Mathematics Scheme of Work

Unit	*Hours*	*Learning*	*Essential knowledge*
Autumn 1		•	•
Numbers and the number system	8	• Identify multiples and factors of a number • Count forwards and backwards through zero • Round to one decimal place • Use columnar addition and subtraction with numbers of any size • Multiply a three- or four-digit number by a two-digit number using long multiplication • Divide numbers up to four-digits by a single-digit number using short division and interpret the remainder • Add and subtract fractions with denominators that are multiples of the same number • Write decimals as fractions • Understand that per cent relates to number of parts per hundred • Convert between adjacent metric units of measure for length, capacity and mass • Measure and draw angles • Calculate the area of rectangles • Distinguish between regular and irregular polygons	• Know the place value headings up to millions • Recall primes to 19 • Know the first 12 square numbers • Know the Roman numerals I, V, X, L, C, D, M • Know the % symbol • Know percentage and decimal equivalents for $^1/_2$, $^1/_4$, $^1/_5$, $^2/_5$, $^4/_5$ • Know rough conversions between metric and Imperial units • Know that angles are measured in degrees • Know angles in one whole turn total 360° • Know angles in half a turn total 180° • Know that area of a rectangle = length × width
Counting and comparing	8		
Calculating: addition and subtraction	8		
End of term test			
Autumn 2			
Calculating: multiplication and division	12		
Presentation of data	8		
Investigating properties of shapes	4		
End of term test			
Spring 1			
Visualising and constructing	4		
Exploring time	4		
Exploring fractions, decimals and percentages	12		
End of term test			
Spring 2			
Patterns	4		
Measuring space	8		
Investigating angles	8		
End of term test			
Summer			
Calculating fractions, decimals and percentages	12		
Calculating space	8		
Checking, approximating and estimating	4		
Mathematical movement	8		
End of year test			