

Subject area: Year 8 Mathematics (Stage 8)

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	Numbers and the Number System Calculating Visualising and Constructing	Understanding Risk I Algebraic Proficiency: tinkering Exploring Fractions, Decimals and Percentages	Proportional Reasoning Pattern Sniffing Investigating Angles	Calculating Fractions, Decimals and Percentages Solving Equations Calculating Space	Algebraic Proficiency: visualising Understanding Risk II	Presentation of Data Measuring Data Revision of key concepts as identified from assessments
Assessment	2 BAM Tests	5 BAM Tests	2 BAM Tests	3 BAM Tests	1 BAM Test	Full assessment (2 exam papers) to cover all topics.
H/W	60 minute homework per week	60 minute homework per week	60 minute homework per week	60 minute homework per week	60 minute homework per week	60 minute homework per week

Building on prior learning	<ul style="list-style-type: none"> • Apply the four operations with negative numbers • Convert numbers into standard form and vice versa • Apply the multiplication, division and power laws of indices • Convert between terminating decimals and fractions • Find a relevant multiplier when solving problems involving proportion • Solve problems involving percentage change, including original value problems • Factorise an expression by taking out common factors • Change the subject of a formula when two steps are required • Find and use the nth term for a linear sequence • Solve linear equations with unknowns on both sides • Plot and interpret graphs of linear functions • Apply the formulae for circumference and area of a circle • Calculate theoretical probabilities for single events
Enrichment within the Curriculum	National Mathematics Challenge for students who show very good problem solving skills.
Extracurricular opportunities	Lunchtime support offered where students require extra help.
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.

<p>Ways to support your child's learning</p>	<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>
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