

3.3 Unit M2: Foundation Tier

This unit targets grades C*, C, D, E, F and G at GCSE Level and Level 2 in Functional Mathematics.

Students should know the content of Unit M1 before taking this unit.

Content	Learning Outcomes
Number and algebra	<p>Students should be able to:</p> <ul style="list-style-type: none"> ● use index notation and index laws for positive, whole number powers; ● use the concepts and vocabulary of divisor, highest common factor, least (lowest) common multiple and prime factor decomposition; ● add, subtract, multiply and divide decimals of any size; ● round to a specified or appropriate number of significant figures; ● recognise that recurring decimals are exact fractions and that some exact fractions are recurring decimals; ● add, subtract, multiply and divide fractions, including mixed numbers; ● use percentage and repeated proportional change; ● calculate with money and solve problems in a finance context, for example compound interest, insurance, taxation, mortgages and investments; ● simplify and manipulate algebraic expressions by multiplying a single term over a bracket; and ● manipulate algebraic expressions by taking out common factors that are terms.

Content	Learning Outcomes
Handling data	<p>Students should be able to:</p> <ul style="list-style-type: none">• use 3 circle Venn diagrams to sort data;• estimate mean from a grouped frequency distribution;• identify the modal class and the median class from a grouped frequency distribution;• draw and/or use lines of best fit by eye, understanding what these lines represent;• draw conclusions from scatter diagrams;• use terms such as positive correlation, negative correlation and little or no correlation;• interpolate and extrapolate from data and know the dangers of doing so;• identify outliers; and• appreciate that correlation does not imply causality.