

A-level Core Mathematics AS-level

Board and Specification: AQA, Level 3 Mathematical Studies
(Core Maths)

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Subject specific entry requirements

- Minimum Grade 5 in GCSE Mathematics
- Students should have fluent numeric skills and should have an embedded understanding of statistical approaches and techniques met at GCSE.

Modules, titles and codes.

Level 3 Mathematical Studies (1350)

The aim of the course is to consolidate students' mathematical understanding, build their confidence and competence in applying mathematical techniques to solve a range of problems. It aims to introduce them to new techniques and concepts that will assist them in their current A level study, further study and future employment within a broad range of academic, professional and technical fields. Mathematical studies aims to prepare students for the mathematical demands of higher education and work where there is a distinct mathematical or statistical element but where the mathematical demands do not stretch to a requirement for A level mathematics.

There are two papers: Each exam is 1 1/2 hours long with 60 marks available on each paper. Examinations will take place in the Summer of 2021.

Paper 1 : Analysis of data, collecting and sampling data, representing data numerically, representing data diagrammatically, numerical calculations, percentages, interest rates, repayments and the cost of credit, graphical representation, taxation, solution to financial problems, the modelling cycle and Fermi estimation,

Paper 2a: Presenting logical and reasoned arguments in context, communicating mathematical approaches and solutions, analysing critically, properties of the normal distribution, notation, calculating probabilities, population and sample, the mean of sample size n , confidence intervals, correlation and regression, the product moment correlation coefficient (PMCC), regression lines and calculations.

What kind of work will you do in class and at home?

- Students will be taught the skills in class and will practise these skills with tasks and worksheets at home.
- They will be regularly assessed to ensure that they are on track.