

Mathematics Department Curriculum Map Examined in 2021

Year	Term One	Term Two	Term Three	Term Four	Term Five	Term Six		
7	Using and working with number. Algebra.	Algebra. Sequences. Decimals.	Co-ordinates and graphs. Perimeter, area and volume.	Perimeter, area and volume. Fractions.	Percentages. Angles.	WHOLE SCHOOL EXAMINATIONS Ratio. Probability. Pythagoras. Proportion. Constructions. Congruence. Length, area and volume. Linear graphs. Quadratic equations.		
8	Equations. Number.	Number. Transformations. Shape and ratio.	Shape and ratio. Circles. Surface area and volume.	Percentages. Graphs.	Statistics.			
9	Basic Number. Fractions, ratio, proportion.	Statistics. Sequences. Compound measures.	Compound and reverse percentages. Angles.	Transformations, constructions and loci.	Algebraic manipulation.			
10	Linear graphs. Pythagoras and trigonometry.	Similarity. Probability.	Powers. Standard form.	Equations and inequalities. Work Experience	Surds. Bounds. Indices.			
11	Quadratic equations. Statistical diagrams.	Conditional probability and tree diagrams.	MOCKS Circle theorems. Direct and inverse proportion.	Non-right angled trigonometry. Graphs. Functions.	Vectors.	EXTERNAL EXAMINATIONS		
12 Core	1	Basic skills revision. Maths for Personal Finance including percentages, interest rates and taxation. Estimation. Critical Analysis.						
	2	Analysis of data. Statistical techniques including the Normal Distribution. Probabilities and estimation. Correlation and regression.						
12 Single	1	PURE 1: Algebra and functions. Co-ordinate geometry. Further algebra	PURE 1: Trigonometry. Vectors in 2 dimensions.	PURE 1: Differentiation. Integration. Exponentials and logarithms.	APPLIED 1 (Statistics): Sampling. Data presentation and interpretation. Probability. Distributions. Hypothesis testing.		SCHOOL EXAMS PURE 2: Proof. Algebraic and partial fractions. Functions and modelling.	
	2				APPLIED 1 (Mechanics): Quantities and units. Kinematics/SUVAT (constant acceleration). Forces and Newton's laws. Kinematics (variable acceleration)			
13 Single	1	PURE 2: Series and sequences. The binomial theorem. Trigonometry	PURE 2: Parametric equations. Differentiation. Numerical Methods. Integration.	MOCKS PURE 2: Integration. Vectors.	APPLIED 2 (Statistics): Regression and correlation. Conditional probability. The Normal distribution.		EXTERNAL EXAMINATIONS	
	2				APPLIED 2 (Mechanics): Moments. Forces at any angle. Applications of kinematics and forces. Further kinematics.			
12 Further	1	Core Pure 1		Core Pure 2	Further Mech 1	PURE 2: Integration. Vectors	SCHOOL EXAMS Core Pure 1 Further Mech 1	
	2			Further Stats 1	Further Stats 1			
13 Further	1	Core Pure 2	Core Pure 2	MOCKS	Core Pure 2, Further Statistics 1, Further Mechanics 1			EXTERNAL EXAMINATIONS
	2	Further Stats 1	Further Mech 1					

*For content of Pure 1, Pure 2, Applied 1 and Applied 2 in Further Maths, see Single Maths.

Within each Key Stage, every module completed is summarised and moderated by an assessment in the form of a Common Assessed Task. There exists a set of grade boundaries within each Key Stage which directly correlates to the associated examination series.