Core Maths Scheme of Work Overview – 2021-22

Week beginning	Core Maths
	Unit 1: Analysis of Data
06-Sep	1. Data and sampling
	2. Measures of spread
	3. Cumulative frequency
13-Sep	4. Cumulative frequency and box plots
	5. Constructing histograms
	6. Interpreting histograms
20-Sep	7. Review of analysis of data (x2)
	End of unit assessment on Analysis of Data (in class)
	Unit 2: Personal finance
	1. Number recap
27-Sep	2. Percentages: Reverse and % change
	3. Percenatges: compound interest
04-Oct	4. AER
	5. Budgeting
11-Oct	6. Exchange rates and inflation
	7. Understanding paylips
18-Oct	8. Income and national insurance tax
	9. Debts, loans and repayments (APR)
01-Nov	10. Debts, loans and repayments (APR)
	HALF TERM
01-Nov	11. Mortgages
	12. VAT and other percentages
08-Nov	13. Review lessons (x2)
15-Nov	End of unit assessment on Personal Finance (in class)
	Unit 3: Estimation
22-Nov	1. Rounding and estimating recap
	2. Calculating in standard form
	3. Volume recap (cylinders, cones, pyramids, spheres)
	4. Surface area (cylinders, cones, pyramids, spheres)
29-Nov	5. Estimation techniques - scaling
	6. Estimation techniques - subdividing
	7. Estimation techniques - stating assumptions
06-Dec	8. Solving problems with estimation 1
	9. Solving problems with estimation 2
	10. Solving problems with estimation 3
	11. Exam questions practice on estimation (x2)
13-Dec	**Paper 1 mock exam**
	WINTER HOLIDAY
	Unit 4: Critical anlysis
03-Jan	1. Clarity, selectivity of data, sampling and trialling
	2. Critical analyisis of models
10-Jan	3. Exam practice on critical analysis
	Unit 5: Normal distribution
	1. Standard deviation

	2. Introduction to normal distribution
17-Jan	3. Normal distribution
	4. Standard normal distibution 1
	5. Standard normal distibution 2
24-Jan	6. Review of critical analysis and normal distribution
	End of unit assessment on Critical analysis & normal distribution (in class)
	Unit 6: Probabilty and estimation
31-Jan	1. Quality control
	2. The sample mean
07-Feb	3. Confidence intervals 1
	4. Confidence intervals 2
21-Feb	5. Review and exam practice questions
	HALF TERM
	Unit 7: Correlation and regression
22-Feb	1. Line of best fit
	2. Regression line 1
	3. Regression line 2
01-Mar	4. Pearson's product moment correlation coefficient 1
	5. Pearson's product moment correlation coefficient 2
	6. Correlation and regression review
08-Mar	End of unit assessment on confidence intervals and regression lines (in class)
16-Mar	**Paper 2 mock exam**
22-Mar	**Revision and working with pre-released material**
	Revision
29-Mar	Revision
	Revision
	Revision
	SPRING HOLIDAY
18-Apr	Revision
	Revision
	Revision
25-Apr	**Paper 1 and Paper 2 mock exams (set 2)**
	Revision
	Revision
02-May	Revision
	Revision
	Revision
09-May	Revision
	Revision
	Revision
16-May	**Exam period/Revision***
23-May	**Exam period/Revision***
	HALF TERM
06-Jun	**Exam period/Revision***

*End of course after paper 1 and paper 2 are taken (Core Maths is a one-year course)