

Mathematics Long Term Overview for Year Group: 5

AUTUMN TERM 1		
Wk	BLOCK	SMALL STEPS
1	BLOCK 1: PLACE VALUE	Solve number problems and practical problems involving place value.
2	BLOCK 1: 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, 10000 and 100000
3	BLOCK 1: PLACE VALUE	Count forwards and backwards in steps of powers of 10 for a ny given number up to 1,000,000 Interpret negative numbers in context, count forwards and backwards with positive and negative numbers including through zero. Read Roman numerals to M and recognise years written in roman numerals.
4	BLOCK 2 ADDITION AND SUBTRACTION	Add and subtract numbers mentally with increasingly large numbers. Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).
5	BLOCK 2 ADDITION AND SUBTRACTION	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. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
6	BLOCK 3 STATISTICS	Solve comparison, sum ad difference problems using information presented in a line graph.
7	BLOCK 3 STATISTICS	Complete, read and interpret information in tables and timetables.

AUTUMN TERM 2		
Wk	BLOCK	SMALL STEPS
1	BLOCK 4 MULTIPLICATION AND DIVISION	Multiply and divide numbers mentally drawing upon known facts. Multiply and divide whole numbers by 10, 100 and 1000. Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
2	BLOCK 4 MULTIPLICATION AND DIVISION	Recognise and use square numbers and cube numbers and the notati on for squared and cubed Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. 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
3	BLOCK 5 PERIMETER AND AREA	Measure and calculate the perimeter of composite rectilinear shapes in cm and m.
4	BLOCK 5 PERIMETER AND AREA	Calculate and compare the area of rectangles (including squares), and including using standard units. Estimate the area of irregular shapes
5	CONSOLIDATION	

6	Consolidation	
7	Consolidation	

SPRING TERM 1		
Wk	BLOCK	SMALL STEPS
1 & 2	BLOCK 6 MULTIPLICATION AND DIVISION	Multiply and divide numbers mentally drawing upon known facts. Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for 2 digit numbers.
3	BLOCK 6 MULTIPLICATION AND DIVISION	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.
4	BLOCK 6 MULTIPLICATION AND DIVISION	Solve problems involving all four operations, including understanding the use of the = sign.
5	BLOCK 7 FRACTIONS	Compare and order fractions whose denominators are multiples of the same number. Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths.
6	BLOCK 7 FRACTIONS	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 $1\frac{1}{2}$]
7	BLOCK 7 FRACTIONS	Add and subtract fractions with the same denominator and denominators that are multiples of the same number.

SPRING TERM 2		
Wk	BLOCK	SMALL STEPS
1	BLOCK 7 FRACTIONS	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Find fractions of amounts
2	BLOCK 7 FRACTIONS	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Find fractions of amounts
3	BLOCK 7 FRACTIONS	Read and write decimal numbers as fractions [for example $0.71 = \frac{71}{100}$]
3	BLOCK 7 FRACTIONS	Convert fractions and decimals. Find fractions of amounts Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.
4	BLOCK 8 DECIMALS AND PERCENTAGES	Number: Decimals Read, write, order and compare numbers with up to three decimal places. 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.
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SUMMER TERM 1		
Wk	BLOCK	SMALL STEPS
1	BLOCK 8 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.
2	BLOCK 8 DECIMALS AND PERCENTAGES	Add and subtract decimals up to 3DP
3	BLOCK 10 PROPERTIES OF SHAPES AND ANGLES	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, angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) other multiples of 90°
4	BLOCK 10 PROPERTIES OF SHAPES AND ANGLES	Identify 3D shapes, including cubes and other cuboids, from 2D representations. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles
5	BLOCK 11 GEOMETRY 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
6	Consolidation	

SUMMER TERM 2		
Wk	BLOCK	SMALL STEPS
1	BLOCK 9 DECIMALS	Solve problems involving number up to three decimal places. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
2	BLOCK 9 DECIMALS	Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.
3	BLOCK 12 MEASUREMENT CONVERTING BETWEEN UNITS	Convert between different units of metric measure (for example, km and m; cm and m; cm and mm; g and kg; l and ml) 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
5	BLOCK 13 MEASUREMENT VOLUME	Estimate volume [for example using 1cm^3 blocks to build cuboids (including cubes)] and capacity [for example, using water] Use all four operations to solve problems involving measure.
6	Consolidation	