Year 5 Maths Medium Term Plan

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Place Value	**Multiplication & Division**	**Multiplication & Division**	**Decimals & Percentages**	**Decimals**	**Properties of Shape**
Read Roman numerals to 1000 (M) and recognise years written in Roman numerals	Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers	Multiply numbers up to 4 digits by a one-digit number using a formal written method	Recall decimal fraction equivalents for a half, quarter, fifth and tenth, and for multiples of proper fractions	Read and write numbers with up to three decimal places	Know that angles are measured in degrees
Read and write numbers to 1 000 000	Establish whether a number up to 100 is prime and recall prime numbers up to 19	Multiply numbers up to 4 digits by a two-digit number using long multiplication	Compose and decompose numbers with up to 3 decimal places using standard and nonstandard partitioning	Recognise the place value of each digit in numbers with up to 2 decimal places	Estimate acute, obtuse and reflex angles
Determine the value of each digit in numbers to 1 000 000	Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	Divide numbers up to 4 digits by a one-digit number using the formal written method of short division		Add and subtract numbers with up to 3 decimal places	Compare acute, obtuse and reflex angles
Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	Secure fluency in multiplication table facts, and corresponding division facts, through continued practice.	Interpret remainders appropriately for the context	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	Multiply decimal numbers by 10, 100 and 1000	Draw given angles, and measure them in degrees (o)
Compose and decompose numbers to 1 000 000 using standard and nonstandard partitioning	Multiply and divide whole numbers by 10, 100 and 1000, understand this is equivalent to making a number 10 or 100 times the size, or 1 tenth or 1 hundredth times the size.	Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign		Divide numbers involving decimals by 10, 100 and 1000	Identify angles at a point and one whole turn (total 360o)
Compare and order numbers to 1 000 000				Reason about the location of any number with up to 2 decimals places in the linear number system, including identifying the previous and next multiple of 1 and 0.1	Identify angles at a point on a straight line and 1/2 a turn (total 180o)
Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000	Multiply and divide numbers mentally drawing upon known facts	**Fractions** Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25	Round decimals with two decimal places to the nearest whole number	Identify other multiples of 90o
	Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth).			Round decimals with two decimal places to one decimal place.	Use the properties of rectangles to deduce related facts and find missing lengths and angles
Solve number problems and practical problems that involve all of the above		Find non-unit fractions of quantities	Read and write decimal numbers as fractions [for example, 0.71 = 71/100]	Compare and order numbers with up to three decimal places	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles

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Addition & Subtraction

Add and subtract numbers mentally with increasingly large numbers

Add and subtract whole numbers with more than 4 digits using columnar methods

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 methods to use and why

Multiplication & Division

Identify multiples
Identify factors

Find all factors pairs of a number and common factors of two numbers
Express a given number as a product of 2 or 3 factors.

Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes

Fractions

Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths

Add and subtract fractions with denominators that are multiples of the same number

Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers.

Reason about the location of mixed numbers in the linear number system.

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, 2/5 + 4/5 = 6/5 = 1 1/5]

Compare and order fractions whose denominators are all multiples of the same number

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Decimals & Percentages

Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1.

Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01.

Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01.

Perimeter & Area

Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres

Calculate the area of rectangles (including squares) and including standard units, square centimetres (cm2) and square metres (m2)

Compare the area of rectangles (including squares)

Estimate the area of irregular shapes

Statistics

Solve comparison, sum and difference problems using information presented in a line graph

Complete, read and interpret information in tables, including timetables

Application of Multiplication & Division Strategies

Solve problems involving numbers up to three decimal places

Negative Numbers

Interpret negative numbers in context

Count forwards and backwards with positive and negative whole numbers, including through zero

Converting Units

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

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

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Identify 3-D shapes, including cubes and other cuboids, from 2-D representations

Position & Direction

Identify and describe the position of a shape following a translation, using the appropriate language, and know that the shape has not changed

Represent the position of a shape following a translation, using the appropriate language, and know that the shape has not changed

Identify and describe the position of a shape following a reflection, using the appropriate language, and know that the shape has not changed

Represent the position of a shape following a reflection, using the appropriate language, and know that the shape has not changed

Volume

Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]

			I can apply my knowledge of multiplication and division methods to solve more complex problems		