

Term	Block	Unit	Topics	Topic Code	Building blocks	Topic Code	Further topics to explore	Topic Code
Term 1	Percentages	Percentages of amounts	Finding percentages of amounts without a calculator	M437	Converting between fractions, decimals and percentages	M264		
			Finding percentages of amounts with a calculator	M905	Fractions of amounts without a calculator Fractions of amounts with a calculator	M695 M684		
	Percentage change	Percentage change without a calculator	M476	Finding percentages of amounts without a calculator	M437	Finding original values in percentage calculations (Year 9 Term 1)	U286	
		Percentage change with a calculator	M533	Finding percentages of amounts with a calculator	M905			
	Money	Calculating with money	Value for money	M681	Solving proportion problems Adding decimals Subtracting decimals Using a written method to multiply decimals Using a written method to divide by integers to get a decimal answer	M478 M429 M152 M803 M262		
			Index rules with positive indices	M608	Calculating with roots and powers	M135		
			Index rules with negative indices	M150	Simplifying fractions	M671		
			Simplifying expressions using index laws	M120	Algebraic notation	M813		
	Equations	Solving equations	Simplifying algebraic fractions by cancelling common factors	M568				
			Solving equations of the form $(x+a)/b=c$	M401	Solving equations with one step	M707		
Solving linear equations involving brackets			M902	Expanding single brackets	M237			
Solving equations with the unknown on both sides			M554	Solving equations of the form $ax+b=c$	M634			
Sequences	Term-to-term rules	Solving equations with the unknown in the denominator	M387	Solving equations of the form $x/a+b=c$	M647			
		Constructing and solving equations	M957	Simplifying expressions containing a single variable Substituting into expressions with multiple operations	M795 M327			
		Term-to-term rules for numerical sequences	M381	Using number lines	M763			
		Term-to-term rules for sequences of patterns	M241	Adding and subtracting with negative numbers Multiplying and dividing with negative numbers	M106 M288			
Ratio	Ratio	Substituting into position-to-term rules	M166	Term-to-term rules for numerical sequences	M381			
		Position-to-term rules for arithmetic sequences	M991	Term-to-term rules for sequences of patterns	M241			
		Position-to-term rules for sequences of patterns	M866	Solving equations of the form $ax+b=c$ Substituting into expressions with multiple operations	M634 M327			
		Writing and simplifying ratios	M885	Finding the highest common factor	M698	Combining ratios (Year 10 Term 2)	U921	
Scale diagrams	Writing ratios in the form 1:n	M543	Constructing fractions	M939				
	Converting between ratios, fractions and percentages	M267	Writing numbers as percentages of other numbers	M235				
Scale diagrams	Using equivalent ratios to find unknown amounts	M801						
	Sharing amounts in a given ratio	M525						
Rounding	Significant figures	Drawing and interpreting scale diagrams	M112	Writing and simplifying ratios Using equivalent ratios to find unknown amounts Writing ratios in the form 1:n	M885 M801 M543			
		Rounding integers using significant figures	M994			Finding error intervals (Year 9 Term 2)	U657	
Coordinates	Coordinates and midpoints	Rounding decimals using significant figures	M131					
		Estimating calculations	M878					
Area	Area and units	Calculating midpoints	M622	Reading and plotting coordinates	M618			
		Mixed problems: Coordinates and midpoints	M311					
Circles	Area and circumference	Finding the area of parallelograms	M291	Finding the area of rectangles	M390			
		Finding the area of trapeziums	M705	Finding the area of compound shapes	M269			
		Converting units of area	M728	Finding the area of triangles Finding the area of compound shapes containing triangles Converting units of length	M610 M996 M772			
Standard form	Standard form and ordinary numbers	Identifying parts of circles	M595	Calculating with roots and powers	M135	Finding the arc length of sectors (Year 9 Term 1)	U221	
		Finding the circumference of circles	M169	Substituting into algebraic formulae	M208	Finding the area of sectors (Year 9 Term 1)	U373	
Venn diagrams	Venn diagrams	Finding the area of circles	M231	Rounding decimals	M431			
		Using standard form with positive indices	M719	Multiplying and dividing by 10, 100 and 1000	M113	Multiplying and dividing numbers in standard form (Year 9 Term 1)	U264	
Factors, multiples and primes	Factors, multiples and primes	Using standard form with negative indices	M678			Adding and subtracting numbers in standard form (Year 9 Term 1)	U290	
		Standard form with a calculator (Year 9 Term 1)				Standard form with a calculator (Year 9 Term 1)	U161	
Venn diagrams	Venn diagrams	Venn diagrams	M829	Writing probabilities as fractions	M941	Venn diagrams with set notation (Year 10 Term 2)	U748	
		Probabilities from Venn diagrams	M419	Writing probabilities as fractions, decimals and percentages Probabilities of mutually exclusive events	M938 M755			
Venn diagrams	Factors, multiples and primes	Finding the HCF and LCM using prime factor decomposition	M365	Venn diagrams Finding the lowest common multiple Finding factors and using divisibility tests Finding the highest common factor Finding prime numbers Prime factor decomposition	M829 M227 M823 M698 M322 M108			

