YEAR 11 MATHEMATICS CURRICULUM MAP 2022-23

AUTUMN TERM		SPRING TERM		SUMMER TERM	
TERM 1	TERM 2	TERM 1	TERM 2	TERM 1	TERM 2
Unit 13 – Circles • Area of a circle • Circumference of a circle • Area of a sector • Arc Length **Unit 14 – Sequences** • Advanced Substitution • Linear Sequences • Special Sequences • Quadratic Sequences • Iteration **Unit 15 – Transformations and Similarity** • Rotation • Reflection • Translation • Enlargement • Similarity **Unit 16 – Measures** • Speed, Distance, Time • Density & Pressure • Error Intervals • Bound Calculations	**Unit 17 – Pythagoras and Trigonometry** • Trigonometry and Pythagoras in 2D • Trigonometry and Pythagoras in 3D • Trigonometry in non-RA Triangles • Exact Trigonometric Values **Unit 18 – Statistics 2** • Mean, median, mode, range • Averages from a frequency table • Cumulative Frequency • Boxplots	**Unit 19 – Other Graphs** • Types of graph • Gradients and Areas under graphs • Tangents and Chords • Trig Graphs • Graphs of exponential functions • Transforming Graphs **Unit 20 – Proportion 2** • Formal Direct Proportion • Formal Inverse Proportion • Connected Proportion Problems **Unit 21 – Surface Area and Volume** • Volume and Surface area of spheres • Volume and Surface area of cones & frustums • Density **Unit 22 – Statistics 3** • Histograms	**Unit 23 – Circle Theorems** • Circle Theorems • Equation of a circle • Equation of a tangent **Unit 24 – Proof** • Algebraic Proof • Identities **Unit 25 – Constructions and Loci** • Constructions • Loci • Bearings **Unit 26 – Vectors** • Column Vectors • Vector Diagrams • Vector Proof	**Revision**	**GCSE Exams**
ASSESSMENT		ASSESSMENT		ASSESSMENT	
Year 11 Mock Exams 1 x non-calculator exam 1 x calculator exam		March In-Class Mock Exams 1 x non-calculator exam 1 x calculator exam		GCSE Maths Exams	

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