YEAR 5 – Term 1

EVERY DAY: Practise and develop oral and mental skills (e.g. counting, mental strategies, rapid recall of + and - facts)			
Count on in 10s, 100s and 1000s from any 3 digit number Recall 2x, 5x, 4x and 8x times tables Rapid recall of decimal addition and subtraction facts to 10		Add and subtract tenths and hundredths Convert measures Count in fraction steps	
Days	Topic	Objectives: children will be taught to	
10	Number and Place Value	Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 Solve number problems and practical problems that involve all of the above	
	Fractions, Decimals and Percentages	Read and write decimal numbers as fractions [for example, 0.71 = $\frac{71}{100}$] 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	
	Multiplication and Division	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	
7	Addition and Subtraction	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Add and subtract numbers mentally with increasingly large numbers 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.	
	Fractions, Decimals and Percentages	Solve problems involving numbers up to three decimal places	
8	Multiplication and Division	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 Solve problems involving addition, subtraction, multiplication and 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 rates.	

5	Measurement	Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.	

YEAR 5 – Term 2

EVERY DAY: Practise and develop oral and mental skills (e.g. counting, mental strategies, rapid recall of + and - facts)			
Add and subtract two 2 digit or decimal numbers using number facts and bridging Count in tenths and hundredths Find factor pairs		Recall 3x, 6x and 12x multiplication and division facts Order decimal numbers Doubling and halving 2 and 3 digit numbers and decimals	
Days	Topic	Objectives: children will be taught to	
5	Number and Place Value Fractions, Decimals and Percentages	Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. Read, write, order and compare numbers with up to three decimal places	
5	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 Recognise and use square numbers and cube numbers, and the notation for squared (^{2}) and cubed (^{3})	
10	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 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 and denominators that are multiples of the same number	
5	Fractions, Decimals and Percentages	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 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 of a multiple of 10 or 25.	
5	Geometry Properties of Shape Position and Direction	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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YEAR 5 – Term 3

EVERY DAY: Practise and develop oral and mental skills (e.g. counting, mental strategies, rapid recall of + and - facts)			
Hours, minutes, seconds, days, weeks , months, relationship Recall 3x, 4x, 6x, 8x and 12x multiplication and division facts Order numbers beyond 1000		Count on to find the difference including decimals Recall decimal pairs that make 1 Revisit Roman numerals	
Days	Topic	Objectives: children will be taught to	
5	Number and Place Value Fractions ,Decimals and Percentages	Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 Solve number problems and practical problems that involve all of the above Read and write decimal numbers as fractions [for example, 0.71 = $\frac{71}{100}$] 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 Solve problems involving number up to three decimal places	
5	Addition and Subtraction	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Add and subtract numbers mentally with increasingly large numbers 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.	
5	Multiplication and Division	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	
5	Measurement	Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints 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 (cm^2) and square metres (m^2) and estimate the area of irregular shapes	

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5	Measurement Geometry – Properties of Shape	Estimate volume [for example, using 1 cm^3 blocks to build cuboids (including cubes)] and capacity [for example, using water] Identify 3-D shapes, including cubes and other cuboids, from 2-D representations	
3	Statistics	Solve comparison, sum and difference problems using information presented in a line graph	Link to other curriculum areas

YEAR 5 – Term 4

EVERY DAY: Practise and develop oral and mental skills (e.g. counting, mental strategies, rapid recall of + and - facts)			
Multiply and divide by 10, 100 or 1000 Recall 6x, 7x, 8x and 9x multiplication and division facts Convert measures		Order numbers with 2 or 3 decimal places Use near doubles to add and subtract, including decimals Use near multiples of 10 and 100 to add and subtract, or near multiples of 1 for decimals	
Days	Topic	Objectives: children will be taught to	
10	Multiplication and Division	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	
	Measurement	Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.	
	Fractions, Decimals and Percentages	Solve problems involving number up to three decimal places	
5	Measurement Statistics	Solve problems involving converting between units of time Complete, read and interpret information in tables, including timetables.	
5	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 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 and denominators that are multiples of the same number Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	
5	Geometry Properties of Shape	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles Draw given angles, and measure them in degrees (^{o}) identify: angles at a point and one whole turn (total 360^o) angles at a point on a straight line and half a turn (total 180^o) other multiples of 90^o	

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5	Geometry Position and Direction	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.	

YEAR 5 – Term 5

EVERY DAY: Practise and develop oral and mental skills (e.g. counting, mental strategies, rapid recall of + and - facts)			
Doubling and halving decimals Partition numbers to multiply and divide mentally Recall all multiplication and division facts and use place value		Use rounding to nearest whole number to add and subtract decimals Find common multiples and factors Recall prime numbers, square numbers	
Days	Topic	Objectives: children will be taught to	
7	Number and Place Value	Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 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 Solve number problems and practical problems that involve all of the above	
	Fractions, Decimals and Percentages	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 Solve problems involving number up to three decimal places	
7	Addition and Subtraction	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Add and subtract numbers mentally with increasingly large numbers 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.	
	Measurement	Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	
3	Statistics	Solve comparison, sum and difference problems using information presented in a line graph	
8	Measurement	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 (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]	

5	Fractions, Decimals and Percentages	Read and write decimal numbers as fractions [for example, 0.71 = $\frac{71}{100}$] 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 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 of a multiple of 10 or 25.	

YEAR 5 – Term 6

EVERY DAY: Practise and develop oral and mental skills (e.g. counting, mental strategies, rapid recall of + and - facts)			
Count through 0 to include negative numbers Order fractions and decimals Equivalent fractions		Recall multiplication and division facts up to 12 x 12, including using place value Multiply and divide by 10, 100 or 1000 Use AfL for other skills	
Days	Topic	Objectives: children will be taught to	
10	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 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 multiplication and division, including scaling by simple fractions and problems involving simple rates.	
7	Measurement Statistics	Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints Solve problems involving converting between units of time Complete, read and interpret information in tables, including timetables.	
6	Multiplication and Division Measurement Fractions, Decimals and Percentages	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 Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling. Solve problems involving number up to three decimal places	

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7	Fractions, Decimals and Percentages	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 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 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 of a multiple of 10 or 25.	Solve problems