CLAIRES COURT
SIXTH FORM

Curriculum Statement

Year 12 and 13 - Further Maths
2025 – 2026

Your place to *aim high*

Further Maths

Introduction

Our most capable Year 12 Maths students may be invited to study Further Maths to AS level, by attending additional lessons leading to an extra set of exams at the end of Year 13.

We follow the Edexcel Advanced Subsidiary GCE Specification 8FM0. At Claires Court the course is spread over two years and examined at the end of Year 13 (note that there are no external Further Maths exams at the end of Year 12).

Areas of study and assessment

The A level Further Maths course is examined in two papers at the end of Year 13; one in Core Pure Mathematics and the other in Further Mathematics Options. Students must answer all questions on the papers. The topics covered by each of these papers are as follows:

Paper one: Core Pure Mathematics

(one hour and 40 mins)

- Complex numbers
- Series
- Roots of Polynomials
- Further calculus
- Matrices
- Proof by induction
- Vectors

Paper two: Further Mathematics Options

(1 hour 40 mins)

At Claires Court the two options we teach are Further Pure Mathematics 1 and Further Mechanics. The content of these options is as follows:

Further Pure Mathematics 1:

- Conics
- Further vectors
- Inequalities
- The *t*-formulae
- Numerical methods

Further Mechanics 1:

- Momentum and impulse
- Work, energy and power
- Elastic collisions in one dimension.

Homework

Written homework assignments will be set throughout the year for students to practise solving problems with the skills that they have learned. Use will also be made of online learning resources. Teachers are available in lessons and at other mutually convenient times to provide help.

Mastery

- Students taking Further Mathematics overwhelmingly find it to be an enjoyable, rewarding, stimulating and empowering experience.
- For someone who enjoys mathematics, it provides a challenge and a chance to explore new and/or more sophisticated mathematical concepts.
- Students who take Further Mathematics find that the additional time spent studying mathematics boosts their marks in single A level Mathematics.
- It makes the transition from sixth form to university courses which are mathematically rich easier as more of the first year course content will be familiar.
- It enables students to distinguish themselves as able mathematicians in their applications for university and future employment.

Textbooks

In Year 12 we use 'Pearson Edexcel Core Pure Mathematics Book 1/AS' and in Year 13 two books 'Pearson Edexcel Further Pure Mathematics FP1' and 'Pearson Edexcel Further Mechanics FM1'. All books also give free online access to further resources.

For further information please contact:

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