

Core Maths Scheme of Work

Week no	Week Beginning	Calendar notes	HW to Set	Option A - Statistical Techniques	Option B - Critical Path and Risk Analysis	Option C - Graphical Techniques
1	13 Sep		1	1. Estimation and Modelling Cycle 2. Percentages (increase/decrease/reverse)		
2	20 Sep		2	1. Data: Types of Data 2. Data: Collecting and Sampling Data		
3	27 Sep		3	1. Data: Representing Numerically (averages and spread) 2. Data: Representing Numerically (including stem and leaf)		
4	04 Oct		4	1. Finance: Spreadsheets (interest rates) 2. Finance AER		
5	11 Oct		5	1. Finance: APR 2. Finance: APR		
6	18 Oct		6	1. Critical analysis of data 2. Introduce 2016 preliminary material for mock		
Half Term			Half Term			
7	01 Nov			Benchmark 1 (using 2016 preliminary material)		
8	08 Nov	BMI Uploaded 9am 9/11	7 (A, B or C)	1. Correlation and causation 2. PMCC	1. Precedence tables, activity networks 2. Early times and late times	1. Different types of graphs 2. Graph sketching
9	15 Nov		8 (A, B or C)	1. Plotting line of best fit by eye 2. Regression line equation	1. Critical/Float Activities 2. Gantt Charts	1. Plotting graphs in context 2. Using intersections to find solutions
10	22 Nov		9 (A, B or C)	1. Interpolation and extrapolation 2. Estimation/QUIBANS/recap	1. CPA problems 2. Estimation/QUIBANS/recap	1. Graphical representation problems 2. Estimation/QUIBANS/recap
11	29 Nov		10	1. Finance: Taxation (VAT and Income tax) 2. Finance (Income Tax and NI)		
12	06 Dec		11	1. Finance: Exchange Rates (can include commission) 2. Finance: Inflation, CPI and RPI		
13	13 Dec		12 (xmas HW)	1. Critical analysis of data (use 2017 preliminary material) 2. Critical analysis of data (hand out 2018 preliminary material)		
Christmas			Christmas			
14	03 Jan			1. Benchmark 2 Paper 1 (Including 2018 preliminary material) 2. Benchmark 2 Paper 2 (Including 2018 preliminary material)		
15	10 Jan	B2 and SR1 upload Thu 16/1	13 (A, B or C)	1. Properties of a normal distribution 2. Properties of a normal distribution	1. Probability and Venn diagrams 2.. Tree Diagrams	1. Gradient of a straight line 2. Gradient at a point on a curve
16	17 Jan		14 (A, B or C)	1. Use of calc to find values 2. Use of calc to find probabilities	1. Combined (in)dependent events 2. Expected Value/Cost	1. Average Speed 2. Speed time graphs (gradient only)
17	24 Jan		15 (A, B or C)	1. Normal Distribution problems 2. Estimation/QUIBANS/recap	1. Expected Value/Cost 2. Estimation/Quibans/recap	1. Rate of change problems 2. Estimation/QUIBANS/Recap
18	31 Jan		16	1. Data: Box Plots 2. Data: Cumulative frequency diagrams (including using them to draw box plots)		
19	07 Feb		17	1. Data: Histograms 2. Recap (hand out 2019 preliminary material)		
Half Term			Half Term			
20	21 Feb			Benchmark 3 (using 2019 preliminary material)		
21	28 Feb	Preliminary material available	18 (A, B or C)	1. Random sample from population 2. Mean of a sample (point estimate)	1. Cost benefit analysis 2. Control measures	1. e^x (including gradient = e^x) 2. Solving $a^x=b$ and $e^kx=b$ with calc.
22	07 Mar		19 (A, B or C)	1. Confidence intervals 2. Confidence intervals	1. Expected values/Risk 2. Estimation/QUIBANS/recap	1. Exponential functions modelling. 2. Using exponential equations
23	14 Mar		Specimen Papers	1. Preliminary Material (critical analysis and estimation) 2. Recap finance		
24	21 Mar	B3 upload 21 Mar, PE 2	2015 (practice) papers	1. Recap optional content 2. Recap data		
25	28 Mar		2016 papers	1. Recap optional content 2. Recap finance		
Easter			Easter			
26	18 Apr		2017 papers	1. Benchmark 3 (Mock) - Paper 1 2. Benchmark 3 (Mock) - Paper 2		
27	25 Apr		2018 papers	1. Paper 1 feedback (focus on preliminary material -estimation) 2. Paper 2 feedback (focus on preliminary material -critical analysis)		
28	02 May		Oxford Paper X	1. Recap finance 2. Recap data		
29	09 May	Paper 1: 13/05 am	Oxford Paper Y	1. Paper 1 revision 2. Paper 2 revision		
30	16 May	Paper 2: 20/05 am	Oxford Paper Z	1. Paper 2 revision		