WC 2nd Sep	WC 16th Sep	WC 30th Sep	WC 7th Oct	WC 21st Oct	WC 11th Nov	WC 18th Nov (DCP)	WC 2nd Dec
Ratio and Scale	Multiplicative change	Assessments and Consolidation	Multiplying and Dividing Fractions	Working in the Cartesian plane	Assessments and Consolidation2	Representing data	Tables and Probability
Understand the meaning and representation of ratio - Understand and use ratio notation	Solve problems involving direct proportion - **Explore direct proportion graphs (H)**	End of Block Assessment Unit 1 and 2	Represent multiplication of fractions - Multiply a fraction by an integer	Work with coordinates in all four quadrants	End of Block Assessment Unit 3 and 4	Draw and interpret scatter graphs	Construct sample spaces for one or more events
Solve problems involving ratios of the form 1 : n (or n : 1) - Solve problems involving ratios of the form m : n - **Express ratios in the form 1 : n (H)**	Explore conversion graphs		Find the product of a pair of unit fractions - Find the product of a pair of any fractions	Identify and draw lines that are parallel to the axes		Understand and describe linear correlation - Draw and use line of best fit	Find probabilities from a sample space
Divide in a given ratio	Convert between currencies		Understand and use the reciprocal - Divide an integer by a fraction - Divide a fraction by a unit fraction	Consolidate lesson		Identify non-linear relationships - Identify different types of data	Find probabilities from two-way tables
Express ratios in their simplest integer form - Compare ratios and fractions	Explore relationships between similar shapes - Understand scale factors as multiplicative representations		Divide any pair of fractions	**Half Term**		Read and interpret ungrouped frequency tables - Read and interpret grouped frequency tables	Find probabilities from Venn diagrams
Understand gradient as a ratio (H)	Draw and interpret scale diagrams		Multiply and divide improper and mixed fractions	Recognise and use the line y=x - Recognise and use lines of the form y=kx - **Explore the gradient of the line y=kx (H)**		Represent grouped discrete data - Represent continuous data grouped into equal classes	Use the product rule for finding the total number of possible outcomes
	Interpret maps using scale factors and ratios		Multiply and divide algebraic fractions	Link y=kx to direct proportion problems		Construct and interpret two-way tables	**End of Block Assessment Unit 5 and 6 (Self-Assessment)**
				Recognise and use lines of the form y=x+a			
				Explore graphs with negative gradient (y=-kx, y=a-x, x+y=a) *(Carry on next week)*			

WC 16th Dec	Christmas	WC 6th Jan	WC 27th Jan	WC 3rd Feb	WC 10th Feb	WC 24th Feb	WC 17th Mar	WC 24th Mar	Easter
Assessments and Consolidation3	Break	Brackets, equations and inequalities	Sequences	Assessments and Consolidation4	Indices	Fractions and percentages	Assessments and Consolidation5	Standard Index Form	Break.
Consolidation		Form algebraic expressions - Use directed number with algebra	Generate sequences given a rule in words	End of Block Assessment Unit 1 and 2	Adding and subtracting expressions with indices	Convert fluently between key fractions decimals and percentages	End of Block Assessment Unit 3 and 4	Investigate positive powers of 10 - Work with numbers greater than 1 in standard form	
Christmas Activities		Multiply out a single bracket - Expand multiple single brackets and simplify	Generate sequences given a simple algebraic rule		Simplifying algebraic expressions by multiplying indices - Simplifying algebraic expressions by dividing indices	Calculate key fractions, decimals and percentages of an amount without a calculator		Investigate negative powers of 10 - Work with numbers between 0 and 1 in standard form	
		Factorise into a single bracket - **Expand a pair of binomials (H)**	Generate sequences given a complex algebraic rule		Using the addition and subtraction law for indices	Calculate fractions, decimals and percentages of an amount using calculator methods		Compare and order numbers in standard form	
		Solve equations, including with brackets	**Find the rule for the nth term of a linear sequence (H)**		**Exploring powers of powers (H)**	Convert between decimals and percentages greater than 100% - Calculate percentage increase and decrease using a multiplier		Mentally calculate with numbers in standard form	
		Form and solve equations with brackets			**Half Term**	Express one number as a fraction or a percentage of another without a calculator		Add and subtract numbers in standard form	
		Understand and solve simple inequalities				Express one number as a fraction or a percentage of another using calculator methods		Multiply and divide numbers in standard form	
		Form and solve inequalities				Work with percentage change		Use a calculator to work with numbers in standard form	
		Identify and use formulae, expressions, identities and equations				Choose appropriate methods to solve percentage problems		**Understand and use negative indices (H)**	
		Solve equations and inequalities with unknowns on both sides (H)				**Find the original amount given the percentage less than 100% (H)**		**Understand and use fractional indices (H)**	
		Form and solve equations and inequalities with unknowns on both sides (H)				**Find the original amount given the percentage greater than 100% (H)**			
						Choose appropriate methods to solve complex percentage problems (H)			

WC 21st Apr	WC 12th May	WC 2nd Jun	WC 9th Jun	WC 30th Jun	WC 7th Jul	WC 14th Jul
Angles in parallel lines and polygons	Area of trapezia and circles (Assessment)	Line symmetry and reflection	Data handling cycle	Measures of location	EOY	**Number sense (Spr Term)**
Understand and use basic angle rules and notation	Calculate the area of triangles, rectangles and parallelograms	Test Review - Recognise line symmetry	Set up a statistical enquiry - Design and criticise questionnaires	Understand and use the mean, median and mode	Consolidation/Revision	Round numbers to powers of 10 and 1 significant figure
Investigate angles between parallel lines and the transversal - Identify and calculate with alternate and corresponding angles	Calculate the area of a trapezium	Reflect a shape in a horizontal or vertical line 1 (shapes touching the line) - Reflect a shape in a horizontal or vertical line 2 (shapes not touching the line)	Draw and interpret pictograms, bar charts and vertical line charts	Choose the most appropriate average - Compare distributions using averages and the range	End of Year	Round numbers to a given number of decimal places
Identify and calculate with co-interior, alternate and corresponding angles	Calculate the perimeter and area of compound shapes (1)	Reflect a shape in a diagonal line 1 (shapes touching the line) - Reflect a shape in a diagonal line 2 (shapes not touching the line)	Draw and interpret multiple bar charts	Identify outliers		Estimate the answer to a calculation
Investigate the properties of special quadrilaterals -Identify and calculate with sides and angles in special quadrilaterals - Understand and use the properties of diagonals of quadrilaterals	Calculate the area of a circle and parts of a circle without a calculator - Calculate the area of a circle and parts of a circle with a calculator		Draw and interpret pie charts	**Find the mean from an ungrouped frequency table (H)**		**Understand and use error interval notation (H)**
Understand and use the sum of exterior angles of any polygon	Calculate the perimeter and area of compound shapes (2)		Draw and interpret line graphs	**Find the mean from an grouped frequency table (H)**		
Understand and use the sum of the interior angles in any polygon	**End of Block Assessment Unit 1 and 2**		Choose the most appropriate diagram for a given set of data			
Calculate missing interior angles in regular polygons	**Half Term**		Represent and interpret grouped quantitative data			
Prove simple geometric facts (H)			Compare distributions using charts			
			Identify misleading graphs			