



Year 8 Curriculum Overview

**\*\*Note: Objectives in blue are additional higher content for extension\*\***

In addition to google classroom, maths home Learning is completed using Hegarty Maths. A Home Support guide can be found here.



Half Term 1		
Date	Curriculum Overview	Home Learning <a href="#">Hegarty Maths Video and Quiz Numbers</a>
WC 02/09	<b>Constructing, measuring and using geometric notation</b> <ul style="list-style-type: none"> <li>- Drawing and measuring lines and angles using a ruler and protractor</li> <li>- Understanding and using notation for lines and angles</li> <li>- Understand parallel and perpendicular</li> <li>- Recognise types of triangle, quadrilateral and other polygons</li> <li>- Drawing triangles given SSS, SAS, ASA</li> <li>- Drawing and interpreting pie charts</li> </ul>	
WC 06/09		
WC 13/09		
WC 20/09	<b>Geometry</b> <ul style="list-style-type: none"> <li>- Solve problems using the area of rectangles and parallelograms</li> <li>- Solve problems using the area of triangles</li> <li>- <b>Solve problems using the area of trapezia (H)</b></li> <li>- Understand and use letter and labelling conventions including those for geometric figures</li> <li>- Draw and measure line segments including geometric figures</li> <li>- Understand angles as a measure of turn</li> <li>- Measure angles up to 180°</li> <li>- Draw angles up to 180°</li> <li>- Draw and measure angles between 180° and 360°</li> </ul>	554 - Rectangles 556 - Parallelograms 557 - Triangles <b>559 – Trapezia (H)</b>  456 – Naming sides and angles
WC 27/09		812 – Angles around a point (1) 813 - Angles around a point (2) 477 – Angles on a straight line (1) 478 - Angles on a straight line (2) 480 – Vertically opposite angles
WC 04/10	<b>Ratio and Scale</b> <ul style="list-style-type: none"> <li>- Understand ratio and its link to multiplication</li> <li>- Circumference of a circle</li> <li>- Use ratio notation</li> <li>- Reduce ratios to simplest form</li> <li>- Solve ratio problems</li> <li>- <b>Ratio in the form 1:n</b></li> <li>- <b>Comparing ratios</b></li> </ul>	329 – Simplify Ratios 331 – Write ratios in the form 1:n or n:1 332 – Share in a given ratio 333 – Share in a given ratio 334 – Share in a given ratio 335 – Harder problems involving ratios 330 – Write ratios as fractions/proportions
WC 11/10		
Half Term 2		
Date	Curriculum Overview	Home Learning <a href="#">Hegarty Maths Video and Quiz Numbers</a>
WC 01/11	<b>Multiplicative Change</b>	339 to 341 – Direct proportion 739 to 740 – Recipe problems

WC 08/11	<ul style="list-style-type: none"> <li>- Use scale factors, linking to ratio, to solve simple directional proportion problems</li> <li>- Scale diagrams and maps</li> </ul>	864 to 868 Scale diagrams 608 to 610 Similar polygons 611 to 613 Similar triangles 712 to 713 Conversion graphs 707 to 708 Converting currency
WC 15/11	<b>Multiplying and dividing fractions</b> <ul style="list-style-type: none"> <li>- Multiplying and dividing a fraction by an integer</li> <li>- Multiplying and dividing a fraction by a fraction</li> <li>- <b>Multiplying and dividing mixed numbers</b></li> </ul>	67 – Multiply whole number by fractions 68, 69 - Multiplying fractions 70 – Dividing fractions 71 – Reciprocal of fractions 172 – Expressions with algebraic fractions
WC 22/11		
WC 29/11	<b>Working in a Cartesian plane</b> <ul style="list-style-type: none"> <li>- Plotting and interpreting straight line graphs</li> <li>- Equations of lines parallel to the axes</li> <li>- Model situations by translating them into expressions, formulae and graphs</li> <li>- <b>Find the equation of a straight line (H)</b></li> <li>- <b>Find the mid-point of a line segment (H)</b></li> <li>- <b>Find the gradient of a line segment (H)</b></li> <li>- <b>Drawing quadratic graphs (H)</b></li> </ul>	199 – Cartesian axes and coordinates 205 – Drawing line graphs from coordinates
WC 06/12		206 - 208 – Straight line graphs
WC 13/12		200 – midpoint of a line segment 201 – Gradient of a line segment
		251 – Drawing quadratic graphs from a table

### Half Term 3

Date	Curriculum Overview	Home Learning <a href="#">Hegarty Maths Video and Quiz Numbers</a>
WC 03/01	<b>Collecting and Representing data</b> <ul style="list-style-type: none"> <li>- Scatter graphs and correlation (and line of best fit)</li> <li>- Listing outcomes</li> <li>- Read, interpret and collect data in frequency tables</li> <li>- Represent and interpret data in two way tables</li> </ul>	453 – Scatter Diagrams (1) 454 – Scatter Diagrams (2)
WC 10/01		401 - Data collection sheets (tally charts) 402 - Grouped frequency tables (discrete) 403 - Grouped frequency tables (continuous)  422 - Two way tables
WC 17/01	<b>Probability (Further)</b> <ul style="list-style-type: none"> <li>- Sample space diagrams</li> <li>- Probabilities from two way tables</li> <li>- Probabilities from venn diagrams</li> <li>- <b>Product rule for number of outcomes (H)</b></li> </ul>	358 - 359 - Probability of more than one event 423 - 424 - Two way tables 383 - 384 - Venn diagrams for probability (1) and (2) extension: 385 - Venn diagrams for probability (3) <b>671 - 672 - Product rule for counting</b>
WC 24/01		
WC 31/01	<b>Brackets, equations and inequalities</b> <ul style="list-style-type: none"> <li>- Forming and using expressions, formulae and identities</li> <li>- Multiplying out single brackets</li> <li>- Factorise into a single bracket</li> <li>- Forming and solving equations and inequalities, with and without brackets</li> </ul>	151 - 153 - Writing algebraic expressions (1) (2) and (3) 154 - Expressions, equations, identities and formulae 160 - Expand a single bracket 161 - Expand two single brackets & simplify 168 - 169 - Factorise simple expressions (1) and (2)
WC 07/02		

### Half Term 4

Date	Curriculum Overview	Home Learning <a href="#">Hegarty Maths Video and Quiz Numbers</a>
WC 21/02	-	
WC 28/02		
WC 07/03	•	
WC 14/03		
WC 21/03		
WC 28/03		

### Half Term 5

Date	Curriculum Overview	Home Learning <a href="#">Hegarty Maths Video and Quiz Numbers</a>
WC 19/04	-	
WC 26/04		
WC 02/05	-	
WC 09/05	-	
WC 16/05		
WC 23/05		

**Half Term 6**

Date	Curriculum Overview	Home Learning <a href="#">Hegarty Maths Video and Quiz Numbers</a>
WC 06/06	-	
WC 13/06		
WC 20/06		
WC 27/06		
WC 04/07		
WC 11/07		
WC 18/07		