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 half term 2:

	What they need to know	What they should be doing at home	What resources are available	How can I help?
Yr 7	Students will revisit learning from half term 1. Topics include: Place Value – Clip 1 Powers and Roots – Clips, 81 and 29 Numerical methods – Clips 17, 18, 19 and 20 Four operations with Fractions – Clips 71, 73, and 74 *all clips can be found on Mathswatch*	Students will be set a minimum of one Mathswatch video clip to study each week. They should: 1) Watch the clip and make notes in their homework book Complete the questions on the 'worksheet' (link at the top of the clip) in their homework book	Mathswatch website which contains: *Tutorial videos *Worksheets *Interactive questions *Revision schedules *Online homework tests. These are set at the end of each half term by the class teacher to check that learning from the	Check your child's planner each week to see which Mathswatch clip they have been set. 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
Yr 8	Students will revisit learning from half term 1. Topics include: Solving Equations – Clips 135 Equation of a straight line – Clip 159 Powers and Roots – Clips 29 and 81 Fractions, Decimals and Percentages – Clip 85			

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			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 1. Topics include: Numerical Methods – Clips 17, 18, 19 20 Place Value – Clip 1 Ordering Numbers – Clips 2, 3 Directed Numbers - Clips 23, 68a, 68b Factors, Multiples and Primes – Clip 28 HCF and LCM - Clips 79, 80 Prime Factor Decomposition – Clip 78 Venn Diagrams - Clips 127, 185 Rounding – Clips 31, 32, 90 Estimation – Clip 91 Four Operations Fractions - Clips 71, 72, 73, 74 Algebraic Notation – Clips 7			
Yr 10	Students will revisit learning from half term 1. Topics include: Percentages – Clips 40, 85, 86, 87, 88, 89 Percentage Change – Clips 108, 109, 110 Simple Interest – Clip 111 Compound Interest - Clip 164 Simultaneous Equations – Clips, 140, 162, 211 Area and Perimeter - Clips 53, 54, 55, 56 Circles - Clips 117, 167, 149 Surface Area - Clip 114 Volume - Clips 115, 119, 169 Metric Conversions – Clip 112			

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	Error Intervals and Bounds – Clips 155, 132, 206			
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)

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"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