Maelor Sixth



Maths
WJEC A Level

Subject Leader: Mr A Bright

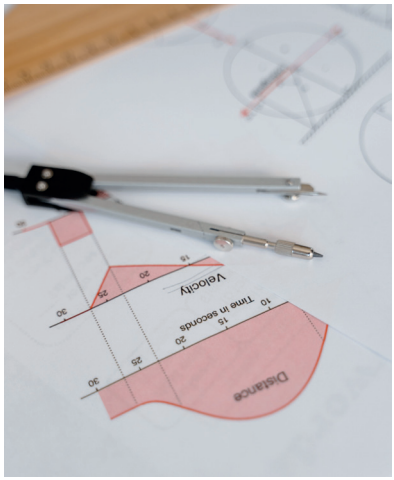
Introduction

Mathematics underpins the understanding of everyday life in nature, science, engineering, and finance. The course aims to provide the skills necessary to communicate and problem- solve using mathematics. The programme of study includes pure mathematics, mechanics, statistics, differential equations, and numerical methods.

The Course

Year One

- Unit 1 : Pure Mathematics - including Proof, Algebra and Functions, Coordinate Geometry, Sequences and Series, Trigonometry, Exponentials and Logarithms, Differentiation, Integration and Vectors.
- Unit 2 : Applied Mathematics - including Statistical Sampling, Data Presentations and Interpretation, Probability, Statistical Distributions, Hypothesis Testing, Quantities and Units in Mechanics, Kinematics, Forces and Newton's Laws and Vectors.



Year Two

- Unit 3 : Pure Mathematics - including Proof, Algebra and Functions, Coordinate Geometry, Sequence and Series, Trigonometry, Differentiation, and Integration.
- Unit 4: Applied Mathematics - including Probability, Statistical Distributions, Statistical Hypothesis Testing, Trigonometry, Differentiation, Integration, Numerical Methods, Kinematics, Forces and Newton's Laws, Moments, and Vectors.

Assessment

AS - Year 12
Unit 1 written examination worth 25%
Unit 2, written examination worth 15% of the A Level grade

A Level - Year 13
Unit 3 written examination worth 35%
Unit 4, written examination worth 25% of the A Level grade

Entry Requirement

- GCSE grade A/7 or above in Mathematics
- A genuine love of maths and strong algebraic skills
- GCSE grade C/4 in English

Further Information

Maths is desirable if entering employment, starting an apprenticeship or for courses and careers detailed here.



Links to Future Careers

Maths A Level supports degree studies in Physics, Engineering, Science, Maths Actuarial Science and Economics. For some courses, students may be required to study a Further Maths course as well. Maths is also useful for studies in:

- Computer Science
- Accounting
- Chemistry
- Biology
- Life Sciences
- Psychology and Philosophy
- Medicine/Nursing
- Dentistry
- Business Studies
- Management Studies and Finance
- Architecture and Surveying
- Geology

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