What will I learn?

This is an academically rigorous course which is designed to enable students to extend their range of mathematical skills and techniques, apply their knowledge to make logical and reasoned decisions within a variety of contexts, and use technology appropriately. There is an emphasis on problem-solving, proof, and the use of mathematical modelling to represent real situations. The course content has pure and applied mathematics in the ratio 2:1.

Pure Mathematics: Algebra and functions; Coordinate geometry; Trigonometry; Sequences and Series; Exponentials and logarithms; Calculus; Proof; Vectors.

Applied Mathematics: Statistics - Statistical sampling; Data representation and interpretation; Probability; Statistical distributions; Hypothesis testing.

Mechanics - Quantities and units in mechanics; Kinematics; Forces and Newton's Laws.

What can I do next?

Mathematics plays a key role in many areas, for example, within science and industry, construction, aviation, hospitals, marketing, meteorology and manufacturing.

You could take this course to complement other advanced level courses. This may also lead onto a higher education course in Mathematics or a related area. Mathematical skills are invaluable.

Assessment

Assessment of the A Level Mathematics course is by three written examination papers in May/June. There is no coursework component.

Papers 1 and 2 assess the Pure Mathematics content.

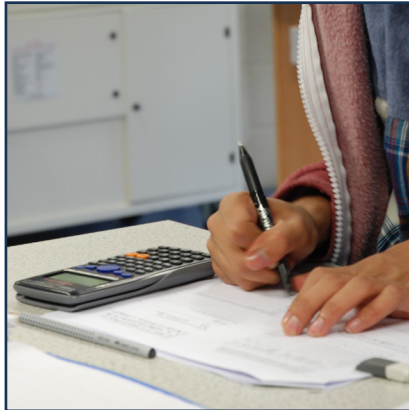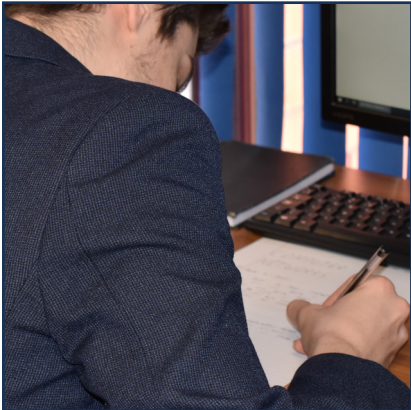Paper 3 assesses both Statistics and Mechanics.

Summary

Level: A Level

Duration: 2 years

Qualification: EDEXCEL Advanced GCE in Mathematics

Entry Requirements: 6 GCSEs graded 5 and above including Mathematics grade 7 or above

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