

Further Maths A Level

Exam Board: Edexcel

Entry Requirements: Grade 7 in GCSE Mathematics

Subject Content

Core Pure Mathematics 1 & 2
Further Mathematics 1 & 2

This Pearson Edexcel Level 3 Advanced GCE in Further Mathematics builds on the skills, knowledge and understanding set out in the whole GCSE subject content for mathematics and the subject content for the Pearson Edexcel Level 3 Advanced Subsidiary and Advanced GCE Mathematics qualifications. Problem solving, proof and mathematical modelling will be assessed in further mathematics in the context of the wider knowledge which students taking A level further mathematics will have studied.

Assessments

The course is assessed through four externally examined papers.

Progression/career opportunities:

Leavers will be looking to progress into STEM careers, such as Theoretical Physics, Computer Science, or Engineering.

Successful earners will be able to progress into higher education to study degrees, such as:

- Physics (BSc)
- Astrophysics (BSc)
- Aeronautical Engineering (BSc)
- Chemical Engineering (BSc)
- Electronic Engineering (BSc)

Skills gained and enrichment opportunities:

The aims and objectives of this qualification are to enable students to:

- understand mathematics and mathematical processes in ways that promote confidence, foster enjoyment and provide a strong foundation for progress to further study
- extend their range of mathematical skills and techniques
- understand coherence and progression in mathematics and how different areas of mathematics are connected
- apply mathematics in other fields of study and be aware of the relevance of mathematics to the world of work and to situations in society in general
- use their mathematical knowledge to make logical and reasoned decisions in solving problems both within pure mathematics and in a variety of contexts, and communicate the mathematical rationale for these decisions clearly
- reason logically and recognise incorrect reasoning
- generalise mathematically
- construct mathematical proofs
- use their mathematical skills and techniques to solve challenging problems which require them to decide on the solution strategy
- recognise when mathematics can be used to analyse and solve a problem in context
- represent situations mathematically and understand the relationship between problems in context and mathematical models that may be applied to solve them
- make deductions and inferences and draw conclusions by using mathematical reasoning
- interpret solutions and communicate their interpretation effectively in the context of the problem

Further information:

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