

## 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	A	G	
Term 1	Percentages	Percentage change	Percentage change without a calculator	U773				
			Percentage change with a calculator	U671				
			Finding original values in percentage calculations	U286				
			Finding the percentage an amount has been changed by	U278				
			Simple interest calculations	U533				
	Probability	Theoretical and experimental probability	Using probability phrases	M655				
			Writing probabilities as fractions	M941				
			Writing probabilities as fractions, decimals and percentages	M938				
			Probabilities of mutually exclusive events	M755				
			Sample space diagrams	M718				
		Expected results from repeated experiments	U166					
		Calculating experimental probabilities	U580					
	Frequency trees	U280						
	Standard form	Calculations with standard form	Multiplying and dividing numbers in standard form	U264				
			Adding and subtracting numbers in standard form	U290				
			Standard form with a calculator	U161				
	Inequalities	Linear inequalities	Solving inequalities with the unknown on both sides	U738				
			Solving double inequalities	U145				
			Constructing and solving inequalities	U337				
	Half Term							
	Quadratic equations	Factorising and solving quadratic equations	Factorising quadratic equations of the form $x^2+bx+c$	U178				
			Factorising the difference of two squares	U963				
			Factorising to solve quadratic equations of the form $x^2+bx+c=0$	U228				
	Formulae	Rearranging formulae	Changing the subjects of formulae with one step	U675				
			Changing the subjects of formulae with two or more steps	U181				
Constructions	Constructing bisectors and perpendicular lines	Constructing bisectors of angles	U787					
		Constructing perpendicular bisectors and lines	U245					
Circles	Circles and cylinders	Finding the arc length of sectors	U221					
		Finding the area of sectors	U373					
		Finding the surface area of cylinders	U464					
		Finding the volume of cylinders	U915					
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	A	G	
Term 2	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				
			Sharing amounts in a given ratio	U577				
		Proportion word problems	Solving direct proportion word problems	U721				
			Solving inverse proportion word problems	U357				
	Currency conversion	U610						
	Half Term							
	Linear graphs	Plotting graphs and finding equations	Plotting straight line graphs	U741				
Finding equations of straight line graphs			U315					
Interpreting equations of straight line graphs			U669					
Compound measures	Speed and rates	Calculating with speed	U151					
		Calculating with rates	U256					
Motion-time graphs	Distance-time graphs	Plotting distance-time graphs	U403					
		Interpreting distance-time graphs	U914					
		Calculating speed from distance-time graphs	U462					
		Plotting distance-time graphs using speeds	U966					
Term 2 Assessment								
Easter Holidays								

### Term 3

# Term 3