

**Subject:** Level 3 Mathematical Studies (Core Maths)

**Year 12**

**Analysis of Data:** Students will explore and understand types of data and sampling methods. They will learn methods of processing data (mean, quartiles, standard deviation) and representing data (histograms, box plots).

**Personal Finance:** Students will develop their knowledge of percentages, interest and loans and mortgages. They will calculate AER, APR, RPI, CPI, tax, national insurance and VAT, as well as examining exchange rates and thinking about budgeting.

**Estimation:** Students will learn about fermi estimation, evaluating methods and interpretation.

**Critical Analysis of Data:** Students will begin to criticise mathematical methods and examine data in the media.

**Critical Path Analysis:** Students will use algorithms and learn about activity networks and Gantt charts.

**Expectation:** Students will develop their knowledge of probability, using Venn diagrams and probability tree diagrams, comparing experimental and theoretical probabilities.

**Cost Benefit Analysis:** Students will examine control measures and complete risk analyses.