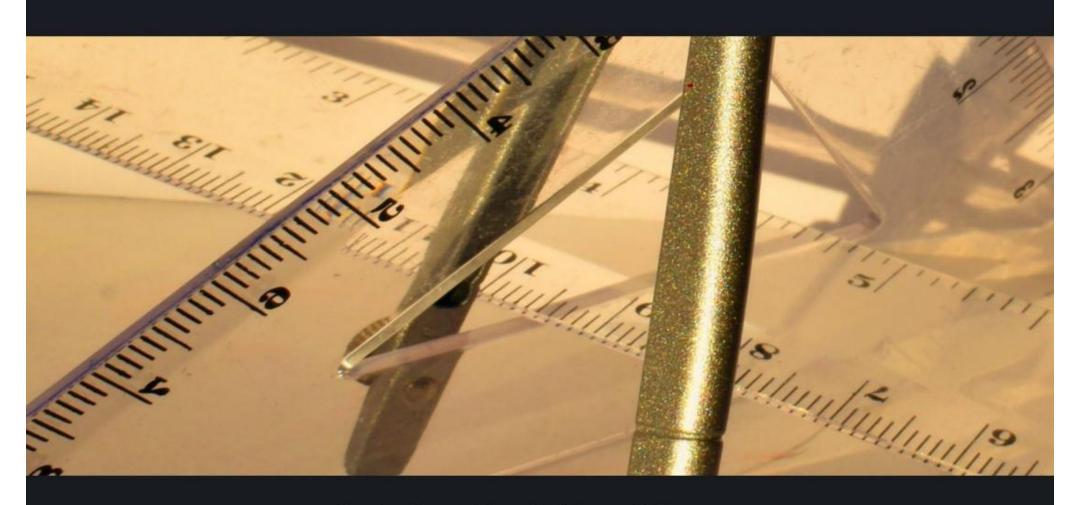
# MATHS



**Curriculum Aims, Delivery & Content** 

## Year 7 Maths Curriculum

This document provides an overview of the key topics your child will study in Year 7.

Term	Block	Unit	Topics	Sparx Code	R	A	G	Revision Tracker
		Number sense	Using number lines Integer place value Decimal place value Ordering negative numbers Rounding integers Rounding decimals	M763 M704 M522 M527 M111 M431				
			Baseline Assessm					
	Number sense and calculations  Multiplying  Dividing	Adding and subtracting	Adding integers Adding decimals Subtracting integers Subtracting decimals	M928 M429 M347 M152				
		Multiplying	Multiplying and dividing by 10, 100 and 1000 Multiplying using place value Using a written method to multiply integers Using a written method to multiply decimals	M113 M911 M187 M803				
		Dividing	Dividing numbers into equal groups Using a written method to divide integers Dividing with remainder Dividing by integers to get a decimal answer Using a written method to divide by decimals	M462 M354 M873 M262 M491				
~			Adding and subtracting with negative numbers Multiplying and dividing with negative numbers	M106 M288				
Term 1		Calculating with roots and powers Using the correct order of operations Using the commutative laws Using the associative laws	M135 M521 M952 M409					
a			Half Term	- Annual Control	-		_	
Ĕ		Expressions	Algebraic notation Algebraic terminology Simplifying expressions containing a single variable Simplifying expressions containing multiple variables Simplifying expressions containing multiple variables	M813 M830 M795 M531 M949				
	Expressions and equations	Substitution	Substituting into expressions with one operation Substituting into expressions with multiple operations Substituting into algebraic formulae Substituting into real-life formulae	M417 M327 M208 M979				
		Solving equations	Solving equations with one step Solving equations of the form xx+b=c Solving equations of the form x/a+b=c	M707 M634 M647				
	Measures	Time	Converting units of time Using clocks Calculating with time Using timetables Using calendars	M515 M892 M627 M963 M747				
		Measures	using calendars Estimating and measuring length, mass and capacity Converting units of length, mass and capacity Using appropriate units	M828 M774 M487				
		To	erm 1 Assessment Christmas Holiday					

To prepare for their assessments, students are encouraged to:

- 1. Use the Red, Amber, Green columns to rate their confidence in each topic.
- 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		G	
			Line properties	M814				
	2D Shapes	Line and shape properties	Shape properties	M276				-
			Symmetry	M523				Revision
			Finding perimeters using grids	M920				
		Perimeter	Finding the perimeter of rectangles and simple shapes		$\vdash$	_		
	the second second		Finding the perimeter of compound shapes	M523 M920	_			
	Perimeter and area		Finding areas using grids					-
	r orinional and area		Finding the area of rectangles	1000000				8
		Area	Finding the area of compound shapes					
			Finding the area of triangles	1				
			Finding the area of compound shapes containing					
	Coordinates	Coordinates and shapes	Reading and plotting coordinates					
	- Continue		Solving shape problems involving coordinates	100000				
			Finding the lowest common multiple					
Ferm 2	and the second second second	Factors and multiples	Finding factors and using divisibility tests					
	ctors, multiples and prin		Finding the highest common factor	M698				
		Primes	Finding prime numbers	M322				
a			Prime factor decomposition	M108				
•			Half Term					
			Finding fractions of shapes					4
			Constructing fractions	M939				
		Writing and comparing	Finding equivalent fractions					
	Fractions	fractions	Simplifying fractions					ŝ
	Fractions		Ordering fractions	M335				
			Converting between mixed numbers and improper	M601				
		Adding and subtracting	Adding and subtracting fractions	M835				
		fractions	Adding and subtracting mixed numbers	M931				
			Using the distributive law	M637				
	Brackets	Single brackets	Expanding single brackets	M237				8
	Drackets	unigie Didukets	Expanding single brackets and simplifying expressions	M792				
			Factorising into one bracket	M100				
		Te	erm 2 Assessment					

Term	Block	Unit	Topics	Sparx Code	R	А	G	Revision Tracker
	Total Control of the		Types of angles	M502			-	3
		Angles	Estimating angles	M541				
		Angles	Measuring angles	M780				Control of the Contro
	Angles		Drawing angles	M331				
	Contraction and		Angles on a line and about a point	M818				
		Finding unknown angles	Vertically opposite angles	M163				
			Angles in triangles	M351				
			Calculating the range	M328				
		Averages and range	Calculating the median	M934				
		Averages and range	Finding the mode	M841			Participation of the last of t	
			Calculating the mean	M940				
	and the second		Interpreting frequency tables and two-way tables	M899	$\Box$			
	Handling data and		Drawing and interpreting tally charts	M597				Control of the Contro
Term 3	statistical diagrams	Tables and charts	Drawing and interpreting pictograms	M644	$\Box$			
		Control Control Control Control	Drawing bar charts	M460				
			Interpreting bar charts	M738	$\Box$			
		Harris and the second	Collecting and recording data using tables	M945				
		Collecting and presenting	Finding averages from frequency tables	M127	$\overline{}$			
		data	Choosing suitable averages and solving problems	M440				
			Half Term		_	_		
	Proportion	Proportion word problems	Solving proportion problems	M478				
(a)		End	of Year Assessment					
			Reciprocals	M216				
		Maddahdan and distribute	Multiplying fractions	M157				
		Multiplying and dividing fractions	Dividing fractions	M110				
		macdons	Multiplying with mixed numbers	M197				
	Fractions, decimals		Dividing with mixed numbers	M265		2.0		
	and percentages	Fractions of amounts	Fractions of amounts without a calculator	M695				
	and percentages	Fractions of amounts	Fractions of amounts with a calculator	M684				
			Converting between fractions and decimals	M958				- 0
		Fractions, decimals and	Converting between fractions, decimals and	M264				
		percentages	Ordering fractions, decimals and percentages	M553				
			Writing numbers as percentages of other numbers	M235				
			Using probability phrases	M655				
			Writing probabilities as fractions	M941				
	Probability	Theoretical probability	Writing probabilities as fractions, decimals and	M938				- 5
	TO A CHESTON AND STATE OF THE S	and the contract of the contra	Probabilities of mutually exclusive events	M755				
			Sample space diagrams	M718				
			2 1					
		T(	erm 3 Assessment					

