## **Year 8 Maths Curriculum**

This document provides an overview of the key topics your child will study in Year 8. A copy is also available in your child's Learning Journey book.

Term	Block	Unit	Topics	Sparx Code	R	Α	G	Revision Tracker
	Percentages	Percentages of amounts	Finding percentages of amounts without a calculator Finding percentages of amounts with a calculator	M437 M905				
		Percentage change	Percentage change without a calculator Percentage change with a calculator	M476 M533				
	Money	Calculating with money	Value for money	M681				
1	Indices	Index laws	Index rules with positive indices Index rules with negative indices Simplifying expressions using index laws Simplifying algebraic fractions by cancelling common factors	M608 M150 M120 M568				
	Equations	Solving equations	Solving equations of the form (x+a)/b=c Solving linear equations involving brackets Solving equations with the unknown on both sides Solving equations with the unknown in the denominator Constructing and solving equations	M401 M902 M554 M387 M957				
			Half Term					
	Sequences		Term-to-term rules for numerical sequences	M381				
Term		Term-to-term rules	Term-to-term rules for sequences of patterns	M241				
		Position-to-term rules	Substituting into position-to-term rules Position-to-term rules for arithmetic sequences Position-to-term rules for sequences of patterns	M166 M991 M866				
	Ratio	Ratio	Writing and simplifying ratios Writing ratios in the form 1:n Converting between ratios, fractions and percentages Using equivalent ratios to find unknown amounts Sharing amounts in a given ratio	M885 M543 M267 M801 M525				
		Scale diagrams	Drawing and interpreting scale diagrams	M112				
Term 1 Assessment								
Christmas Holidays								

To prepare for their assessments, students are encouraged to:

- 1. Use the Red, Amber, Green columns to rate their confidence in each topic.
- 2. **Use the Sparx codes** to access helpful videos and practice questions, focusing on areas that need further revision. Once the Sparx task is completed, students should tick it off on their revision tracker.

Term	Block	Unit	Topics	Sparx Code	R	Α	G	Revision Tracker	
	Rounding	Significant figures	Rounding integers using significant figures Rounding decimals using significant figures Estimating calculations	M994 M131 M878					
	Coordinates	Coordinates and midpoints	Calculating midpoints Mixed problems: Coordinates and midpoints	M622 M311					
	Area	Area and units	Finding the area of parallelograms Finding the area of trapeziums Converting units of area	M291 M705 M728					
	Circles	Area and circumference	Identifying parts of circles Finding the circumference of circles Finding the area of circles	M595 M169 M231					
8	Standard form	Standard form and ordinary numbers	Using standard form with positive indices Using standard form with negative indices	M719 M678					
	Half Term								
Term 2	Venn diagrams	Venn diagrams	Venn diagrams Probabilities from Venn diagrams	M829 M419					
		Factors, multiples and primes	Finding the HCF and LCM using prime factor decomposition	M365					
	3D shapes	Nets	Properties of 3D shapes Nets of 3D shapes	M767 M518					
	Surface area and volume	Surface area	Finding the surface area from a net Finding the surface area of cubes and cuboids Finding the surface area of prisms	M884 M534 M661					
		Volume	Finding the volume of cubes and cuboids Finding the volume of prisms Converting units of volume	M765 M722 M465					
Term 2 Assessment									

Term	Block	Unit	Topics	Sparx Code	R	Α	G	Revision Tracker		
	Linear graphs	Plotting graphs and finding	Plotting horizontal, vertical and diagonal lines	M797						
		equations	Plotting straight line graphs	M932	Ш					
			Finding equations of straight line graphs	M544	Ш					
	Transformations	Transforming shapes	Translation	M139						
			Reflection Angles in quadrilaterals	M290 M679	$\vdash$					
	Angles		Combining angle facts	M319	Н					
		Finding unknown angles	Angles on parallel lines	M606	Н					
		Finding unknown angles	Using quadrilateral properties to find angles	M393	$\vdash$					
			Angles in polygons	M653	Н					
	Statistical diagrams		Drawing pie charts	M574	$\vdash$					
			Interpreting pie charts	M165	$\vdash$					
		Drawing and interpreting	Drawing line graphs	M140						
00		statistical diagrams	Interpreting line graphs	M183	П					
4.7										
			Finding averages from diagrams	U854						
<b>Term</b>	End of Year Assessment									
	Half Term									
	Inequalities	Linear inequalities	Reading and drawing linear inequalities on number lines	M384						
<b>O</b>			Solving single inequalities	M118						
	Bernstein	511-111	Expanding double brackets	M960	Н					
	Brackets	Double brackets	Calculating with fractions	M645	Н					
	Algebraic fractions		Calculating with mixed numbers	M619						
			Calculating with mixed flambors	1015						
		Fractions review								
			Simplifying algebraic fractions by factorising	M754	Н					
			Adding and subtracting algebraic fractions	M336						
	Popurring decimals	Fractions and recurring	Using recurring decimal notation	M701	П					
	Recurring decimals	decimals	Converting fractions to recurring decimals	M922						
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	Term 3 Assessment									