Mathematics Scheme of Work

Unit	Hours	Learning	Essential knowledge
Autumn 1		•	•
Numbers and the number system	6	Multiply and divide numbers with up to three decimal places by 10, 100, and 1000	Know percentage and decimal equivalents for fractions
Calculating	6	Use long division to divide numbers up to four digits by a two-digit number	with a denominator of 2, 3, 4, 5, 8 and 10
Calculating: division	6	Use simple formulae expressed in words	Know the rough equivalence between miles and kilometres
Presentation of data	6	Generate and describe linear number sequences	 Know that vertically opposite angles are equal
End of term test		Use simple ratio to compare quantities	 Know that the area of a triangle = base × height ÷ 2
Autumn 2		Write a fraction in its lowest terms by cancelling common factors	 Know that the area of a parallelogram = base × height
Measuring data	3	Add and subtract fractions and mixed numbers with different denominators	 Know that volume is measured in cubes
Visualising and constructing	6	Multiply pairs of fractions in simple cases	Know the names of parts of a circle
Investigating properties of shapes	6	Find percentages of quantities	 Know that the diameter of a circle is twice the radius
Algebraic proficiency: using formulae	3	• Solve missing angle problems involving triangles, quadrilaterals, angles at a point and angles	 Know the conventions for a 2D coordinate grid
End of term test		on a straight line	• Know that mean = sum of data ÷ number of pieces of data
Spring 1		Calculate the volume of cubes and cuboids	
Exploring fractions, decimals and percentages	9	Use coordinates in all four quadrants	
Proportional reasoning	6	Calculate and interpret the mean as an average of a set of discrete data	
Patterns	4		
End of term test			
Spring 2			
Measuring space	5		
Investigating angles	3		
Calculating fractions, decimals and percentages	12		
End of term test			
Summer			
Solving equations and inequalities	4		
Calculating space	8		
Checking, approximating and estimating	2		
Mathematical movement	6		
End of year test			