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Mathematics Long Term Plan 2024-25

Year 5

Term	Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Shape	Position and Direction	Statisics
Autumn	2 weeks	2 weeks	2 weeks	2 weeks	2 weeks	1 week		1 week
Spring	2 weeks	2 weeks	2 weeks	2 weeks	2 weeks	2 weeks		1 week
Summer	1 week		2 weeks	2 weeks	2 weeks	2 weeks	1 week	

Term	Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Shape	Position and Direction	Statistics
Autumn	Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit Count forwards and backwards in steps of	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Add and subtract	Identify multiples of factors, including finding all factor pairs of a number, and common factors or two numbers Know and use the vocabulary of prime numbers, prime	Compare and order fractions whose denominators are all multiples of the same number Identify, name and write equivalent fractions of a given fraction,	Convert between different units of metric measure (for example, Kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram;	Identify 3-D shapes, including cubes and other cuboids, from 2-D representations		Solve comparison, sum and difference problems using information presented in a line graph

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	powers of 10 for any given number up to 1 000 000 Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000, 100 000	numbers mentally with increasingly large numbers	factors and composite (non-prime) numbers Establish whether a number up to 100 is prima and recall prime numbers up to 19	represented visually, including tenths and hundredths Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number [for example, $\frac{2}{5}+\frac{4}{5}=\frac{6}{5}=1\frac{1}{5}$] Add and subtract fractions with the same denominator	litre and millilitre) Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints			

				and denominators that are multiples of the same numbers Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams				
Spring	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers,	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy Solve addition and subtraction	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	Read and write decimal numbers as fractions [for example 0.71 = $\frac{71}{100}$] Recognise and use thousandths and relate	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Calculate and compare the	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles Draw given angles and		Complete, read and interpret information in tables, including timetables

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	including through zero Solve number problems and practical problems that involve all of the above	multi step problems in contexts, deciding which operations and methods to use and why	Multiply and divide 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	them to tenths, hundredths and decimal equivalents Round decimals with two decimals to the nearest whole number and to one decimal place Read, write, order and compare numbers with up to three decimal places Solve problems involving number up to three decimal places	area of rectangles (including squares) and including using standard units, square centimetres (cm^2) and square metres (m^2) and estimate the area of irregular shapes Estimate volume [for example, using 1 cm^3 blocks to build cuboids (including cubes)] and capacity [for example, using water]	measure them in degrees (°) Identify angles at a point and one whole turn (total 360°) Angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) Other multiples of 90°		

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Summer	Read Roman numerals to 1000 (M) and recognise years written in Roman numerals		Recognise and use square numbers and cube numbers, and the notation for squared (^{2}) and cubed (^{3}) Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes Solve problems involving addition, subtraction, multiplication and division and a combination of these, including	Recognise the percent (%) symbol and understand that percent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{2}{5}, \frac{4}{5}$ and those fractions with a denominator	Solve problems involving converting between units of time Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling	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	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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			understanding the meaning of the equals sign Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	of a multiple of 10 or 25				