



## Level 3 AQA Mathematical Studies

# CORE MATHS

### Contact:

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### What will I study?

- Data and Sampling
- Representing data numerically and diagrammatically
- Number work which includes algebraic substitution, limits of accuracy, approximating problems in context, percentage changes, simple and compound interest, savings and investment studies.
- Money for personal use which includes repayment and cost of credit, tax, National insurance and VAT, interpreting results from graphs in financial contexts, Retail and Consumer Price Indexes, currency exchanges, budgeting
- Estimation using Fermi
- Critical analysis where students must present logical and reasoned arguments in context, communicate mathematical approaches and solutions and critically analyse the validity of data quoted in media, political campaigns, marketing.
- Normal distribution and confidence intervals where we research the distribution and use it to find probabilities
- Correlation and Regression where we recognise if pairs of data are linked, calculate the Pearson Moment Correlation Coefficient and use the best line of best fit to make predictions.

### How will I be assessed?

This is a linear course over 2 years. You will take two 90-minute examinations at the end of the course. You should have a scientific calculator. Paper 1 assesses Analysis of data, Maths for Personal Finance and Estimation. Paper 2A: Statistical Techniques assesses Critical Analysis of given data and models, the Normal

Distribution and Confidence Intervals, and Correlation and Regression. Preliminary Material is made available a few weeks before the exam and can be referenced in both papers. Formulae sheets and Statistical tables are used where appropriate.

### How I learn?

There are 3 hours of lessons a fortnight. Regular homework will be expected to be completed with regular assessments set based on the exam board style of questions.

### Career & Pathway

Maths is for everyone. It is diverse, engaging and essential in equipping students with the right skills to reach their future destination, whatever that may be. Level 3 Mathematical Studies (Core Maths) is a new qualification designed for students who have achieved a grade 4 or above at GCSE but have decided not to study A level mathematics.

Those who have studied GCSE Statistics will find there is a lot of crossover into this course, and indeed a lot of crossover from GCSE Mathematics; up to 80% can be GCSE Higher content. The course is equivalent to an AS level over two years so would combine with an EPQ to make a third or fourth A level, and some Universities reduce offers if you have Core Maths.