

Key Stage 3 – YEAR 9 MATHS  
Curriculum Map for Students

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Topic Overview</b>	<b>Indices &amp; Standard Form and Expressions and Formulae</b>	<b>Dealing with Data and Multiplicative Reasoning</b>	<b>Constructions and Sequences, Inequalities, Equations &amp; Proportion</b>	<b>Circles, Pythagoras and Prisms</b>	<b>Probability and Graphs</b>	<b>Comparing Shapes</b>
<b>Focus</b>	Indices. Calculations and estimates. Standard form. Solving equations. Substituting into expressions. Writing and using formulae. Index laws and brackets. Expanding double brackets.	Planning a survey. Collecting data. Calculating averages. Displaying and analysing data. Presenting and comparing data. Enlargement. Negative and fractional scale factors. Percentage change. Compound measure. Direct and inverse proportion.	Using scales. Basic constructions. Constructing triangles. Using accurate scale diagrams. $n$ th term of arithmetic sequences. Non-linear sequences. Inequalities. Solving equations. Proportion.	Circumference of a circle. Area of a circle. Pythagoras Theorem. Prisms and cylinders. Errors and bounds.	Using $y = mx + c$ . More straight-line graphs. Simultaneous equations. Graphs of quadratic functions. More non-linear graphs. Mutually exclusive events. Experimental and theoretical probability. Sample space diagrams. Two-way tables. Venn diagrams.	Congruent and similar shapes. Ratios in triangles. The tangent ratio. The sine ratio. The cosine ratio. Using trigonometry to find angles.
<b>Assessment</b>	<i>Unit test (either Support/Core or Core/Depth dependent on ability) at the end of each topic.</i>	<i>Unit test (either Support/Core or Core/Depth dependent on ability) at the end of each topic. End of term test (either Support/Core or Core/Depth dependent on ability) just before Christmas break.</i>	<i>Unit test (either Support/Core or Core/Depth dependent on ability) at the end of each topic.</i>	<i>Unit test (either Support/Core or Core/Depth dependent on ability) at the end of each topic. End of term test (either Support/Core or Core/Depth dependent on ability) just before Easter break.</i>	<i>Unit test (either Support/Core or Core/Depth dependent on ability) at the end of each topic.</i>	<i>Unit test (either Support/Core or Core/Depth dependent on ability) at the end of each topic. End of year test (either Support/Core or Core/Depth dependent on ability) just before end of year.</i>