Core Maths Scheme of Learning		
3 lessons	INTRO – TALKING ABOUT MATHS	Contexts/problems
Objectives	 Use of spreadsheets, tables and data charts Use of mathematical context 	What do you notice? What do you wonder?
and	 Apply previous knowledge from GCSE to solve problems including area, equations of lines, similar shapes and Pythagoras 	
Common misconceptions	 Apply knowledge of fractions and percentages to solve problems involving personal finance Critically analyse data charts Discuss mathematical thinking with others to explain potential methods and solutions 	Short tasks: Where's the maths in that? https://amsp.org.uk/resource/wheres-the- maths-in-that
Tier 2 Vocab	Discuss, analyse, use, explain, compare, similar, different, convert	Missing numbers
Tier 3 Vocab	Mathematical thinking, critically analyse, data, primary, secondary, formulae, average, axis, scale, box plot, bar chart, compound bar chart, pie chart, frequency, pictograph, infographic, irregular shape, area, perimeter, surface area, ratio, percentage	Voting Running your own car Running smart Maps and measuring Ice cream cones
Homework	Source two data charts amd critically analyse them Present a given data set in the most appropriate way	
Careers links	Graphic designer https://www.unifrog.org/student/careers/keywords/graphic-designer	
Employability skills	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positiveFeasibleFeasible	
Cross-curricular links	PE (running smart) PHSE (running your own car, voting) Geography (maps and measuring)	
9 lessons	FERMI ESTIMATION	Contexts/problems
Objectives and	 Solve open mathematical problems Use real-life contexts Apply prior mathematical knowledge e.g. estimations, measures Understand the difference between Fermi and other estimation techniques Represent a mathematical situation graphically 	<u>Short tasks:</u> How much water does a hamster need per day? How people in this photo? How far do you walk in a lifetime?
Common misconceptions	 Select appropriate mathematical techniques Interpret results in context Evaluate methods and solutions, understand there may be more than one possible solution/method Make considered assumptions 	How many people can stand in Trafalgar Square? How many cells in your hand? How many jelly beans would fit in a double
Specification	E1.1, E1.2, E1.3, E1.4,	uecker bus:
Tier 2 Vecab	E2.1	4
	Assumption, apply, evaluate, interpret, consider, appropriate, solution, method	

Tier 3 Vocab	Estimate, Fermi, measure, modelling, data handling cycle, area, density, formulae, volume, distance, scale, population conjecture	Longer tasks: Can everyone in the world fit onto the Isle of
Homework	Develop Fermi exam question for another student (must also have worked solution) Fermi past-examination questions	Wight? Are you using enough sun cream?
Career links	Mechanical engineer https://www.unifrog.org/student/careers/keywords/mechanical-engineer	supermarket? How many schools in England?
Employability skills	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positiveFeasibleFeasible	
Cross-curricular links	Biology/ Applied Science (how much water does a hamster need, how many cells in your hand) Geography (how many people can you fit in Trafalgar Square, can you fit everyone in the world on Isle of Wight)	
Assessment	Past exam questions Verbal discussions/questioning	
12		Courteurte (una blanna
12 lessons	PERSONAL FINANCE	Contexts/problems
Objectives and Common misconceptions	 Set up, solve and interpret solutions to financial problems Calculate percentage of amounts, percentage change, percentage increase/decrease and reverse percentages Know and understand income tax and national insurance rates Convert between currencies (including examples which involve commission or buy/sell rates) Understand the concept of APR and AER and how these apply to mortgages, credit, loans etc Compare financial products using mathematical workings Calculate financial aspects of mortgages using iteration Apply indices laws to RPI, CPI and inflation Discuss mathematical thinking with others to explain potential methods and solutions Use of written information, spreadsheets, tables and data charts Substitute numerical values into formulae, spreadsheets and financial expressions 	Short tasks Money Diaries https://natwest.mymoneysense.com/young- adults/money-diaries/ Payday low down https://natwest.mymoneysense.com/young- adults/videos/payday-lowdown/ Tax the rich http://www.magicalmaths.org/smsc-starter- tax-the-rich-an-animated-fairy-tale/ Budgetting for a (career of their choice)
	Apply and interpret limits of accuracy, specifying simple error intervals due to truncation or rounding	Basket Case
	Use of mathematical context	http://quibans.blogspot.com/2022/02/quiban
Specification links	F1.1., F1.2, F1.3, F1.4 F2.1, F2.2, F2.3, F2.4, F2.5 F3.1, F3.2 F4.1 F5.1 F6.1 F7.1, F7.2, F7.3, F7.4	<u>s-104-basket-case.html</u> <u>Longer tasks</u> Cost of living crisis Can I afford university? This or that House prices
