Mathematics

Course Overview

Students who achieved highly and enjoyed Mathematics at GCSE will relish the new challenges this subject can offer at A level. The course allows students to broaden their mathematical skills and understanding in different areas of the subject and see how this applies to the real world. A level Mathematics is focused on solving problems, and will require a lot of perseverance but can offer great rewards for those who are prepared to work hard!

Entry Requirements

Grade 7 in GCSE Mathematics is essential.

A-Level

Pure Mathematics
- Algebra and functions
- Coordinate geometry in 2-D
- Sequences and series
- Basic differentiation and integration

Statistics & Mechanics

Statistics
- Representing data
- Probability and random variables
- Correlation and regression

- The normal distribution

Mechanics
- Quantities and units in mechanics
- Kinematics
- Forces and Newton's laws
- Moments

Assessment
- Exponentials and logarithms
- Binomial expansion
- Radians and trigonometry
- More differentiation and integration