



Mathematics Homework - Year 9
Autumn 1 - Algebra, Bearings & Transformations

Retrieval	Reading	Rewarding
<p>1. Sparx tasks</p> <p>All students must complete the 4-week block of compulsory tasks.</p> <p>Set on Wednesday and due Wednesday the following week. Start date will be told by teachers in October.</p> <p>Sparx student login</p> <p>COMPULSORY TASK</p>	<p>2. Third Space Learning - Bearings</p> <p>A website to read through and help improve your maths understanding of Bearings.</p> <p>Bearings</p>	<p>3. Teachwire Maths Puzzles</p> <p>For learners who want to test themselves outside of the regular maths curriculum. Challenge yourself with 42 problem-solving questions.</p> <p>Teachwire Puzzles</p>
<p>4. Corbett Maths videos</p> <p>Corbett Maths video to help aid retrieval of KS3 maths concepts. Pythagoras' Theorem is linked to other mathematical topics in Year 9.</p> <p>KS3 video - Pythagoras' Theorem</p>	<p>5. Alex's Adventures in Numberland by Alex Bellos</p> <p>"Packed with fascinating, eye-opening anecdotes, Alex's Adventures in Numberland is an exhilarating cocktail of history, reportage and mathematical proofs that will leave you awestruck."</p> <p>Alex's Adventures in Numberland</p>	<p>6. Sparx XP boost, Target and Independent learning</p> <p>Boost your XP with more tasks that are similar (XP boost), try harder tasks to improve your understanding with "Target", or try something different using the "Independent learning section".</p>



Mathematics Homework - Year 9
Autumn 2 - Decimals, Area & Perimeter

Retrieval	Reading	Rewarding
<p>1. Sparx tasks</p> <p>All students must complete the 4-week block of compulsory tasks.</p> <p>Set on Wednesday and due Wednesday the following week. Start date will be told by teachers in September.</p> <p>Sparx student login</p> <p>COMPULSORY TASK</p>	<p>2. Maths is Fun – Multiplying Decimals</p> <p>A website to read through and help improve your maths understanding of Multiplying Decimals. This article talks through the logic behind a simplified method.</p> <p>Multiplying Decimals</p>	<p>3. NRich Resources</p> <p>Want to become a more curious, resourceful, resilient and collaborative mathematician? Here are some of NRich's favourite problems to help you along the way.</p> <p>NRich resources</p>
<p>4. Corbett Maths videos</p> <p>Corbett Maths video to help aid retrieval of KS3 maths concepts. Expanding two brackets is a key algebraic concept that is important to remember for the rest of year 9 and beyond.</p> <p>KS3 video - Expanding Two Brackets</p>	<p>5. The Music of the Primes by Marcus Du Sautoy</p> <p>One of Britain's leading mathematicians, Marcus Du Sautoy, recounts the history of these elusive numbers. It is a story of eccentric and brilliant men, last minute escapes from death, strange journeys, dangerous ideas and the unquenchable thirst for knowledge that drove some men mad and others to unparalleled glory."</p>	<p>6. Sparx XP boost, Target and Independent learning</p> <p>Boost your XP with more tasks that are similar (XP boost), try harder tasks to improve your understanding with "Target", or try something different using the "Independent learning section".</p>



Mathematics Homework - Year 9
Spring 1 - Area & Circumference of the Circle - Percentage & Ratio

Retrieval	Reading	Rewarding
<p>1. Sparx tasks</p> <p>All students must complete the 4-weeks block of compulsory tasks. These tasks will be set based on content covered in lessons.</p> <p>Set on Wednesday and due Wednesday the following week.</p> <p>Sparx student login</p> <p>COMPULSORY TASK</p>	<p>2. MME – Ratio</p> <p>A website to read through and help improve your maths understanding.</p> <p>Ratio</p>	<p>3. Maths challenge.</p> <p>For exploring, questioning, working systematically, visualising, conjecturing, explaining, generalising, justifying, proving... are all at the heart of mathematical thinking.</p> <p>Have you got it? Have You Got It? (maths.org)</p>
<p>4. Mathantics videos</p> <p>Youtube channel to help aid retrieval of KS3 maths concepts. Area and circumference of the circle is one of the topics this half term.</p> <p>KS3 Area and circumference of circle</p>	<p>5. The Maths Book by Clifford A Pickover</p> <p>“Mathematic's infinite mysteries and beauty unfold in this book. Among the numerous concept's readers will encounter as they dip into this inviting anthology: cicada-generated prime numbers, magic squares, the discovery of pi and calculus, and the butterfly effect.</p>	<p>6. Sparx XP boost, Target and Independent learning</p> <p>Boost your XP with more tasks that are similar (XP boost), try harder tasks to improve your understanding with “Target”, or try something different using the “Independent learning section”.</p>