Tier 2 Vocab	Currency, spreadsheet, formula, percentage, increase, decrease, method, solution, explain, discuss, apply, interpret, solve, calculate, finance, mortgage, loan, interest, compare	

Tier 3 Vocab	Rounding, truncation, reverse percentage, APR, AER, compound interest, simple interest, limits of accuracy, VAT, inflation, commission, iteration, expression, substitution,	
Homework	Create budget with given outgoings dependent on future career choice (use of Unifrog to research expected wage) Compare two or more financial options to find the most suitable Past GCSE exam questions relating to percentages, iteration etc <u>https://padlet.com/lastcenturion1985/CoreMathsAQA/wish/533715047</u> Past Core Maths exam questions relating to personal finance	
Career links	Financial accountant <u>https://www.unifrog.org/student/careers/keywords/financial-accountant</u>	
Employability skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive Fresenting Fresenting Fresenting	
Cross-curricular links	Guidance – careers (finance)	
Assessment	Past exam questions In-class mock assessment of learning – Fermi and personal finance Verbal discussions/questioning	
15 lessons	ANALYSIS OF DATA	Contexts/ problems
Objectives and <mark>Common</mark> misconceptions	 Know the difference between primary and secondary data Understand the data handling cycle Understand different forms of sampling and the benefits and limitations of each method Construct statistical diagrams to represent data – grouped, continuous and discrete data Interpret statistical diagrams Critically analyse statistical diagrams, media reports Calculate averages including mean, median, mode, range, interquartile range Interpret numerical measures and use these to compare data sets 	<u>Short tasks:</u> UK population statistics Random Penguins <u>https://teacher.desmos.com/activitybuilder/c</u> <u>ustom/56f04aeccbbedf0607bbb626</u> What is normal body temperature? Winning the heptathlon What's Misleading graphs
Specification links	D1.1, D1.2, D1.3 D2.1, D2.2 D3.1, D3.2 D4.1	https://www.statisticshowto.com/probability -and-statistics/descriptive- statistics/misleading-graphs/
Tier 2 Vocab	Analyse, compare, calculate, critical, data, benefit, limitations	Longer tasks:
Tier 3 Vocab	Continuous, discrete, box plots, cumulative frequency, stem plots, grouped data, histograms, sampling, random, systematic, mean, median, qualitative, quantative, capture/recapture, cluster, stratified, limitations,	Campaigning for change Are males really taller than females? When will women get equal pay?
Homework	Statistical diagrams GCSE recap questions Past exam questions Standard deviation questions	Shopping habits

	Data Analyst	
Career links	https://www.unifrog.org/student/careers/keywords/data-analyst-statistician	
Employability skills	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positiveFeamworkFeamwork	
Cross-curricular links	Geography (population statistics) PE (improving physical performance) Guidance (democracy – campaigning for change) Biology (
Assessment	Past exam questions Paper 1 mock examination Verbal discussions/questioning	
12 lessons		Contexts/ problems
Objectives	 Recognise that normal distribution is symmetrical Understand that the area underneath the normal 'bell' shaped curve represents probability Use the correct notation relating to standard deviation, population, sample, sum of etc 	
and Common misconceptions	 Understand that approximately 2/3 of observations lie within 1 standard deviation of the mean, and that approximately 95% of observations lie within 2 standard deviations of the mean Use of the notation N(μ,σ2) to describe a normal distribution in terms of mean and standard deviation Use a calculator or tables to find probabilities for normally distributed data with known mean and standard deviation deviation 	<u>Short tasks:</u> Life of an electrical component
Specification links	\$1.1 \$2.1 \$3.1	Longer tasks:
Tier 2 Vocab	Symmetrical, calculate, table, chart, graph, mean, probability	The e mark
Tier 3 Vocab	Distribution, normal distribution, standard deviation, notation	Over the Hill
Homework	Use Excel to create a chart to show results from a norm (will create a bell shape) Calculating standard deviation Past Core Maths exam paper questions	<u>https://www2.census.gov/programs-</u> surveys/sis/activities/math/hm-2_teacher.pdf
Career links	Food manufacturing inspector https://www.unifrog.org/student/careers/keywords/food-manufacturing-inspector	
Employability skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive Fresenting Fresenting Fresenting	
Assessment	Past exam questions Verbal discussions/questioning	
12 lessons	PROBABILITIES & ESTIMATION	Contexts/ problems
Objectives	Understand what is meant by the term 'population'	Short tasks:
	Develop ideas of sampling and know the benefits and potential drawbacks of each method	which sample?

