

Maths LTP – Overview
Year 5
2026-2027

	First Half term	Second Half Term
Autumn	Number: Place value (6 weeks) - Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 - Count forwards and backwards in decimal steps - Read, write, order, and compare numbers to at least 1 000 000 and determine the value of each digit - Read, write, order, and compare numbers with up to 3 decimal places - Identify the value of each digit to three decimal places - Identify represent and estimate numbers using the number line - Find 0.01, 0.1, 1, 10, 100, 100 and other powers of 10 more or less than a given number - Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 - Round decimals with two decimal places to the nearest whole number and to one decimal place - Multiply/divide whole numbers and decimals by 10, 100 and 1000 - Interpret negative numbers in context, count on and back with positive and negative whole numbers, including through zero - Describe and extend number sequences including those with multiplication/division steps and where the step size is a decimal - Read Roman numerals to 1000 (M); recognise years written as such - Continue to order temperatures including those below 0°C - Convert between different units of metric measure - Solve number and practical problems that involve all of the above	Number: Addition and Subtraction (4 weeks) - Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method) - Select a mental strategy appropriate for the numbers involved in the calculation - Recall and use addition and subtraction facts for 1 and 10 (with decimal numbers to one decimal place) - Derive and use addition and subtraction facts for 1 (with decimal numbers to two decimal places) - Add and subtract numbers mentally with increasingly large numbers and decimals to two decimal places - Add and subtract whole numbers with more than 4 digits and decimals with two decimal places, 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 - Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why - Solve addition and subtraction problems involving missing numbers Number: Multiplication and Division. (Including Factors multiples and primes) (2 weeks) - Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method) - 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

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		• Establish whether a number up to 100 is prime and recall prime numbers up to 19 • Recognise and use square (2) and cube (3) numbers, and notation • Use partitioning to double or halve any number, including decimals to two decimal places • Multiply and divide numbers mentally drawing upon known facts • Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares, and cubes • 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 • 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 • Use estimation/inverse to check answers to calculations; determine, in the context of a problem, an appropriate degree of accuracy • Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equal's sign • Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates
Spring	Number: Fractions (6 weeks) • Recognise mixed numbers and improper fractions and convert from one form to the other • Read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$) • Count on and back in mixed number steps such as $1 \frac{1}{2}$ • Compare and order fractions whose denominators are all multiples of the same number (including on a number line)	Number: Percentages (6 weeks) • Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred,' and write percentages as a fraction with denominator 100, and as a decimal • Can find 1% and 10 % • Solve problems where the whole is not known • Solve problems involving fractions and decimals to three places • Solve problems which require knowing percentage and decimal

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	- Identify, name, and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths - Recognise and use thousandths and relate them to tenths, hundredths, and decimal equivalents - Add and subtract fractions with denominators that are the same and that are multiples of the same number (using diagrams) • Write statements > 1 as a mixed number (e.g. $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$) - Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	equivalents of $1/2$, $1/4$, $1/5$, $2/5$, $4/5$ and fractions with a denominator of a multiple of 10 or 25
Summer	Statistics: Graphs (3 weeks) - Complete and interpret information in a variety of sorting diagrams (including those used to sort properties of numbers and shapes) - Complete, read and interpret information in tables and timetables - Solve comparison, sum, and difference problems using information presented in all types of graphs including a line graph - Calculate and interpret the mode, median and range Geometry: Angles Position and direction. (3 weeks) - Distinguish between regular and irregular polygons based on reasoning about equal sides and angles - Use the properties of rectangles to deduce related facts and find missing lengths and angles - Identify 3-D shapes from 2-D representations - Know angles are measured in degrees: estimate and compare acute, obtuse, and reflex angles - Draw given angles, and measure them in degrees ($^{\circ}$) - Identify: - angles at a point and one whole turn (total 360°) - angles at a point on a straight line and half a turn (total 180°) - other multiples of 90°	Measure: Area and Perimeter (3 weeks) - Use, read and write standard units of length and mass - Estimate (and calculate) volume (e.g., using 1 cm^3 blocks to build cuboids (including cubes)) and capacity (e.g. using water) - Understand the difference between liquid volume and solid volume - Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds, and pints - Measure/calculate the perimeter of composite rectilinear shapes - Calculate and compare the area of rectangle, use standard units square centimetres (cm^2) and square metres (m^2) and estimate the area of irregular shapes - Continue to read, write, and convert time between analogue and digital 12 and 24-hour clocks - Solve problems involving converting between units of time - Complete a simple symmetric figure with respect to a specific line of symmetry Continue to identify horizontal and vertical lines and pairs of perpendicular and parallel lines. Geometry: Co-ordinates, and translations - Describe positions on the first quadrant of a coordinate grid

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		• Plot specified points and complete shapes • 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
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