## 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.

- 1				Code	R		Ĭ	Tracker				
			Finding percentages of amounts without a calculator	M437								
	Percentages	Percentages of amounts	Finding percentages of amounts with a calculator	M905								
	1 croomagos	Percentage change	Percentage change without a calculator	M476								
								1				
	Money	Calculating with money						9				
	Indices	Index laws		100000000000000000000000000000000000000								
	muices	IIIOUX IBWO	Simplifying expressions using index laws	100000000000000000000000000000000000000								
			Finding percentages of amounts with a calculator M905  Percentage change without a calculator M476 Percentage change without a calculator M533  Index rules with positive indices M608 Index rules with positive indices M508 Simplifying appears in suring index laws M150 Simplifying equations using index laws M150 Solving equations with the unknown on both sides M502 Solving equations with the unknown in the denominator M387 Constructing and solving equations M554 Solving equations with the unknown in the denominator M387 Constructing and solving equations M557  Half Term  Term-to-term rules for numerical sequences M381 Term-to-term rules for arithmetic sequences M991 Position-to-term rules for arithmetic sequences M991 Position-to-term rules for sequences of patterns M666  Writing ratios in the form 1:n Virting ratios in the form 1:n Virting requirelent ratios to find unknown amounts M601 Sharing amounts in a given ratio M525 Urawing and interpreting scale diagrams M112									
			Solving linear equations involving brackets	M902	80 8							
			Solving equations with the unknown on both sides	M554		G Tracke						
	Equations	Solving equations	Solving equations with the unknown in the denominator	M387								
			Constructing and solving equations	M957								
			[1] Pr 15 11	122			-					
_			Term-to-term rules for numerical sequences	M381			Г					
		Term-to-term rules	Term-to-term rules for sequences of patterns	M241								
				0.0000	$\overline{}$	-	-					
	Sequences		Substituting into position-to-term rules	M166			-					
			Position-to-term rules for arithmetic sequences	M991		-	-					
		Position-to-term rules	Position-to-term rules for sequences of patterns	M866			-					
				0000000								
			Writing and simplifying ratios	M885		-	-					
				M543			-					
		Ratio	Converting between ratios, fractions and percentages	M267								
				M801								
	Ratio			100000000000000000000000000000000000000	$\vdash$							
						_	-	_				
		Scale diagrams	braning and marpressig score diagrams				-					
		Scale diagrams			$\vdash$	-	-					
								-				

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- 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								
2	Standard form	Standard form and ordinary numbers	Using standard form with positive indices Using standard form with negative indices	M231 M719 M678								
	Half Term											
гm		Venn diagrams	Venn diagrams Probabilities from Venn diagrams	M829 M419								
Term 2	Venn diagrams	Factors, multiples and primes	Finding the HCF and LCM using prime factor decomposition	M365								
	3D shapes	Nets	Properties of 3D shapes	M767								
	ou snapes	mets	Nets of 3D shapes	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								
		Te	erm 2 Assessment									
			Easter Holidays									

Term	Block	Unit	Topics	Sparx Code	R	A		Revision Tracker
	100	Plotting graphs and finding	Plotting horizontal, vertical and diagonal lines	M797				
	Linear graphs	equations	Plotting straight line graphs	M932				The second second
			Finding equations of straight line graphs	M544				
	Transformations	Transforming shapes	Translation Reflection	M139 M290	$\perp$		_	
	The second second	The second contract the second	Angles in quadrilaterals	M290 M679	-		C Management of the Control of the C	
			Combining angle facts	M319	$\vdash$	-	_	
	Angles	Finding unknown angles	Angles on parallel lines	M806	$\vdash$		-	
	Angles	Finding unknown angles	Using quadrilateral properties to find angles	M393	-		-	_
			Angles in polygons	M653	$\vdash$		-	
			Drawing pie charts	M574	-			
			Interpreting pie charts	M165				
		Drawing and interpreting	Drawing line graphs	M140				
~	Statistical diagrams	statistical diagrams	Interpreting line graphs	M183				
4			CONTROL TO THE TOTAL OF T	00000000				
	l de la company		Finding averages from diagrams	U854		1 1	- 6	
Term 3		End	of Year Assessment Half Term Reading and drawing linear inequalities on number lines	M384	_			
e.	Inequalities	Linear inequalities	Solving single inequalities	M118				
	Brackets	Double brackets	Expanding double brackets	M960				
•		2	Calculating with fractions	M645		0-0	-	
	Algebraic fractions	Fractions review	Calculating with mixed numbers	M619				
		Algebraic fractions	Simplifying algebraic fractions by factorising Adding and subtracting algebraic fractions	M754 M336				
	Recurring decimals	Fractions and recurring	Using recurring decimal notation	M701				
	Recurring decimals	decimals	Converting fractions to recurring decimals	M922				
		Ţ	erm 3 Assessment					

# Year 9 Maths Curriculum

This document provides an overview of the key topics your child will study in Year 9.

Term 1

erm	Block	Unit	Topics	Sparx Code	R							
			Percentage change without a calculator	U773		_	1					
			Percentage change with a calculator	U671			*					
	Percentages	Percentage change	Finding original values in percentage calculations	U286								
	The second second	100 March 100 Ma	Finding the percentage an amount has been changed by	U278	П							
			Simple interest calculations	U533								
Ī	-		Using probability phrases	M655			١					
			Writing probabilities as fractions	M941		$\overline{}$	,					
			Writing probabilities as fractions, decimals and percentages	M938			,					
		Percentage change With a calculator U67  Percentage change Percentage change With a calculator U67  Finding original values in percentage calculations U78  Finding the percentage an amount has been changed by U79  Simple interest calculations U79  Writing probabilities as fractions, definations M99  Writing probabilities as fractions, definations M99  Writing probabilities as fractions, definations of M69  Probabilities of mutually exclusive events M79  Sample space diagrams M79  Expected results from repeated experiments U79  Calculations with standard form Mutually exclusive events U79  Auditing probabilities with repeated experiments U79  Calculations with standard form M14  Adding and subtracting numbers in standard form U79  Standard form with a calculator U79  Solving inequalities with the unknown on both sides U79  Solving inequalities with the unknown on both sides U79  Solving double inequalities U79  Constructing and solving quadratic equations of the form x*2+bx+c U71  Factorising and solving quadratic equations of the form x*2+bx+c U71  Factorising to solve quadratic equations of the form x*2+bx+c U71  Factorising to solve quadratic equations of the form x*2+bx+c U71  Factorising to solve quadratic equations of the form x*2+bx+c U71  Factorising to solve quadratic equations of the form x*2+bx+c U71  Factorising to solve quadratic equations of the form x*2+bx+c U71  Factorising to solve quadratic equations of the form x*2+bx+c U71  Changing the subjects of formulae with two or more steps U78  Constructing bisectors and perpendicular bisectors of angles  Constructing perpendicular bisectors and fines U72	M755	П		,						
	Percentages  Percentage change  Percentage change without a calculator Percentage change with a calculators Percentage and anount particles, a calculators Percentage change with a calculators Percentage and anount particles, a calculators Percentage change with a calculators Percentage and anount particles, a calculators	M718	$\Box$		,							
			Expected results from repeated experiments	U166			,					
			Calculating experimental probabilities	U580	$\Box$	$\overline{}$						
			Frequency trees	U280	$\vdash$	R A G						
			Multiplying and dividing numbers in standard form	U264								
	Standard form	Calculations with standard form	Adding and subtracting numbers in standard form	U290		RAG						
			Standard form with a calculator	U161	П							
			dard form with a calculator U161 ng inequalities with the unknown on both sides U738 ng double inequalities U145			•						
	Inequalities	Linear inequalities	Solving double inequalities	U145			•					
O I			Constructing and solving inequalities	U337								
		Enstandator and arbitrar	Factorising quadratic equations of the form x*2+bx+c	U178								
	Quadratic equations											
		quadratic equations	Factorising to solve quadratic equations of the form x^2+bx+c	=0 U228								
					- 0							
	Formulae	Rearranging formulae	Changing the subjects of formulae with two or more steps	U181		_	۰					
			Construction bisactors of angles	11797	+	_	•					
	Constructions				Н	_						
		perpendicular mass		1.0	-	_	•					
				The second second	$\vdash$	_	•					
	Circles	Circles and cylinders			$\vdash$							
				7.000	$\vdash$	_	•					
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		Term	1 Assessment									
			Christmas Holidays									

