Level 3 Certificate Core Mathematical Studies in Sixth Form
1 AS Level (1350)

AS level taught over 2 Years

Core Mathematics Year One

Subject Content
Compulsory content

3.1 Analysis of data
- Data
- Collecting and sampling data
- Representing data numerically
- Representing data diagrammatically

3.2 Maths for personal finance
- Numerical calculations
- Percentages
- Interest rates
- Repayments and the cost of credit
- Graphical representation
- Taxation
- Solution to financial problems

3.3 Estimation
- The modelling cycle
- Fermi estimation

3.4 Critical analysis of given data and models
- Presenting logical and reasoned arguments in context
- Communicating mathematical approaches and solutions
- Analysing critically

Core Mathematics Year Two

Subject Content
Compulsory content

3.11 Graphical methods
Graphs of functions
Intersection points

3.12 Rates of change
Gradient
Average speed
Speed and acceleration

3.13 Exponential functions
The function ax
The number e
Exponential growth and decay

Assessment Overview A level

Paper 1	Paper 2
• 3.1 • 3.2 3.3	Graphical Techniques • 3.4 • 3.11 • 3.12 • 3.13
Assessment is 1 hours 30 mins 60 marks	Assessment is 1 hour 30 mins 60 marks
50% of total AS level	50% of total AS level

What could this qualification lead to?

Core Maths is about students doing meaningful mathematical problems to increase their confidence in using mathematics to be better equipped for the mathematical demands of other courses, higher education and employment.