

Curriculum Maps – Year 9  
**Maths Higher**

<b>Overview of the year:</b> Number Algebra Ratio and Proportion Geometry and Measures Statistics and Probability			<b>Ways to consolidate and extend your learning in Maths:</b> Can use Maths genie questions & worked solutions. Use of Corbett- Maths Use of Mathletics Weekly Maths watch HW with assigned MathsWatch clip numbers Use Lesson PPTs and revision specific materials uploaded on Microsoft Teams.	
Half Term	Unit title	Knowledge	Skills	Assessment
1	Number- 1 Algebra -1	Powers and roots- fractional indices, standard form, surds Quadratics- Expanding, factorising and solving	Basic number skills, Can solve problems by applying their mathematics to a variety of routine and non-routine problems.  Can break down problems into a series of simpler steps and persevere in seeking solutions.	Mid-phase assessment Investigation Project
2	Algebra-2 Statistics -1	Inequalities Complex equations Algebraic fractions Representing data – Box plots, Cumulative frequency curves, Histograms	Ability to manipulate precise and intricate ideas. Graphical/statistical skills – analysing data from graphs Ability to reach conclusions.	End of term topic test- Written assessment.
3	Ratio and Proportion 1 Geometry and Measures -1	Direct and Indirect proportion Area and arc length of a sector	Reason mathematically, critical thinking problem solving, analytical thinking quantitative reasoning	Mid-phase assessment Investigation Project
4	Number -2 Algebra -3	Bounds and error intervals Compound measure- Speed, density and Pressure Non- linear graphs	critical thinking, problem solving, quantitative reasoning,	End of term topic test- Written assessment.
5	Algebra -4 Geometry and measures 2	Simultaneous Equations Pythagoras theorem and Trigonometry	critical thinking, problem solving quantitative reasoning	Mid-phase assessment Investigation Project
6	Geometry and measures- 3  Algebra-5	Trigonometry  Algebraic proofs	critical thinking, problem solving quantitative reasoning, ability to manipulate precise and intricate ideas, construct logical arguments and expose illogical arguments	End of year test- Written assessment