



MATHEMATICS

WJEC AS/A2

ENTRY REQUIREMENTS

Grade B or above in mathematics at higher tier only.

COURSE CONTENT

Most of the Mathematics covered at GCSE is Pure Mathematics. At AS / A2 the course is modular and includes both Pure (Units 1 and 3) and Applied (Units 2 and 4).

The applied modules contain topics from both mechanics and statistics. **All** modules are compulsory.

What will I study?

In Year 12 you will study 2-AS level modules Units 1 and 2.
In Year 13 you will study 2-A2 level modules Units 3 and 4.

How will I be assessed?

Assessment is entirely through modular examinations:

In Year 12 Units 1 and 2 being examined in May.
In Year 13 Units 3 and 4 being examined in May/June.

CAREER OPPORTUNITIES

The course provides a firm foundation for students who wish to study the subject to degree level. It also provides an excellent base for all science courses and for areas such as finance, economics etc. Students who complete a degree in Mathematics may move into related fields such as Medicine, Accountancy, Engineering and interdisciplinary research/design. Mathematicians are highly numerate, have learnt to think clearly and logically and devise solutions to complex problems. Their skills and versatility make them highly sought after by employers in a wide range of careers.

PROFILE

A level Mathematics is often thought of as a subject of complicated calculations. However, calculations form only a small part of this rigorous discipline which requires clear thinking and the development of specific ideas into generalised solutions. On one hand A level Mathematics deals with highly abstract topics which require considerable imagination combined with the discipline of 'proof'. On the other hand mathematics underpins virtually all the practical developments in science, IT and economics which have formed our modern world.

CONTACT

Subject Lead: Mr S Meredith

ASSESSMENT STRUCTURE

AS Level – Year 12

Unit 1 (AS) - Pure Mathematics A - Written Exam worth 25%. 2 Hour 30 minutes.

Unit 2 (AS) - Applied Mathematics A - Written Exam worth 15%. 1hour 45 minutes.

Section A - Statistics

Section B - Mechanics

A2 Level – Year 13

Unit 3 (A2) - Pure Mathematics B- Written Exam worth 35%. 2 Hour 30 minutes.

Unit 4 (A2) - Applied Mathematics B - Written Exam worth 25%. 1hour 45 minutes.

Section A - Statistics

Section B - Differential equations & Mechanics