and	Know that the mean of a sample is called a 'point estimate' for the mean of the population	Population signs
	Recognise that sample size is likely to affect accuracy	https://meiassets.blob.core.windows.net/am
Common	 Find confidence intervals within a normal distribution 	sp-uploads/uploads/files/4 Teacher sheet -
misconceptions		_Population_signs.pdf
Specification	S4.1, S4.2	
Specification	S5.1	Longer tasks:
IIIIKS	S6.1	Working with large data sets
Tier 2 Vocab	Benefits, drawbacks, develop, understand, recognise, calculate, mean, accuracy	https://mei.org.uk/teachers/a-level-
Tier 3 Vocab	Population, normal distribution, variance, sample, random sample, confidence intervals	mathematics/resources/working-with-large-
	Use various sampling methods with a data set to explore differences in results	data-sets/
Homework	Past GCSE questions relating to sampling and population (capture/recapture)	
	Past Core Maths exam questions relating to probability and estimation and population	
	Consumer scientist	
Career links	https://www.unifrog.org/student/careers/keywords/consumer-scientist	
	Aiming high Literacy Creativity Numeracy Leadership	
Employability	Independence Listening Communication Presenting Teamwork	
skills	Problem solving Staving positive	
	Past exam questions	
Assessment	Verbal discussions/questioning	
12 lessons	CORRELATION & REGRESSION **PRE RELEASE MATERIALS WITHIN MARCH**	Contexts/ problems
12 lessons	CORRELATION & REGRESSION **PRE RELEASE MATERIALS WITHIN MARCH** • Recognise whether pairs of data are correlated or not – strong, positive or negative correlation	Contexts/ problems Short tasks:
12 lessons	CORRELATION & REGRESSION **PRE RELEASE MATERIALS WITHIN MARCH** • Recognise whether pairs of data are correlated or not – strong, positive or negative correlation • Understand that correlation does not always imply causation	Contexts/ problems Short tasks: Reaction times
12 lessons Objectives	CORRELATION & REGRESSION **PRE RELEASE MATERIALS WITHIN MARCH** • Recognise whether pairs of data are correlated or not – strong, positive or negative correlation • Understand that correlation does not always imply causation • Identify and understand outliers and make decisions whether or not to include them when drawing a line of best	Contexts/ problems Short tasks: Reaction times https://meiassets.blob.core.windows.net/am
12 lessons Objectives	CORRELATION & REGRESSION **PRE RELEASE MATERIALS WITHIN MARCH** • Recognise whether pairs of data are correlated or not – strong, positive or negative correlation • Understand that correlation does not always imply causation • Identify and understand outliers and make decisions whether or not to include them when drawing a line of best fit	Contexts/ problems Short tasks: Reaction times https://meiassets.blob.core.windows.net/am sp-
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12 lessonsObjectivesandCommonmisconceptionsSpecificationlinksTier 2 Vocab	CORRELATION & REGRESSION **PRE RELEASE MATERIALS WITHIN MARCH** • Recognise whether pairs of data are correlated or not – strong, positive or negative correlation • Understand that correlation does not always imply causation • Identify and understand outliers and make decisions whether or not to include them when drawing a line of best fit • Use product moment correlation coefficient (PMCC) to find the strength of correlation • Know the significance of positive, negative and 0 as PMCC results • Plot lines of best fit on scattergraphs • Plot a regression line from its equation • S7.1, S7.2, S7.3 \$8.1, \$8.2, \$8.3 \$9.1, \$9.2, \$9.3, \$9.4, \$9.5 \$10.1 Positive, negative, recognise, identify, calculate, plot, scattergraph, correlation, accuracy	Contexts/ problems Short tasks: Reaction times https://meiassets.blob.core.windows.net/am Sp- uploads/uploads/files/6 Reaction time inves tigationAQA_version.pdf https://teacher.desmos.com/activitybuilder/c ustom/5f7dd5fd144f450c73185953 Spurious correlations https://www.tylervigen.com/spurious-correlations Premier League festive fixtures: Which clubs have toughest schedule? http://quibans.blogspot.com/search?q=correl