Term 3

3D shapes	Nets	Properties of 3D shapes	M767	Shape properties	M276		
		Nets of 3D shapes	M518				
Surface area and volume	Surface area	Finding the surface area from a net	M884	Nets of 3D shapes	M518	Finding the surface area of cylinders (Year 9 Term 1)	U464
		Finding the surface area of cubes and cuboids	M534	Finding the area of compound shapes	M269	Finding the surface area of pyramids (Year 10 Term 1)	U871
		Finding the surface area of prisms	M661	Finding the area of compound shapes containing triangles Converting units of length	M996 M772		
	Volume	Finding the volume of cubes and cuboids	M765	Finding the area of compound shapes	M269	Finding the volume of cylinders (Year 9 Term 1)	U915
Finding the volume of prisms		M722	Finding the area of compound shapes containing triangles	M996	Finding the volume of pyramids (Year 10 Term 1)	U484	
Converting units of volume		M465	Converting units of length	M772	Finding the volume of cones (Year 10 Term 1) Finding the volume of spheres (Year 10 Term 1)	U116 U617	
Linear graphs	Plotting graphs and finding equations	Plotting horizontal, vertical and diagonal lines	M797	Reading and plotting coordinates	M618	Interpreting equations of straight line graphs (Year 9 Spring Term)	U669
		Plotting straight line graphs	M932	Substituting into algebraic formulae	M208	Plotting linear real-life graphs (Year 10 Spring Term)	U652
		Finding equations of straight line graphs	M544			Using and finding equations of linear real-life graphs (Year 10 Spring Term)	U862
Transformations	Transforming shapes	Translation	M139	Reading and plotting coordinates	M618	Rotation (Year 9 Term 3)	U696
		Reflection	M290			Enlargement by a positive scale factor (Year 9 Term 3)	U519
Angles	Finding unknown angles	Angles in quadrilaterals	M679	Angles on a line and about a point	M818		
		Combining angle facts	M319	Vertically opposite angles	M163		
		Angles on parallel lines	M606	Angles in triangles	M351		
		Using quadrilateral properties to find angles	M393				
		Angles in polygons	M653				
Statistical diagrams	Drawing and interpreting statistical diagrams	Drawing pie charts	M574	Drawing angles	M331	Plotting scatter graphs (Year 9 Term 3)	U199
		Interpreting pie charts	M165	Angles on a line and about a point	M818	Interpreting scatter graphs (Year 9 Term 3)	U277
		Drawing line graphs	M140	Fractions of amounts without a calculator	M695		
		Interpreting line graphs	M183	Averages and range	M328, M934,		
		Drawing stem-and-leaf diagrams	M648				
		Interpreting stem-and-leaf diagrams	M210				
Finding averages from diagrams	U854						
Inequalities	Linear inequalities	Reading and drawing linear inequalities on number lines	M384	Using number lines	M763		
		Solving single inequalities	M118	Solving equations with one step	M707		
				Mixed problems: solving equations with two or more steps	M509		
Brackets	Double brackets	Expanding double brackets	M960	Expanding single brackets and simplifying expressions	M792	Factorising quadratic equations of the form x^2+bx+c (Year 9 Term 1)	U178
Algebraic fractions	Fractions review	Calculating with fractions	M645	Adding and subtracting fractions	M835		
		Calculating with mixed numbers	M619	Adding and subtracting mixed numbers	M931		
				Multiplying fractions	M157		
				Multiplying with mixed numbers	M197		
		Dividing fractions	M110				
		Dividing with mixed numbers	M265				
Algebraic fractions	Algebraic fractions	Simplifying algebraic fractions by factorising	M754	Calculating with fractions	M645		
		Adding and subtracting algebraic fractions	M336	Simplifying algebraic fractions by cancelling common factors	M568		
				Factorising into one bracket	M100		
Recurring decimals	Fractions and recurring decimals	Using recurring decimal notation	M701	Using a written method to divide by integers to get a decimal answer	M262	Converting recurring decimals to fractions (Year 10H Term 3)	U689
		Converting fractions to recurring decimals	M922	Converting between fractions, decimals and percentages	M264		