Key Stage 4 – YEAR 10 MATHS HIGHER
Curriculum Map for Students

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Overview	**Unit 1 – Number Unit 2 - Algebra**	**Unit 3 – Interpreting and representing data Unit 4 – Fractions, ratio and Percentages**	**Unit 5 – Angles and Trigonometry Unit 6 - Graphs**	**Unit 7 – Area and Volume Unit 8 – Transformations and constructions**	**Unit 9- Equations and Inequalities Unit 10 -Probability**	**Unit 11 – Multiplicative Reasoning**
Focus	Unit 1 – Rounding and estimating. HCF and LCM. Calculating with indices. Fractional and negative indices. Standard form. Surds. Unit 2 – Algebraic indices. Expanding and Factorising. Equations and formulae. Sequences, including linear and non- linear.	Unit 3 – Statistical diagrams. Scatter graphs and lines of best fit. Averages and range. Unit 4 – Operations with fractions. Using ratio. Percentages including increase/ decrease and reverse percentages. Converting between fractions, decimals and percentages.	Unit 5 – Angles in parallel lines. Interior and exterior angles of polygons. Pythagoras' theorem. Trigonometry in right angled triangles. Unit 6 – Plotting linear graphs. Gradient and equation of a line. Graphing rates of change. Real life graphs. Quadratic, cubic and reciprocal graphs.	Unit 7 – Perimeter and Area. Units and accuracy. Volume and surface area of prisms. Circles and sectors. Pyramids, cones and spheres. Unit 8 – Reflection, rotation, translation and enlargement. Bearings and scale drawings. Constructions and Loci.	Unit 9 – Solving quadratic equations. Completing the square. Solving simultaneous equations. Solving linear inequalities. Unit 10 – Combined events. Mutually exclusive events. Experimental probability. Tree diagrams. Venn diagrams and set notation.	Unit 11- Growth and decay. Compound measures. Direct and inverse proportion.
Assessment	*Unit test at the end of each topic.*	*Unit test at the end of each topic.*	*Unit test at the end of each topic.*	*Unit test at the end of each topic.*	*Unit test at the end of each topic.*	*Unit test at the end of each topic.* *End of year 10 exam*