12 lessonsObjectivesandCommonmisconceptionsSpecificationlinksTier 2 VocabTier 3 Vocab	CORRELATION & REGRESSION **PRE RELEASE MATERIALS WITHIN MARCH**• Recognise whether pairs of data are correlated or not – strong, positive or negative correlation• Understand that correlation does not always imply causation• Identify and understand outliers and make decisions whether or not to include them when drawing a line of best fit• Use product moment correlation coefficient (PMCC) to find the strength of correlation• Know the significance of positive, negative and 0 as PMCC results• Plot lines of best fit on scattergraphs• Plot a regression line from its equation• Understand the potential problems of extrapolation\$7.1, \$7.2, \$7.3\$8.1, \$8.2, \$8.3\$9.1, \$9.2, \$9.3, \$9.4, \$9.5\$10.1Positive, negative, recognise, identify, calculate, plot, scattergraph, correlation, accuracyCausation, outlier, significance, pmcc, regression, regression line, extrapolation	Contexts/ problems Short tasks: Reaction times https://meiassets.blob.core.windows.net/am sp- uploads/uploads/files/6 Reaction time inves tigation AQA_version.pdf https://teacher.desmos.com/activitybuilder/c ustom/5f7dd5fd144f450c73185953 Spurious correlations https://www.tylervigen.com/spurious- correlations Premier League festive fixtures: Which clubs have toughest schedule? http://quibans.blogspot.com/search?q=correl ation
12 lessons Objectives and Common misconceptions Specification links Tier 2 Vocab Tier 3 Vocab	CORRELATION & REGRESSION **PRE RELEASE MATERIALS WITHIN MARCH** • Recognise whether pairs of data are correlated or not – strong, positive or negative correlation • Understand that correlation does not always imply causation • Identify and understand outliers and make decisions whether or not to include them when drawing a line of best fit • Use product moment correlation coefficient (PMCC) to find the strength of correlation • Know the significance of positive, negative and 0 as PMCC results • Plot lines of best fit on scattergraphs • Plot a regression line from its equation • Understand the potential problems of extrapolation \$7.1, \$7.2, \$7.3 \$8.1, \$8.2, \$8.3 \$9.1, \$9.2, \$9.3, \$9.4, \$9.5 \$10.1 Positive, negative, recognise, identify, calculate, plot, scattergraph, correlation, accuracy Causation, outlier, significance, pmcc, regression, regression line, extrapolation	Contexts/ problems Short tasks: Reaction times https://meiassets.blob.core.windows.net/am sp- uploads/uploads/files/6 Reaction time inves tigation - AQA_version.pdf https://teacher.desmos.com/activitybuilder/c ustom/5f7dd5fd144f450c73185953 Spurious correlations https://www.tylervigen.com/spurious- correlations Premier League festive fixtures: Which clubs have toughest schedule? http://quibans.blogspot.com/search?q=correl ation Names most commonly linked with crime
12 lessons Objectives and Common misconceptions Specification links Tier 2 Vocab Tier 3 Vocab	CORRELATION & REGRESSION **PRE RELEASE MATERIALS WITHIN MARCH** • Recognise whether pairs of data are correlated or not – strong, positive or negative correlation • Understand that correlation does not always imply causation • Identify and understand outliers and make decisions whether or not to include them when drawing a line of best fit • Use product moment correlation coefficient (PMCC) to find the strength of correlation • Know the significance of positive, negative and 0 as PMCC results • Plot lines of