

Key Stage 4 – YEAR 11 MATHS HIGHER – 2022-2023
Curriculum Map for Students

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
Topic Overview	Unit 12 – Similarity and Congruence Unit 13 – More trigonometry Unit 14 – Further Statistics	Unit 15 – Equations and Graphs Unit 16 – Circle Theorems Mock Preparation	Unit 17 – More Algebra Unit 18 – Vectors and Geometric Proof	Unit 19 – Proportion and graphs Revision	Revision and Exam Preparation
Focus	Unit 12 – Congruence and geometric proof. Similarity including lengths, areas and volumes. Unit 13 – Graphs of trigonometric functions and their transformations. Sine Rule. Cosine Rule. Area of a triangle. 3D trigonometry. Unit 14 – Sampling. Cumulative frequency and box plots. Histograms.	Unit 15 – Solving simultaneous equations graphically. Graphical inequalities. Solving quadratic and cubic equations graphically. Unit 16 – Radii, chords and tangents. Angles in circles. Applying circle theorems.	Unit 17 – Rearranging formulae. Algebraic fractions. Surds. Unit 18 – Vector notation and arithmetic. Parallel vectors and colinear points. Solving geometric problems.	Unit 19 – Direct Proportion. Inverse Proportion. Exponential functions. Non- linear graphs. Transformations of functions. Topics focused on will be led by the gaps in students’ knowledge.	Topics focused on will be led by the gaps in students’ knowledge.
Assessment	<i>Unit test at the end of each topic.</i>	<i>Unit test at the end of each topic.</i> <i>Mock Exam</i>	<i>Unit test at the end of each topic.</i>	<i>Unit test at the end of each topic.</i>	<i>GCSE Examination</i>