



Mathematics Homework - Year 8
Autumn 1 - 'Number Essentials, Area & Perimeter'

Retrieval	Reading	Rewarding
<p>1. Sparx tasks</p> <p>All students to 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. Start date will be told by teachers in September. Sparx student login</p> <p>COMPULSORY TASK</p>	<p>2. A book about Maths that will entertain Children of all abilities by Johnny Ball</p> <p>All about Numbers</p>	<p>3. If you are finished work, but want to have to think while you play - Coolmathgames.com – a website of games that actually require logical mathematical thinking</p>
<p>4. A video about one of the stranger and more surprising Number sequences = the Fibonacci Sequence</p>	<p>5. The boy who loved Math: The Improbable life of Paul Erdos – a biography of an amazing mathematician written for children and young adults.</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 8
Autumn 2 - 'Number Essentials, Area & Perimeter'

Retrieval	Reading	Rewarding
<p>1. Sparx tasks</p> <p>All students to 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. Start date will be told by teachers in September.</p> <p>Sparx student login</p> <p>COMPULSORY TASK</p>	<p>2. Murderous Maths: Savage Shapes by Kjartan Poskitt</p> <p>Interesting and surprising facts about familiar shapes</p>	<p>3. A podcast about the history of maths for children and young adults –</p> <p>A Brief History of Mathematics</p>
<p>4. Ace Maths videos</p> <p>Expanding a Bracket</p>	<p>5. The Indisputable Existence of Santa Claus by Hannah Fry – a fun book that uses maths to investigate the big question. For more able pupils.</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 8
Spring 1 - 'Graphs, Standard Form & Data'

Retrieval	Reading	Rewarding
<p>1. Sparx tasks</p> <p>All students to 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. Start date will be told by teachers in September.</p> <p>Sparx student login</p> <p>COMPULSORY TASK</p>	<p>2. MME – Straight Line Graphs, Standard Form, Pie Charts</p> <p>A website to read through and help improve your maths understanding.</p> <ul style="list-style-type: none">• MME Straight Line Graphs• Standard Form• Pie Charts	<p>3. UKMT Maths challenge.</p> <p>For learners who want to test themselves outside of the regular maths curriculum. We enter students in year 8 for the Junior maths challenge. A sample of questions is linked here:</p> <p>JMC 2019</p>
<p>4. Corbett Maths Videos</p> <p>Free website to help aid retrieval of KS3/KS4 maths concepts. This half term we cover Straight Line Graphs, Standard Form, Pie Charts</p> <ul style="list-style-type: none">• Straight Line Graphs• Standard Form• Pie Charts	<p>5. Book of Curious & Interesting Mathematics by David Wells</p> <p>Strange mathematical facts and stories, record-breaking monkeys and calming algebra!</p> <p>Curious & Interesting Mathematics</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 8
Spring 2 - 'Algebra & The Circle'

Retrieval	Reading	Rewarding
<p>1. Sparx tasks</p> <p>All students to 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. Start date will be told by teachers in September. Sparx student login</p> <p>COMPULSORY TASK</p>	<p>2. MME – Algebra, Circles</p> <p>A website to read through and help improve your maths understanding.</p> <ul style="list-style-type: none">• Rearranging Formulae• Factorising Single Bracket• Circumference and Area of Circles	<p>3. UKMT Maths challenge.</p> <p>For learners who want to test themselves outside of the regular maths curriculum. We enter students in year 8 for the Junior maths challenge. A sample of questions is linked here:</p> <p>JMC 2020</p>
<p>4. Corbett maths videos</p> <p>Free website to help aid retrieval of KS3/KS4 maths concepts.</p> <ul style="list-style-type: none">• Circumference of a Circle• Area of a Circle	<p>5. Mathematics for the Curious by Peter Higgins</p> <p>A book that gives clear explanations of the funny mysterious features of Mathematics....strange connections and enjoyable surprises.</p> <p>Mathematics for the Curious</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 8
Summer 1 - 'Ratio, Fractions, Decimals, Proportion & Equations'

Retrieval	Reading	Rewarding
<p>1. Sparx tasks</p> <p>All students to 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. Start date will be told by teachers in September. Sparx student login</p> <p>COMPULSORY TASK</p>	<p>2. A book discussing mathematical problems that pop up in everyday life:</p> <p>How Many Socks Make a Pair?</p>	<p>3. A fun problem solving app:</p> <p>https://www.euclidea.xyz/</p>
<p>4. A nice introduction to ratio and simplifying:</p> <p>GCSE Maths - What are Ratios & How to Simplify Them (Part 1) #81 (youtube.com)</p>	<p>5. A colouring book featuring interesting mathematical patterns:</p> <p>Snowflake, Seashell, Star: Colouring 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 8

Summer 2 - 'Comparing Data, Pythagoras' Theorem, Transformations, Trigonometry, Congruence & Scaling'

Retrieval	Reading	Rewarding
<p>1. Sparx tasks</p> <p>All students to 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. Start date will be told by teachers in September.</p> <p>Sparx student login</p> <p>COMPULSORY TASK</p>	<p>2. A fun mathematical fiction adventure:</p> <p>The Number Devil</p>	<p>3. A fun problem solving app:</p> <p>https://brilliant.org/s/math/</p>
<p>4. A summary of how to use Pythagoras' theorem:</p> <p>GCSE Maths - Pythagoras' Theorem And How To Use It #120</p>	<p>5. A book discussing the mathematical concepts featured in The Simpsons:</p> <p>The Simpsons and Their Mathematical Secrets Paperback</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>