best fit on scattergraphs • Plot a regression line from its equation • Understand the potential problems of extrapolation \$7.1, \$7.2, \$7.3 \$8.1, \$8.2, \$8.3 \$9.1, \$9.2, \$9.3, \$9.4, \$9.5 \$10.1 Positive, negative, recognise, identify, calculate, plot, scattergraph, correlation, accuracy Causation, outlier, significance, pmcc, regression, regression line, extrapolation GCSE scattergraph and correlation questions Hegarty – scattergraph and correlation	Contexts/ problems Short tasks: Reaction times https://meiassets.blob.core.windows.net/am Sp- uploads/uploads/files/6 Reaction time inves tigationAQA_version.pdf https://teacher.desmos.com/activitybuilder/c ustom/5f7dd5fd144f450c73185953 Spurious correlations https://www.tylervigen.com/spurious- correlations Premier League festive fixtures: Which clubs have toughest schedule? http://quibans.blogspot.com/search?q=correl ation Names most commonly linked with crime http://quibans.blogspot.com/2021/05/quiban
12 lessonsObjectivesandCommonmisconceptionsSpecificationlinksTier 2 VocabTier 3 VocabHomework	CORRELATION & REGRESSION **PRE RELEASE MATERIALS WITHIN MARCH**• Recognise whether pairs of data are correlated or not – strong, positive or negative correlation• Understand that correlation does not always imply causation• Identify and understand outliers and make decisions whether or not to include them when drawing a line of best fit• Use product moment correlation coefficient (PMCC) to find the strength of correlation• Know the significance of positive, negative and 0 as PMCC results• Plot lines of best fit on scattergraphs• Plot a regression line from its equation• Understand the potential problems of extrapolation57.1, \$7.2, \$7.3\$8.1, \$8.2, \$8.3\$9.1, \$9.2, \$9.3, \$9.4, \$9.5\$10.1Positive, negative, recognise, identify, calculate, plot, scattergraph, correlation, accuracyCausation, outlier, significance, pmcc, regression, regression line, extrapolationGCSE scattergraph and correlation questionsHegarty – scattergraph and correlationPlotting lines of regression	Contexts/ problemsShort tasks: Reaction times https://meiassets.blob.core.windows.net/am Sp- uploads/uploads/files/6 Reaction time inves tigationAQA_version.pdf https://teacher.desmos.com/activitybuilder/c ustom/5f7dd5fd144f450c73185953 Spurious correlations https://www.tylervigen.com/spurious- correlations Premier League festive fixtures: Which clubs have toughest schedule? http://quibans.blogspot.com/search?q=correl ation Names most commonly linked with crime http://quibans.blogspot.com/2021/05/quiban s-101-criminals-names.html

Career links	Data analyst https://www.unifrog.org/student/careers/keywords/data-analyst-statistician	Longer tasks: World data
Employability skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive Fourthead of the second seco	
Cross-curricular	Geography (world data, correlation)	
links	PE (reaction times)	
Assessment	Past exam questions Practice sample material – Paper 2 Verbal discussions/questioning	
21 Jassons +		
Ohiectives		
Objectives		
and Common		2019 pre-release materials https://padlet.com/catherine_vansaarloos/hx
misconceptions	Using assessment data to target revision for this final 7 weeks until the exam	gouyennint
Specification	Keep refering to 2023 pre-release material throughout the term	Past papers
links	Use of past eventing the papers and provide so the solution of the tention dependent prior	https://www.aqa.org.uk/subjects/mathemati
Tier 2 Vocab	Use of past examination papers and pre-release materials to tailor revision of key topics dependent prior	cs/aga-certificate/mathematical-studies-
Tier 3 Vocab		1350/assessment-
Homework		resources?f.Resource+type%7C6=Question+p
Career links		apers
Employability		
skills		
	Mini-exam snippets	
Assessment	Past exam questions	