

• Curriculum Overview Template

	Focus	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 13 core maths	Topic	1). Critical Analysis 2). Representing data Diagrammatically	1). Representing data numerically 2). Correlation and Regression	1) Critical Analysis 2 2) Repayments and credits 3) APR	1) Limits of Accuracy 2) Confidence Intervals	1) Structured Revision in class directed by the class teacher	Year 13 are off timetable for independent revision until their final exam.
	Key concepts/ideas	1a). To check claims made in media outlets by analysing the underpinning data in their argument. 1b). Suggest improvements and criticise of diagrammatical data 1c). Analyse data from a spreadsheet or a table 2a). Draw a histogram and cumulative frequency diagram 2b). Calculate frequency density, Upper and lower quartiles, Inter quartile range from visual representations. 2c) Calculate percentiles based on the visual representation.	1a) Select appropriate measures based on the data and what you are trying to calculate 1b) Understand the differences between continuous and discrete data 2a) Know the difference between correlation and causation. 2b) Know how to demonstrate a causal link. 2c) that extrapolation occur outside your data set 2d) That interpolation occurs inside your data set.	1a). To check claims made in media outlets by analysing the underpinning data in their argument. 1b). Suggest improvements and criticise of diagrammatical data 1c). Analyse data from a spreadsheet or a table 2a). Understand how repayments of student loans and mortgages work. 2b). Understand the difference between a credit card and a debit card. 3). Understand what APR is	1). Understand that rounded numbers can only be assumed to be accurate within a certain range of values. 2). Understand what a confidence interval is and how it can be interpreted based on weather data falls within or outside the range of values it gives	1). Recap key topics and focus on areas of weakness. 2.) Highlight any topics based on the pre-release.	
	Key skills	1a.) Reading and interpreting data from a variety of sources. 1b.) Checking the validity of claims 2a). Interpreting cumulative frequency and histograms 2b). Carrying out numerical calculations based on histograms and cumulative frequency diagrams	1a). To be able to interpret data from tables, spreadsheets and a variety of numerical formats 1e) Calculate the standard deviation, mean, mode, median, range, inter quartile range in a variety of contexts. 2a) Be able to calculate the Product Moment Correlation Coefficient (PMCC). 2b) Be able to interpret the PMCC 2c) be able to calculate the intercept and gradient of a line of regression 2d) Be able to plot a line of regression based on the calculation above. 2e) To be able to interpret and predict values based on a line of best fit 2f) Know the difference between interpolation and extrapolation and the reliability of each.	1a) Check and spot mistakes in calculations made. Particularly with percentages. 1b) Evaluate faulty assumptions 2a). Calculate repayments and interest in specific years for student loans. 2b) Calculate repayments and interest in specific years to do with mortgages. 2c) Calculate repayments and interest in specific months for credit cards. 2d) Be able to calculate VAT on products 3). Use the APR formula to calculate time of loan, cost of loan and the interest on a loan.	1). Calculate upper and lower bounds 2.) Calculate confidence intervals for samples of populations that are normally distributed.	1). Effective revision skills. Identifying a area of weakness, Reminding yourself of key concepts and calculations, Answering questions on that topic, Checking you got it correct, and seeking help if you didn't or changing to a different topic if you did. 2.) Revision topics based on pre-release.	
Key terms/vocab	Show, Critically Analyse, Improvements, Errors Histogram, Cumulative frequency, Quartile, Inter-quartile Range, Spread, Medium, Percentile	Correlation, Causation, Standard deviation, Variance, Mean, Mode, Median, Range, Quartile, Percentile, Regression, Line of	Credit, Debit, Mortgage, Loan, Student Loan, APR, AER, Show, Evaluate, VAT,	Standard deviation, Standardised value, Mean, Population, Normally	Revision, Independent, Structured		

			best fit, Extrapolation, Interpolation, PMCC, Line of regression	Critically Analyse, Improvements, Errors	Distributed, Upper bound, Lower bound,		
	Independent learning / wider reading	1). Homework's set by class teacher, marked and fed back. 2) Any pop science book relevant to the students' interests.	1). Homework's set by class teacher, marked and fed back 2) Revision resource for Autumn Exams	1). Homework's set by class teacher, marked and fed back. 2) Revision resources for MOCK exams	1). Homework's set by class teacher, marked and fed back	1). Homework's set by class teacher, marked and fed back	Past papers from AQA. Consolidation exercises shared with students.
	Assessment		Assessment for Autumn Reports	Year 13 Mock Exams		Continuous Assessment from Past papers and other materials checked by class teacher	Be available for any queries prior to the exam.
	Careers links	Any job in the following fields where you might have to present and analyse data: Sciences, PR, HR Marketing, Civil servants, Intelligence, Law, Teacher, Medicine, Economics, ect	Any job in the following fields where you might have to interpret numerical data and calculate correlations and regressions: Sciences, PR, HR Marketing, Civil servants, Intelligence, Law, Teacher, Medicine, Economics, politics, media, logistics ect	Any job in the following fields where you might have to analyse claims and calculate repayments: Sciences, PR, HR Marketing, Civil servants, Intelligence, Law, Teacher, Medicine, Economics, politics, media, finance, business ect	Any job in the following fields where you might have to analyse claims biased on a sample and calculate confidence intervals: Sciences, Teacher, Medical research, Economics, engineer, logistics ect	Any job in the following fields where you have to revise in your own time for professional qualifications: Sciences, PR, HR Marketing, Civil servants, Intelligence, Law, Teacher, Medicine, Economics, politics, media, finance, business ect	Any job in the following fields where you have to revise in your own time for professional qualifications: Sciences, PR, HR Marketing, Civil servants, Intelligence, Law, Teacher, Medicine, Economics, politics, media, finance, business ect