6th form

Course Level

A Level

Awarding Body

Edexcel

Entry Requirements

Grade 8 in GCSE Mathematics

Assessment

Paper 1 (Core Pure Mathematics 1)
Paper 2 (Core Pure Mathematics 2)
Paper 3 (Further Mathematics Option 1: Further Pure Mathematics 1, Further Statistics 1, Further Mechanics 1, Decision Mathematics 1)
Paper 4 (Further Mathematics Option 2: Further Pure Mathematics 1, 2, Further Statistics1, 2, Further Mechanics 1, 2, Decision Mathematics 1, 2)

All unit examinations are 1 hour 30 minutes in Summer of Year 13.

MATHEMATICS FURTHER

Further Mathematics is a subject for those who have an aptitude in Mathematics at Advanced level. Those who intend to study Mathematics at university would find it particularly beneficial.

The Further Maths course comprises four modules – Core Pure 1 & 2, and two options. In recent years, we have studied Further Pure 1 and Decision 1. There is scope to alter the modules studied depending on the interests of the students involved.

Core Pure Mathematics 1 contains work on Complex Numbers and Matrices. Core Pure Mathematics 2 involves Polar Coordinates and Differential Equations. Further Pure Mathematics 1 contains Further Calculus and Vectors. Further Pure Mathematics 2 contains work on Groups and Number Theory.

The Further Statistics options contain work on Statistical Distributions and Hypothesis Tests. The Further Mechanics options include Collisions and Centres of Mass. The Decision Mathematics options include Algorithms and Linear Programming.

Special Requirements

No coursework is necessary for A Level Further Mathematics.

Career and Progression Opportunities

The objective of the course is to include a sufficient range of mathematical topics so that when students successfully complete the course, they will have the necessary basis for progressing to further study in Economics, Geography, Mathematics, related subjects such as Physics or Engineering, Risk Analysis, Global Climate Modeller, Actuary, Biometrics Officer, working for the Aerospace industry or directly into employment.

Link to specification: https://qualifications.pearson.com/content/dam/pdf/A%20Level/Mathematics/2017/specification-and-sample-assesment/a-level-l3-further-mathematics-specification.pdf