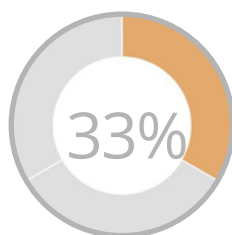


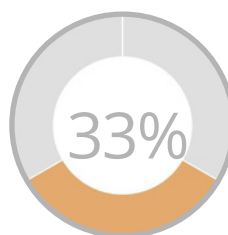
MATHEMATICS

A-Level Mathematics covers the following Pure Mathematics topics: calculus, trigonometry, functions, series and sequences, geometry and algebra. The course also covers topics of Statistics: data analysis, probability, statistical distributions and hypothesis testing and topics in Mechanics: forces, kinematics and projection.

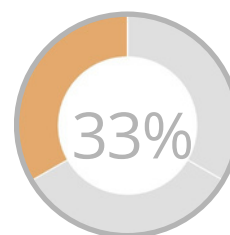
COURSE DASHBOARD



EXAM 1



EXAM 2



EXAM 3

Edexcel Mathematics

Throughout the two-year course, students will study Core Pure Maths topics along with applications of Maths in Statistics and Mechanics. The A-Level Mathematics course builds on the GCSE areas of algebra, geometry, trigonometry, and proportion. To be successful in this course, students are expected to work hard in and out of lessons embedding their learning and developing their mathematical skills as well as their independent working. We also expect students to seek support from their teachers and peers independently. Students will be assessed during each half-term using cumulative assessments to track their progress. In the first year, students will focus on covering the Pure Maths content listed below. In the second year, students will focus on covering the applied Maths content for Statistics and Mechanics content listed below followed by revision of the course content in preparation of their Summer exams.

- Pure Maths: Algebra, Geometry, Trigonometry, Series and Sequences, Functions, Calculus (Differentiation, Integration, Numerical Methods), Exponentials and Logarithms, Mathematical proof, Binomial Expansion
- Statistics: Measures of spread and location, Correlation, Probability, Hypothesis Testing, Probability Distributions, Data collection
- Mechanics: Kinematics, Forces and Motion, Projectiles, Moments
- Students will need a different calculator to the one they used for their Maths GCSE.
- We encourage students to purchase the CASIO calculator fx-991CW or the graphing calculator from CASIO fx-CG100. Students will need to purchase one of these from Amazon and can use their 16-19 Bursary to pay for these should they qualify for the bursary
- We require a grade 7 and above at Higher Maths GCSE to gain entry onto the course.

Paper One	Pure Maths Content	Written Paper: 2 Hours 33%
Paper Two	Pure Maths Content	Written Paper: 2 Hours 33%
Paper Three	Applied Maths Content: Statistics and Mechanics	Written Paper: 2 Hours 33%

WHERE CAN
THIS COURSE
TAKE ME?

EDUCATION...

Mathematics is at the core of education; in an ever more technologically driven society a good grasp of the fundamentals of Mathematics is essential. The subject forms the foundation of a multitude of other subjects and forms a key qualification for entry to many University courses.

CAREERS...

Careers in which Maths is useful or essential include Education, Banking and Finance, Architecture, Graphic Design, Web Design, Market Research, Quantity Surveying, Games Design, Air Traffic Control, Flying and Telecommunications.

For more information, search [Edexcel A Level Maths](#), or email evanderark@jha.keystrust.org or adesmond@jha.keystrust.org