STAFFORD
SIXTH FORM

Course title: Mathematics A Level OCR

Academic year:	2026
Course Venue:	Sir Graham Balfour High School
Course Type:	A level
Duration:	2 years

Course Content:
The new Advanced level course has compulsory content consisting of Pure Mathematics, Mechanics and Statistics. There is little variation between examination boards.

Strand	Content	Assessment Method
Pure Mathematics	Proof Algebra Graphs Sequences Trigonometry Logarithms Calculus Vectors	Assessed in papers 1, 2 and 3
Mechanics	Kinematics Motion under gravity Working with forces Newton's laws Simple moments	Assessed in paper 2
Statistics	Working with data from a sample to make inferences about a population Probability calculations Binomial distribution Normal distribution Hypothesis testing	Assessed in paper 3

Students are expected to complete transition materials before commencing the course. The content of these are assessed during the first weeks of the first term.

Additional Information:
Students of Mathematics will:

- Develop their understanding of mathematical principles and their interest in the subject.
- Extend their range of mathematical skills and techniques and use them in more difficult problems.
- Develop the ability to apply mathematical techniques in other subjects.
- Acquire the foundation necessary for the further study of Mathematics and other disciplines.

- Develop the ability to recognise real-life situations which can be modelled mathematically, and knowledge of the appropriate procedures to be followed in order to produce useful results.
- Recognise situations where the use of modern technology is appropriate and be confident in its application.
- Develop confidence and enthusiasm in their approach to the subject.

Entry requirements:
The standard entry criteria to study in the sixth form are a 9-4 in at least seven different subjects, including English and mathematics, which would usually be at grade 4 or above.

To study Mathematics at Advanced level you must achieve at least a grade 6 at GCSE.

Assessment:
The structure of assessment for OCR is for three examination papers. Paper 1 assesses Pure Mathematics, paper 2 assesses Pure Mathematics and Mechanics and paper 3 assesses Pure Mathematics and Statistics

Financial Information:
All students are provided with course-based textbooks as well as free access to a dedicated subscription based website providing a vast array of support materials.

Future opportunities:
Mathematics A level is essential to many scientific/engineering/financial degree courses and is seen as desirable by many others.