Mathematics Homework - Year 9
Spring 2 - Pythagoras, Probabilities & Equations

Retrieval	Reading	Rewarding
<p>1. Sparx tasks</p> <p>All students must complete the 4 week block of compulsory tasks. These tasks will be set based on content covered in lessons.</p> <p>Set on Wednesday and due Wednesday the following week.</p> <p>Sparx student login</p> <p>COMPULSORY TASK</p>	<p>2. Bitesize</p> <p>A website to read through and help improve your maths understanding.</p> <p>Calculating probabilities - KS3 Maths - BBC Bitesize</p>	<p>3. Maths challenge.</p> <p>For exploring, questioning, working systematically, visualising, conjecturing, explaining, generalising, justifying, proving... are all at the heart of mathematical thinking.</p> <p>Exploring and Noticing Structure (maths.org)</p>
<p>4. Maths antics videos</p> <p>Youtube channel to help aid retrieval of KS3 maths concepts. Pythagoras is one of the topics this half term.</p> <p>Pythagoras</p> <p>Math Antics - The Pythagorean Theorem - YouTube</p>	<p>5. 50 Mathematical Ideas You Really Need to Know by Tony Crilly</p> <p>"Master the central ideas of maths that shape the world we live in today."</p>	<p>6. Sparx XP boost, Target and Independent learning</p> <p>Boost your XP with more tasks that are similar (XP boost), try harder tasks to improve your understanding with "Target", or try something different using the "Independent learning section".</p>



Mathematics Homework - Year 9
Summer 1 - Standard Form, Volume, Venn Diagrams, Linear Graphs & Data

Retrieval	Reading	Rewarding
<p>1. Sparx tasks</p> <p>All students must complete the 4 week block of compulsory tasks.</p> <p>Set on Wednesday and due Wednesday the following week. Start date will be told by teachers in September.</p> <p>Sparx student login</p> <p>COMPULSORY TASK</p>	<p>2. MME – Standard form, Venn Diagrams, Straight Line Graphs,</p> <p>A website to read through and help improve your maths understanding.</p> <p>MME Standard form MME Venn diagrams MME $y=mx + c$ MME drawing a straight line graph</p>	<p>3. University of Cambridge - nrich project</p> <p>The NRICH Project aims to enrich the mathematical experiences of all learners.</p> <p>Markov Matrices Age 14 -18</p>
<p>4. Corbett Maths Videos</p> <p>Corbett Maths video to help aid retrieval of KS3 maths concepts. The gradient of a line is linked to coordinates and graphs in Year 9.</p> <p>Finding the gradient of a line</p>	<p>5. The Mathematical Universe: Alphabetical Journey Through the Great Proofs, Problems & Personalities by William Dunham Age 14+</p> <p>In this book, Dunham takes us through a tantalising selection of the great proofs, notorious disputes, and intriguing unsolved mysteries of the mathematical universe.</p>	<p>6. Sparx XP boost, Target and Independent learning</p> <p>Boost your XP with more tasks that are similar (XP boost), try harder tasks to improve your understanding with "Target", or try something different using the "Independent learning section".</p>



Mathematics Homework - Year 9

Summer 2 - Simultaneous Equations (Linear), Scatter Graphs, Probability Trees, Plans & Elevations of 3D

Retrieval	Reading	Rewarding
<p>1. Sparx tasks</p> <p>All students must complete the 4 week block of compulsory tasks.</p> <p>Set on Wednesday and due Wednesday the following week. Start date will be told by teachers in September.</p> <p>Sparx student login</p> <p>COMPULSORY TASK</p>	<p>2. MME – Simultaneous equations (both linear) Scatter Graphs, Probability Trees, 2D representation of 3D shapes.</p> <p>A website to read through and help improve your maths understanding.</p> <p>MME Linear Simultaneous equations MME Scatter Graphs MME Probability Trees MME 3D shapes - Projections, plans and elevations</p>	<p>3. University of Cambridge - nrich project</p> <p>The NRICH Project aims to enrich the mathematical experiences of all learners.</p> <p>nrich simultaneous equations challenge 1 star</p> <p>nrich simultaneous equations challenge 2 star</p>
<p>4. Corbett Maths Videos</p> <p>Corbett Maths video to help aid retrieval of KS3 maths concepts.</p> <p>Probability Trees Plans and Elevations Simultaneous Equations</p>	<p>5. The Code Book by Simon Singh Age 14+</p> <p>A history of man's urge to uncover the secrets of codes, from Egyptian puzzles to modern day computer encryptions.</p>	<p>6. Sparx XP boost, Target and Independent learning</p> <p>Boost your XP with more tasks that are similar (XP boost), try harder tasks to improve your understanding with "Target", or try something different using the "Independent learning section".</p>