



100% Homework

Subject: Mathematics

Parents / carers can support their child in improving their learning by accessing the 100% Homework resources and encouraging self-quizzing at home. Regular testing of key concepts, content and vocabulary is proven to improve memory and the ability to recall important knowledge.

Key learning for term 2 (January-April):

	What they need to know	What they should be doing at home	What resources are available	How can I help?
Yr 7	<p>Students will revisit learning from half term 2. Topics include:</p> <p>Properties of Triangles – Clip 122 Properties of Quadrilaterals – Clip G14 Angles in parallel lines – Clip 120 Scatter Graphs – Clip 129 Coordinates – Clip 8 Plans and elevations – Clip 51 Algebraic notation – Clip 7</p>	<p>Students will be set a minimum of one Mathswatch video clip to study each week. They should:</p> <p>1) Watch the clip and make notes in their homework book</p>	<p>Mathswatch website which contains:</p> <ul style="list-style-type: none"> *Tutorial videos *Worksheets *Interactive questions *Revision schedules 	<p>Check your child's planner each week to see which Mathswatch clip they have been set.</p> <p>Ensure your child logs on to the Mathswatch website each week and studies the clip set by their teacher for homework, making notes and completing the worksheet questions. Encourage your child to 'get ahead' and watch more videos independently in addition</p>
Yr 8	<p>Students will revisit learning from half term 2. Topics include:</p> <p>Pythagoras – Clips 150a, 150b Trigonometry – Clip 168 Parallel lines – Clip 120</p>	<p>Complete the questions on the 'worksheet' (link at the top of the clip) in their homework book</p>	<ul style="list-style-type: none"> *Online homework tests. These are set at the end of each half term by the class teacher to check that learning from the 	

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	Rotations – Clip 49 Reflections – Clip 48 Enlargements – Clip 148 Translations – Clip 50 Similarity – Clip 144		homework has been mastered and retained	to those set, making notes and completing the worksheet questions each time.
Yr 9	Students will revisit learning from half term 2. Topics include: Fractions, Decimals, Percentages – Clip 85 Percentages – Clips 40, 85, 86, 87, 88, 89 Percentage Change - Clips 108, 109, 110 Simple Interest – Clip 111 Averages and Range – Clip 62 Averages from Tables – Clip 130 Frequency Tables – Clip 65a Bar Charts – Clip 15 Pie Charts – Clip 16 Pictograms – Clip 16 Histograms – Clip 205			
Yr 10	<i>Students will revisit learning from half term 2. Topics include:</i> <i>Direct and Inverse Proportion – Clips 42, 199</i> <i>Constructions and Loci - Clips 145, 146, 47, 147, 165</i> <i>Congruence – Clips 12, 166</i> <i>Similar Shapes - Clip 144</i> <i>Inequalities - Clips 138, 139</i>			



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Yr 11

Students will study the topics listed on the front of their **purple homework book**. This is a bespoke list for each student based on the grade they are working towards.

Reading:

Reading is a key driver in the improvement of learning and the ability to recall knowledge. All pupils have the following suggested reading list in their student planners. Please encourage your child to read in order to deepen their knowledge of the subjects they study. All books are available in our school library.

Books suitable for KS3	The Number Devil: A Mathematical Adventure (Hans Magnus Enzensberger) The Curious Incident of the Dog in the Night-time (Mark Haddon) Getting Away with Muderous Math (Kjartan Poskitt) The Boy Who Loved Math: The Improbable Life of Paul Erdos, (Deborah Heiligman) 1089 and All That: A Journey into Mathematics (David Acheson)
Books suitable for KS3 & KS4	The Code Book (Simon Singh) The Simpsons and their Mathematical Secrets (Simon Singh)
Books suitable for KS4	A Beautiful Mind (Sylvia Nasar) Infinity: Beyond the Beyond the Beyond (Lillian R. Lieber) The Einstein Theory of Relativity: A Trip to the Fourth Dimension (Lillian R. Lieber) The Joy of x: A Guided Tour of Math, from One to Infinity (Steven Strogatz) Fermat's Last Theorem, (Simon Singh)

“Books expose children to more facts and to a broader vocabulary than virtually any other activity, and persuasive data indicate that people who read for pleasure enjoy cognitive benefits throughout their lifetime” — Daniel T. Willingham



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