

Year 6 MATHS	Y6 Low Emerging	Y6 High Emerging	Y6 Low Embedding	Y6 High Embedding	Y6 Low Expected	Y6 High Expected	Y6 Low Exceeding Y7 Low Emerging	Y6 High Exceeding Y7 High Emerging	
STEP	32	33	34	35	36	37	38	39	
Ticks required	20	41	61	81	122	130	138	145	
✓ Total 153 with 24 Key Objectives		The three divisions within each statement are an indication of the depth of pupil understanding not the number of times observed					All Key objectives have to be secure in order to be exceeding		

		Mathematics - Year 6	Beginning	Progressing	Secure
Number: Number System and fractions and decimals	I can read, write, order and compare numbers up to 10,000,000 and determine the value of each digit				
	I can round any number to a required degree of accuracy				
	I can use negative numbers in context, and calculate intervals across 0				
	I can solve number and practical problems that involve all of the above				
	I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination				
	I can compare and order fractions, including fractions >1				
	I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions				
	I can multiply simple pairs of proper fractions, writing the answer in its simplest form (for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$)				
	I can divide proper fractions by whole numbers (for example $\frac{1}{2} \div 2 = \frac{1}{4}$)				
	I can associate a fraction with division and calculate decimal equivalents (for example 0.375) for a simple fraction (for example $\frac{3}{8}$)				
Calculating: addition, subtraction, multiplication and division	I can identify the value of each digit in numbers given to 3 decimal places				
	I can multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places				
	I can recall and use equivalences between simple fractions, decimals and percentages, including in different contexts				
	I can perform mental calculations, including with mixed operations and large numbers				
	I can use my knowledge of the order of operations to carry out calculations involving the 4 operations				
	I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why				
	I can use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy				
	I can multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication				
	I can use written division methods in cases where the answer has up to 2 decimal places				
	I can divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context				
Geometry: Properties, position and direction	I can divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context				
	I can solve problems which require answers to be rounded to specified degrees of accuracy				
	I can perform mental calculations, including with mixed operations and large numbers				
	I can identify common factors, common multiples and prime numbers				
	I can multiply one-digit numbers with up to 2 decimal places by whole numbers				
	I can solve problems involving multiplication and division				
	I can draw 2-D shapes using given dimensions and angles				
	I can recognise, describe and build 3-D shapes, including making nets				
	I can compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons				
	I can illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius				
Measurement	I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles				
	I can describe positions on the full coordinate grid (all 4 quadrants)				
	I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes				
	I can use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places				
	I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate				
	I can convert between miles and kilometres				
St	I can recognise that shapes with the same areas can have different perimeters and vice versa				
	I can recognise when it is possible to use formulae for area and volume of shapes				
Algebra	I can calculate the area of parallelograms and triangles				
	I can calculate, estimate and compare volumes of cubes and cuboids using standard units, including cubic centimetres (cm ³) and cubic metres (m ³), and extending to other units (for example, mm ³ and km ³)				
	I can interpret and construct pie charts and line graphs and use these to solve problems				
	I can calculate and interpret the mean as an average				
Ratio and Proportion	I can use simple formulae				
	I can express missing number problems algebraically				
	I can find pairs of numbers that satisfy an equation with 2 unknowns				
	I can enumerate possibilities of combinations of 2 variables				
Ratio and Proportion	I can generate and describe linear number sequences				
	I can solve problems involving the relative size of 2 quantities where missing values can be found using integer multiplication and division facts				
	I can solve problems involving similar shapes where the scale factor is known or can be found				
	I can solve problems involving the calculation of percentages (for example, of measures such as 15% of 360 and the use of percentages for comparison)				
	I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples				