

Type of course – A Level

Course Overview

Students in A level math's will develop an understanding of Mathematics and mathematical processes, they will develop the ability to reason logically and construct mathematical proofs, they will understand coherence and progression in mathematics and how different areas of mathematics are connected.

Course Content

A Level Mathematics

- Pure Mathematics 1
- Pure mathematics 2 builds on and incorporates AS content.
- Statistics

Pure Mathematics

- Proof
- Algebra and functions
- Coordinate geometry
- Sequences and series
- Trigonometry
- Exponentials and logarithms
- Differentiation
- Integration
- Numerical methods
- Vectors

Statistics and Mechanics

- Statistical sampling
- Data presentation and interpretation
- Probability
- Statistical distributions
- Statistical hypothesis testing
- Quantities and units in mechanics
- Kinematics
- Forces and Newton's Law
- Moments

Assessment

Paper 1:

2 hours
100 marks
33.3% of total A Level grade

Paper 2:

2 hours
100 marks
33.3% of total A Level grade

Paper 3:

2 hours
100 marks
33.3% of total A Level grade

Careers and Opportunities for Further Study

- Accounting
- Medicine
- Engineering
- Finance
- Business
- Consultancy
- Teaching
- IT
- Games Development
- Construction
- Astrophysics
- Programming
- Civil Service
- Scientific Research

Entry Requirements

Minimum grade 7 at GCSE Mathematics