



Curriculum Plan Mathematics

Year 12 Core Maths	Knowledge (Topics covered, NC links)	Subject Skills	Literacy and Numeracy	School values (Attitude / Achievement / Community / Endeavour)	Extra curricular opportunities	Personal development (Character, SMSC, Fundamental British values, Careers guidance, healthy living, Citizenship, equality and diversity, financial capability, preparation for next stage)
Cycle 1	Representing numerically	Calculating averages and spread of data	Core Maths involves extensive numeracy, calculations, understanding of the context of results and estimation.	Community : Most Core maths learning is done in collaboration with other students.		Citizenship: using world knowledge
	Percentages	Calculations using percentages	Core Maths involves extensive numeracy, calculations, understanding of the context of results and estimation.	Community : Most Core maths learning is done in collaboration with other students.		
	Using the Normal distribution	Understanding the Normal distribution and relating it to mean averages and standard deviation	Core Maths involves extensive numeracy, calculations, understanding of the context	Community : Most Core maths learning is done in collaboration with other		Understanding characteristics of whole populations.



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			of results and estimation.	students. Endeavour: challenging topic.		
	Analysing critically	Analysing newspaper headlines to decide whether they are mathematically valid. Developing critical analysis skills.	Literacy: understand how subtle changes in language can affect meaning.	Community : Most Core maths learning is done in collaboration with other students.		Citizenship: using world knowledge
	Numerical Calculations	Bounds of a rounded number. Limits of accuracy. Excel skills.	Core Maths involves extensive numeracy, calculations, understanding of the context of results and estimation.	Community : Most Core maths learning is done in collaboration with other students.		IT skills.
	Interest Rates and AER	Calculating the interest you are due on your savings.	Core Maths involves extensive numeracy, calculations, understanding of the context of results and estimation.	Community : Most Core maths learning is done in collaboration with other students.		Financial capability



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Cycle 2	Representing Graphically	Representing raw data using graphs like histograms, cumulative frequency curves.	Core Maths involves extensive numeracy, calculations, understanding of the context of results and estimation.	Community: Most Core maths learning is done in collaboration with other students.		Citizenship: using world knowledge
	Fermi Estimations	Using an estimation process to answer a question when you have no raw data.	Core Maths involves extensive numeracy, calculations, understanding of the context of results and estimation.	Community: Most Core maths learning is done in collaboration with other students.		Citizenship: using world knowledge. Health living.
	Probabilities	Using sampling to calculate probabilities for the whole population	Core Maths involves extensive numeracy, calculations, understanding of the context of	Community: Most Core maths learning is done in collaboration		



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			results and estimation.	with other students.		
	Taxation	Calculating the income tax and national insurance payable at different gross salaries.	Core Maths involves extensive numeracy, calculations, understanding of the context of results and estimation.	Community: Most Core maths learning is done in collaboration with other students. Endeavour: challenging topic.		Financial capability
	Mean Average of a sample	How the mean average of a sample can represent the mean average of the whole population.	Core Maths involves extensive numeracy, calculations, understanding of the context of results and estimation.	Community: Most Core maths learning is done in collaboration with other students. Endeavour: challenging topic.		
	Confidence Intervals	The interval within which you can be confident that the mean average of the sample can represent the mean average of the whole population.	Core Maths involves extensive numeracy, calculations, understanding of the context of	Community: Most Core maths learning is done in collaboration with other		



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Core Maths	Financial problems	AER, APR, Tax, Student loans, percentages questions as exam problems.	Core Maths involves extensive numeracy, calculations, understanding of the context of results and estimation.	Community: Most Core maths learning is done in collaboration with other students.		Financial capability
	Repayments and APR	How much you need to pay back on loans that you have taken out. Including mortgages and student loans.	Core Maths involves extensive numeracy, calculations, understanding of the context of results and estimation.	Community: Most Core maths learning is done in collaboration with other students. Endeavour: challenging topic.		Financial capability



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Cycle 3	Repayments and APR	How much you need to pay back on loans that you have taken out. Including mortgages and student loans.	Core Maths involves extensive numeracy, calculations, understanding of the context of results and estimation.	Community: Most Core maths learning is done in collaboration with other students. Endeavour: challenging topic.		Financial capability
	Correlation and Regression	Quantify the extent to which two different sets of data affect each other.	Core Maths involves extensive numeracy, calculations, understanding of the context of results and estimation.	Community: Most Core maths learning is done in collaboration with other students. Endeavour: challenging topic.		

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