Year 9 Maths Curriculum

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

Term 1

Term	Block	Unit	Topics	Sparx Code	R	Α	G	
	Percentages	Percentage change		U773 U671	П			
				U286	Н			
			, ,	U278	Н		\vdash	
				U533	H			
	Probability	Theoretical and experimental probability	Using probability phrases	M655	П			
			Writing probabilities as fractions	M941	П			
			Writing probabilities as fractions, decimals and percentages	M938	П		П	
			Probabilities of mutually exclusive events	M755	П		\Box	
			Sample space diagrams	M718	П		\Box	
			Expected results from repeated experiments	U166	П			
			Calculating experimental probabilities	U580	П			
_			Frequency trees	U280				
	Standard form	Calculations with standard form	Multiplying and dividing numbers in standard form	U264				
erm			Adding and subtracting numbers in standard form	U290				
				U161				
	Inequalities	Linear inequalities	3 ,	U738	Ш		$oxed{\Box}$	
4				U145	Ш		Ш	
$\mathbf{\Psi}$			gg	U337	Ш		Ш	
	Half Term							
	Quadratic equations	Factorising and solving quadratic equations	4	U178	Ш		igspace	
				U963	Ш		igspace	
			Factorising to solve quadratic equations of the form x^2+bx+c=0		Н		\vdash	
	Formulae Rearrangi	Rearranging formulae	gg	U675 U181	Н		\vdash	
		Rearranging formulae	Changing the subjects of formulae with two of more steps	0101	Н			
		Constructing bisectors and	Constructing bisectors of angles	U787	H			
	Constructions perpendicular lines	Constructing perpendicular bisectors and lines	U245	Н				
	Circles Circles and		Finding the arc length of sectors	U221	Н			
			Finding the area of sectors	U373	H		П	
		Circles and cylinders	Finding the surface area of cylinders	U464	П		П	
			Finding the volume of cylinders	U915	П			
	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 2

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

Term 3

Term	Block	Unit	Topics	Sparx Code	R	A	G
	Quadratic graphs	Plotting and interpreting quadratic graphs	Plotting graphs of quadratic functions	U989			
			Interpreting graphs of quadratic functions	U667	\sqcup		ш
			Solving quadratic equations graphically	U601	Ш		
	Angles and bearings	Angles	Combining angle facts	U655			
			Angles on parallel lines	U826	\vdash		\vdash
			Using quadrilateral properties to find angles	U329 U427	\vdash		$\vdash\vdash$
			Angles in polygons Measuring and drawing bearings	U525	\vdash	_	_
		Bearings	Calculating bearings	U107	\vdash		₩
1			Translation	U196	\vdash		\vdash
	Transformations	Transforming shapes	Reflection	U799	H		\vdash
			Rotation	U696	H		\vdash
			Enlargement by a positive scale factor	U519	H		+
			Mixed transformations	M881	\vdash	_	\vdash
		Similarity	Understanding similarity	U551	┥	-	\vdash
	Similarity and congruence		Finding unknown sides in similar shapes	U578	\vdash	-	\vdash
		Congruence	Understanding congruence	U790	↤	-	$\vdash\vdash$
(L)			Congruent triangles	U866	H		\vdash
			Constructing triangles	U187	\vdash	_	\vdash
			Half Term				Н
Ferm 3		End of `	Year Assessment				
	Handling data and statistical diagrams	Averages and range	Calculating the range	M328			
(1)			Calculating the median	M934	П		
. •			Finding the mode	M841			
			Calculating the mean	M940			
			Finding averages from diagrams	U854			
		Scatter graphs	Plotting scatter graphs	U199			
E.			Interpreting scatter graphs	U277			
			Using lines of best fit	U128			
	Collecting and presenting Grouped data Vectors Column vectors		Types of data	U322	Ш		Ш
		Collecting and presenting data	Presenting data and making conclusions	U571	Ш		Ш
		concerning and procenting data	Comparing populations using diagrams	U520	ш		Ш
			Choosing suitable averages and solving problems	U717	Ш		Ш
			Interpreting frequency tables with grouped data	U312	Ш		Ш
			Finding averages from grouped data	U877	Ш		Ш
			Drawing and interpreting frequency polygons	U840			Ш
			Understanding column vectors	U632	\sqcup		\sqcup
			Adding and subtracting column vectors	U903	\sqcup		\sqcup
			Multiplying column vectors by a scalar	U564	\sqcup		Ш
			Identifying parallel vectors	U660			
		Term	3 Assessment				