FURTHER MATHS

Exam Board: OCR MEI
Entry Requirements: Students must achieve Grade 8 or above in Mathematics at GCSE and be enrolled on the A Level Maths course. This should be a fourth subject choice.

COURSE SUMMARY

The Further Maths A Level is a stand alone course from A Level Maths. You will study additional topics not currently covered in Maths, such as Complex Numbers, Matrices, Hyperbolic Functions and more.

COURSE STRUCTURE

Students will cover the AS element of the compulsory Pure content in Year 12 and the remaining in Year 13.

They will study three additional topics in Modelling with Algorithms (Y12), Statistics (Y12), and Mechanics (Y13).

Further Pure Mathematics (Compulsory Modules)

Year 12
Proof; Complex numbers; Matrices; Further algebra and functions; Further vectors; Sequences and Series.

Year 13
Complex numbers; Further algebra and functions; Further calculus; Polar coordinates; Hyperbolic functions; Differential equations.

Applied Mathematics (Additional Modules)

Modelling with Algorithms
Algorithms and graph theory; Algorithms on graphs; Critical path analysis; Linear programming.

Statistics
Linear regression; Statistical distributions (discrete); Bivariate Data; Statistical distributions (continuous); Correlation; Hypothesis testing; Chi squared tests.

Mechanics
Kinematics; Work, Energy and Power; Momentum and Impulse; Collisions; Dimensional Analysis.