Year Five Mathematics Curriculum KPIs 2025

Autumn 1	Number and Place Value	Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000 Read Roman numerals to 1000 (M) and recognise years written in Roman numerals
	Addition and Subtraction	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy Can estimate the answer up to 4 digits by rounding Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
Autumn 2	Multiplication and Division	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers Establish whether a number up to 100 is prime and recall prime numbers up to 19

		Multiply numbers up to 4 digits by a one or two-digit number using a formal written method, including long multiplication for two-digit numbers Multiply and divide numbers mentally, drawing upon known facts Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes Solve problems involving addition, subtraction, multiplication, division and a combination of these, including understanding the meaning of the equals sign Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple ratio
Spring 1	Fractions, Decimals and Percentages	Compare and order fractions whose denominators are all multiples of the same number Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths Identify, name and write equivalent fractions

		Recognise mixed numbers and improper fractions and convert from one form to the other. Write mathematical statements > 1 as a mixed number Add and subtract fractions with the same denominator and denominators that are multiples of the same number Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams Can multiply together fractions with common denominators
Spring 2	Fractions, Decimals and Percentages	Read and write decimal numbers as fractions Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents Round decimals with two decimal places to the nearest whole number and to one decimal place Read, write, order and compare numbers with up to three decimal places Recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred'. Write percentages as a fraction with denominator 100 and as a decimal Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5 and 4/5 and those fractions with a Denominator of a multiple of 10 or 25
	Statistics	Solve comparison, sum and difference problems using information presented in a line graph Complete, read and interpret information in tables, including timetables

Summer 1	Measures	Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) Can use their knowledge of place value and multiplication and division by 10, 100 and 1000 to convert between standard units
	Properties of Shape	Identify 3D shapes, including cubes and other cuboids, from 2D representations Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles Draw given angles, and measure them in degrees (°) Identify, angles at a point and one whole turn (total 360°), angles at a point on a straight line and 1/2 a turn (total 180°) and other multiples of 90° Use the properties of rectangles to deduce related facts and find missing lengths and angles Distinguish between regular and irregular polygons based on reasoning about equal sides and angles
	Position and Direction	Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed
Summer 2 (Ongoing targets included here. Once MNP lessons finished, time used to consolidate, secure and revise learning)	Number and Place Value	Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000
	Addition and Subtraction	Add and subtract numbers mentally with increasingly large numbers
	Measures	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres

		Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water] Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling