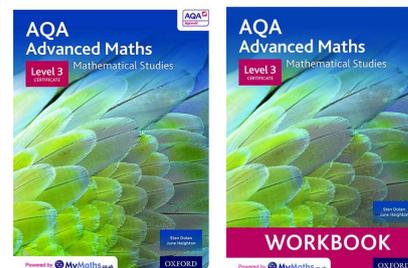


# Welcome to Core Maths (L3 Certificate in Mathematical Studies)

## - What you can read:

AQA Mathematical Studies Student Book: Level 3 Certificate  
<https://www.aqabookshop.co.uk/product/aqa-mathematical-studies-student-book-level-3-certificate/standolan/9780198365938/>

AQA Mathematical Studies Workbook: Level 3 Certificate  
<https://www.aqabookshop.co.uk/product/aqa-mathematical-studies-workbook-level-3-certificate-core-maths/standolan/9780198417095/>



Further information about Core maths: <https://amsp.org.uk/teachers/core-maths/>

AQA Core Maths Specification: <https://www.aqa.org.uk/subjects/mathematics/level-three/mathematics-1350/specification>

## - What you can watch:

TLMaths has made a playlist on Core maths topics. You can find them here: <https://www.youtube.com/@TLMaths>

## - What are some of the topics and skills that you will cover:

Below are some of the key topics and skills that we will cover in Paper 1.

Topics	Breakdown
Interpreting & Analysing Data	<ul style="list-style-type: none"><li>• Read and interpret tables, charts, and graphs</li><li>• Compare data set,</li><li>• Interpret box plots and histograms</li><li>• Draw conclusions from real-life data</li></ul>
Averages, Spread & Correlation	<ul style="list-style-type: none"><li>• Calculate and interpret mean, median, mode</li><li>• Use range and interquartile range (IQR)</li><li>• Identify correlation using scatter graphs</li></ul>
Personal Finance & Money	<ul style="list-style-type: none"><li>• Calculate income, tax, and National Insurance</li><li>• Understand simple and compound interest</li><li>• Compare loans, savings, and financial options</li></ul>

Below are some of the key topics and skills that we will cover in Paper 2A.

Correlation & Regression	<ul style="list-style-type: none"> <li>• Identify positive, negative, or no correlation</li> <li>• Draw and interpret a regression line</li> <li>• Use the regression line to make predictions</li> </ul>
Normal Distribution	<ul style="list-style-type: none"> <li>• Recognise a normal distribution as a symmetrical, bell-shaped graph</li> <li>• Understand standard deviation as a measure of spread</li> <li>• Use the 68–95–99.7 rule to estimate proportions</li> <li>• Calculate probabilities above, below, or between values</li> <li>• Decide whether results are typical or unusual in context</li> </ul>
Confidence Interval	<ul style="list-style-type: none"> <li>• Understand a confidence interval as a range of likely values</li> <li>• Interpret a 95% confidence interval correctly in context</li> <li>• Use confidence intervals to judge reliability</li> </ul>

- **Tasks you can do to prepare you:**

<b><u>Task</u></b>	<b><u>Link to the course/specification</u></b>
<p>Work through the exercises at <a href="https://www.savemyexams.com/level-3/maths/aqa/mathematical-studies-core-maths/14/paper-1-data-finance-estimation-and-modelling/revision-notes/personal-finance/personal-finance-toolkit/percentages-for-finance/">https://www.savemyexams.com/level-3/maths/aqa/mathematical-studies-core-maths/14/paper-1-data-finance-estimation-and-modelling/revision-notes/personal-finance/personal-finance-toolkit/percentages-for-finance/</a></p> <p>These are very important skills for beginning Core Maths.</p>	<p>These tasks cover a range of topics in the specification, such as:</p> <ul style="list-style-type: none"> <li>• Calculating percentage change (increase and decrease)</li> <li>• Using repeated percentage change in financial contexts</li> <li>• Understanding and comparing simple and compound interest</li> <li>• Interpreting financial information such as prices, discounts, and pay</li> <li>• Making financial decisions using percentages</li> <li>• Explaining answers clearly in context</li> </ul>

- **Contact information**

If you have questions regarding this or any other A Level course at Burnley College, please contact [alevels@burnley.ac.uk](mailto:alevels@burnley.ac.uk) or call 01282 733373

We look forward to seeing you in September.