 which provide a great base for attempting STEP and MAT based questions in Year 13. This type of question feature regularly in Further Maths classes.

### Building from A level Maths

See our course overview for A level single maths, which is all taught in Year 12. Further Maths picks up from where this leaves off.

#### Year 2, Teacher 1

- Proof
- Complex Numbers
- Matrices and Transformations
- Vectors and 3-D Space
- Algebra
- Series
- Calculus
- Polar Coordinates
- Hyperbolic Functions
- Differential Equations

#### Year 2, Teacher 2

As a class, we will study either...

- One major + one minor

Or

- Three minors

From the topics below...

#### Majors

- Mechanics
- Statistics

#### Minors

- Mechanics
- Statistics
- Modelling with Algorithms
- Numerical Methods
- Extra Pure
- Further Pure with Technology

### What GCSE grade do I need to study Further Maths at Sir Isaac?

You need at least level 7 in maths at GCSE.

### How many lessons will I have?

Ten taught hours per week, split equally between two teachers.

### How are maths and further maths taught together?

We study all the single maths A level content in year 12, and then all the further maths content in year 13.

### How much homework will I get?

Typically 2-3 hours per teacher per week plus your own, independent review and consolidation of previous topics.

### What exams will I take?

There are three, two hour exams for single maths and another three, two hour exams for Further Maths. Because of the way that we organise the course, there is an examination opportunity for single maths at the end of Year 12 and a retake opportunity at the end of Year 13. Further Maths is examined at the end of Year 13 only. There are no AS exams.

### What preparation should I do?

Key GCSE topics to practice are solving equations, graphs, rearranging formula, and quadratics. The AQA Level 2 Certificate in Further Maths is great preparation for studying Further Maths at A level.