
FURTHER MATHEMATICS

Examination Board: Edexcel

Syllabus: 9FM0

WHY STUDY MATHEMATICS?

Studying Further Mathematics consolidates and reinforces your standard A level Mathematics work, helping you to achieve your best possible grades. It makes the transition from sixth form to university courses which are mathematically rich that much easier as more of the first-year course content will be familiar. It is extremely rewarding course which introduces you to imaginary numbers, parabolic and hyperbolic equations, matrices and proof by induction.

THE A LEVEL PROGRAMME OF STUDY: How you will be assessed

Unit	Unit contents	Assessment and duration
Papers 1 and 2: Core Pure Maths 1 and 2	<ul style="list-style-type: none">• Proof• Complex numbers• Matrices• Further algebra and functions• Further calculus• Further vectors• Polar coordinates• Hyperbolic functions• Differential equations	1 hr 30 mins each 25% each
Papers 3 and 4:	Option 1 Papers <ul style="list-style-type: none">• 3A – Further Pure Mathematics 1• 3B – Further Statistics 1• 3C – Further Mechanics 1• 3D – Decision Mathematics 1 Option 2 Papers <ul style="list-style-type: none">• 4A – Further Pure Mathematics 2• 4B – Further Statistics 2• 4C – Further Mechanics 2• 4D – Decision Mathematics 2	1 hr 30 mins 25% 1 hr 30 mins 25%

HIGHER EDUCATION AND CAREER OPPORTUNITIES

Students with an A Level in Mathematics can progress to degrees such as Mathematics and Engineering, as well as the Sciences, Social Sciences (e.g., Economics) or Computing. Many universities are now encouraging students to take Further Maths if they wish to study Maths-related subjects such as engineering, sciences, computing or technology.

SUBJECT SPECIFIC ENTRY REQUIREMENTS

Students must have achieved grade 7 or higher in GCSE Mathematics.

FOR FURTHER INFORMATION please contact Mr G Stephens gst@sandon.essex.sch.uk or Mrs J Blackman jbl@sandon.essex.sch.uk