

A Level Mathematics – OCR (MEI)

What the course covers

All students will study Core Mathematics, Statistics and Mechanics which will be examined at the end of the course.

Core content includes proof, algebra, functions, graphs, co-ordinate geometry, sequences and series, trigonometry, exponentials and logarithms, calculus, numerical methods and vectors.

Statistics content will include sampling, data presentation and interpretation, probability and hypothesis testing. Much of the work in statistics will involve the use of a large data set which students will be expected to be familiar with in the final examination.

Mechanics content includes models and quantities, kinematics in 1 and 2 dimensions, projectiles, forces, Newton's laws of motion and rigid bodies.

The complete specification can be viewed on the OCR MEI website.

What students can do with this course

An A Level in Mathematics is useful for a wide range of careers and university courses which do not have to be science-based. However, some degree courses will specifically require an A Level in Mathematics e.g. Engineering or Economics. There may be some degree courses that you might think mathematics would be definitely needed for but in fact do not, e.g. Medicine.

How this course is assessed

100% examination

For A Level there are three 2 hour examinations: Pure Mathematics and Mechanics (01), Pure Mathematics and Statistics (02), Pure Mathematics and Comprehension (03). Content from Year 1 will be assessed within final examinations at the end of the second year.

Entry requirements

All our course entry requirements are detailed in the Entry Requirements document located in the admissions section of our website.