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### Term 2

Term	Block	Unit	Topics	Sparx Code	R	Α	G				
	Rounding	Error intervals	Finding error intervals Truncating decimals	U657 U108							
	Rounding	Error intervals	Finding error intervals for truncated numbers	U301	H	$\neg$	П				
	3D shapes	Representations of 3D shapes	Plans and elevations	U743	П						
2	Pythagoras' theorem	Pythagoras' theorem in 2D	Using Pythagoras' theorem in 2D Applying Pythagoras' theorem in 2D	U385 U828	Н						
	Rounding 3D shapes	Ratio	Writing and simplifying ratios Sharing amounts in a given ratio	U687 U577	Н		Н				
rm	Ratio and proportion	Proportion word problems	Solving direct proportion word problems Solving inverse proportion word problems Currency conversion	U721 U357 U610							
L	Half Term										
Tel	Linear graphs	Plotting graphs and finding equations	Plotting straight line graphs Finding equations of straight line graphs Interpreting equations of straight line graphs	U741 U315 U669	7 8 8 8 8 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7						
•	Compound measures	Speed and rates	Calculating with speed Calculating with rates	U151 U256	Н		$\vdash$				
	Motion-time graphs	Distance-time graphs	Plotting distance-time graphs Interpreting distance-time graphs Calculating speed from distance-time graphs	U403 U914 U462							
			Plotting distance-time graphs using speeds	U966							
		Term	2 Assessment								
			Easter Holidays								

Term 3

Term	Block	Unit	Topics	Sparx Code	R		G
			Plotting graphs of quadratic functions	U989			
	Quadratic graphs	Plotting and interpreting	Interpreting graphs of quadratic functions	U667			
		quadratic graphs	Solving quadratic equations graphically	U601			Г
			Combining angle facts	U655			Т
			Angles on parallel lines	U826		- 3	Г
		Angles	Using quadrilateral properties to find angles	U329			
	Angles and bearings		Angles in polygons	U427			
		1 20000000	Measuring and drawing bearings	U525			Т
		Bearings	Calculating bearings	U107		- 5	Т
			Translation	U196			т
			Reflection	U799			$^{\dagger}$
	Transformations	Transforming shapes	Rotation	U696	$\vdash$		Н
	100000000000000000000000000000000000000	I Company of the Company	Enlargement by a positive scale factor	U519	$\vdash$		-
			Mixed transformations	M881		-	t
က		To be the second second	Understanding similarity	U551			t
		Similarity		U989 U867 U867 U867 U861 U855 U826 U329 U427 U525 U107 U196 U799 U896 U519 M881 U551 U578 U790 U866 U187  M328 M934 M641 M940 U854 U199 U277 U128 U322 U571 U520	۰		
	Similarity and congruence						۰
	Community and congression	Congnience		0.000000	-	_	۰
		73030000		U187	$\vdash$	- 17	۰
lerm		Lilu oi		M220	_		-
_			Calculating the range				
a)		Averages and range				- 3	L
•			200 m = 1	1110			L
			Calculating the mean	100000000000000000000000000000000000000			
			Finding averages from diagrams	U854			
			Plotting scatter graphs			- 2/	
	Calculating the median  Averages and range Finding the mode Calculating the mean Finding averages from diagrams Plotting scatter graphs Interpreting scatter graphs	U277			Г		
	statistical diagrams		Using lines of best fit	U128	R A G		
	statistical diagrams	Congruence Congruence Congruence Congruence Congruence Congruence Congruent triangles Constructing triangles  Half Term  End of Year Assessment  Calculating the range Calculating the median Finding the median Finding the median Finding the mean Finding the range Calculating the median Finding the median Finding the range Calculating the			- 3		
		Collection and presenting data		100			L
		Conecting and presenting data	Comparing populations using diagrams	- CONTROL - CONT			
			Choosing suitable averages and solving problems	100			
			Interpreting frequency tables with grouped data	U312			
		Grouped data	Finding averages from grouped data	U877			
			Drawing and interpreting frequency polygons	U840			Г
			Understanding column vectors	U632			Г
	Vectors	6-1	Adding and subtracting column vectors	U903			Г
	Vectors	Column vectors	Multiplying column vectors by a scalar	U564		- 3	Г
			Identifying parallel vectors	U660			Г
		Term	3 Assessment				