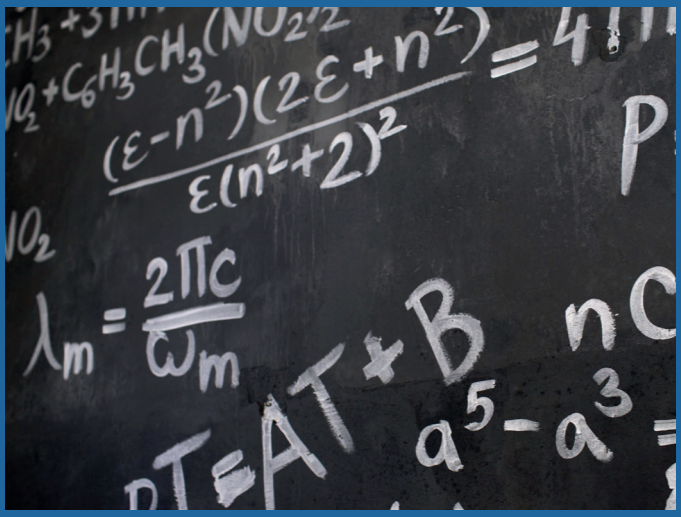
Maelor Sixth



Further Maths WJEC A Level

Subject Leader: Mr A Bright

Introduction

A Level Further Mathematics is fun and rewarding. It broadens mathematical skills and promotes deeper mathematical thinking. Students are introduced to new areas of pure mathematics such as complex numbers and apply mathematics in a wider range of contexts. Studying it is likely to improve a student's grade in A Level Mathematics. The extra time, additional practice, further consolidation, and development of techniques contribute to improved results in A Level Mathematics.

The Course

Year One

- AS Unit 1 - Further Pure 1 - including Proof, Complex Numbers, Matrices, Further Algebra and Functions and Further Vectors
- AS Unit 2 - Further Statistics - including Random Variables and Poisson Processes and Goodness of Fit
- AS Unit 3 - Further Mechanics - including Momentum and Impulse, Hooke's Law, Work, Energy, Power, Circular Motion and Differentiation and Integration of Vectors

Year Two

- A Level Unit 4 - Further Pure Mathematics – including Complex Numbers, Further Trigonometry, Matrices, Further Algebra and Functions, Further Calculus,
- Polar Coordinates, Hyperbolic Functions and Differential Equations
- A Level Unit 5 or 6 - Further Statistics or Further Mechanics - extending units 2 and 3 respectively

Assessment

AS - Year 12

Unit 1, 2 and 3 - written examinations all worth 13 ⅓% of the A Level grade

A Level - Year 13

Unit 4 and 5 - written examinations both worth 30% of the A Level grade

Entry Requirement

- GCSE grade A/7 or above in Mathematics
- Also studying A Level Mathematics
- A genuine love of maths
- GCSE grade C/4 in English

Further Information

Maths can play an integral part of careers, and can provide many opportunities, both academically and career-wise.



Links to Future Careers

As technology continues to advance, so too does mathematics, increasing its essential role in both every day and corporate life. New mathematical theories are discovered continually enabling inventions and scientific discoveries to continue to flourish. Students would have the opportunity to forge a career that is at the forefront of technological advancement.

- Business analyst
- Chartered accountant
- Economist
- Financial manager
- Actuary
- Statistician
- Investment Analyst
- Operational researcher

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