

Subject area: Year 11 Mathematics – Higher (Stage 11)

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	Higher: Investigating Properties of Shapes Calculating Solving Equations and Inequalities 1	Higher: Mathematical Movement I Algebraic Proficiency: tinkering Proportional Reasoning Pattern Sniffing Solving Equations and Inequalities 2	Higher: Algebraic Proficiency: visualising I Analysing Statistics Algebraic Proficiency: visualising II Mathematical Movement II	Higher: Revision of key concepts as identified from assessments	Higher: Revision of key concepts as identified from assessments	
Assessment	4 BAM Tests	1 BAM Test GCSE Exam Mock 1 – November (1 Paper)	2 BAM Tests GCSE Exam Mock 2 – January (3 Papers)	GCSE Exam Mock 3 – March (2 or 3 Papers)	GCSE Exam (3 Papers)	
Homework	90 minute homework including half size practice paper per week	90 minute homework including half size practice paper per week	90 minute homework including full size practice paper per week	90 minute homework including full size practice paper per week		

Building on prior learning	<p>Key points for the year will include:</p> <ul style="list-style-type: none"> • Simplify surds, including rationalising the denominator of a surd expression • Manipulate quadratic expressions by completing the square • Deduce roots and turning points of quadratic functions • Understand the concept of an instantaneous rate of change • Sketch translations and reflections of given functions • Solve quadratic inequalities in one variable • Use the sine and cosine rules to solve problems
Enrichment within the Curriculum	Lunchtime Maths Masterclass to support students aiming for grade 8/9 and prepare for A-Level Maths.
Extracurricular opportunities	Lunchtime support offered where students require extra help. After school intervention and revision sessions.
Positive impacting on personal development (SMSC)	In Maths lessons students are always encouraged to delve deeper into their understanding of Mathematics and how it relates to the world around them. Problem solving skills and teamwork are fundamental to Mathematics, through creative thinking, discussion, explaining and presenting ideas. Students are always encouraged to develop their Mathematical reasoning skills, communicating with others and explaining concepts to each other. Self and peer reviewing are very important to enable students to have an accurate grasp of where they are and how they need to improve.
Preparing for the next stage of education	Development of topics in the areas of Number, Ratio and Proportion, Algebra, Geometry and Statistics.

Ways to support your child's learning	<p>Check student planner / SPACE for Maths homework and support them with this. Access to commercial websites, have many resources and videos for you to help support your child's learning and revision for assessments. Numeracy can be developed adding totals during a supermarket shop, working with percentages in shop sales etc.</p> <p>Useful Websites: Corbettmaths- www.corbettmaths.com Mymaths- https://www.mymaths.co.uk/ BBC Bitesize- https://www.bbc.co.uk/bitesize/examspecs/z9p3mnb Mathsgenie- https://www.mathsgenie.co.uk/gcse.html Mathsbot- https://mathsbot.com/ Maths Made Easy- https://mathsmadeeasy.co.uk/ On Maths- https://www.onmaths.com/ Exam Solutions- https://www.examsolutions.net/gcse-maths/ Study Maths- https://studymaths.co.uk/</p>
--	---