

Medium Term Plan KS2 – Maths Year 5 – Autumn Term

Block 1 - Place Value	Block 2 – Addition & Subtraction	Block 3 - Multiplication & Division A	Block 4 – Fractions A
<p>Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals</p> <p>Read, write, order and compare numbers to at least 1,000,000 and determine the value each digit</p> <p>Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000</p> <p>Solve number problems and practical problems involving the above</p> <p>Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000</p> <p>Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000</p>	<p>Add and subtract numbers mentally with increasingly large numbers</p> <p>Add and subtract whole numbers with more than four digits, including using formal written methods (columnar addition and subtraction)</p> <p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p>Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000</p> <p>Add and subtract numbers mentally with increasingly large numbers</p> <p>Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</p>	<p>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers</p> <p>Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes</p> <p>Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers</p> <p>Establish whether a number up to 100 is prime and recall prime numbers up to 19</p> <p>Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)</p> <p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000</p> <p>Multiply and divide numbers mentally, drawing upon known facts</p>	<p>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</p> <p>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number</p> <p>Compare and order fractions whose denominators are all multiples of the same number</p> <p>Add and subtract fractions with the same denominator, and denominators that are multiples of the same number</p>

Medium Term Plan KS2 – Maths Year 5 – Spring Term

Block 1 – Multiplication & Division B	Block 2 – Fractions B	Block 3 - Decimals and Percentages	Block 4 – Perimeter & Area	Block 5 - Statistics
Multiply numbers up to four	Multiply proper fractions and	Read, write, order and compare	Measure and calculate the	Solve comparison, sum and

<p>digits by a 1- or 2-digit number using a formal written method, including long multiplication for 2-digit numbers</p> <p>Divide up to four digits by a 1-digit number using the formal written method of short division and interpret remainders appropriately for the context</p> <p>Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes</p>	<p>mixed numbers by whole numbers, supported by materials and diagrams</p> <p>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number (Y4)</p>	<p>numbers with up to 3 decimal places</p> <p>Read and write decimal numbers as fractions</p> <p>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</p> <p>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</p> <p>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</p> <p>Read, write, order and compare numbers with up to 3 decimal places</p> <p>Solve problems involving numbers up to 3 decimal places</p> <p>Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place</p> <p>Recognise the per cent symbol (%) and understand that per cent relates to “number of parts per 100”, and write percentages as a fraction with denominator 100, and as a decimal fraction</p> <p>Solve problems which require knowing percentage and decimal</p>	<p>perimeter of composite rectilinear shapes in centimetres and metres</p> <p>Calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm²) and square metres (m²), and estimate the area of irregular shapes</p>	<p>difference problems using information presented in a line graph</p> <p>Complete, read and interpret information in tables, including timetables</p>
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Medium Term Plan KS2 – Maths Year 5 – Summer Term

Block 1 – Shape	Block 2 - Position & Direction	Block 3 - Decimals	Block 4 – Negative Numbers	Block 5 – Converting Units	Block 6 – Volume
<p>Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles</p> <p>Draw given angles, and measure them in degrees (°)</p> <p>Identify angles at a point and one whole turn total (360°)</p> <p>Identify: angles at a point and 1 whole turn (total 360°); angles at a point on a straight line and half a turn (total 180°)</p> <p>Use the properties of rectangles to deduce related facts and find missing lengths and angles</p> <p>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles</p> <p>Identify 3-D shapes, including cubes and other cuboids, from 2-D</p>	<p>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</p>	<p>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</p> <p>Solve problems involving number up to 3 decimal places</p> <p>Read, write, order and compare numbers with up to 3 decimal places</p> <p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000</p>	<p>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero</p>	<p>Convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre]</p> <p>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints</p> <p>Solve problems involving converting between units of time</p>	<p>Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity</p> <p>Estimate volume [for example, using 1 cm blocks to build cuboids (including cubes)] and capacity</p> <p>Estimate volume and capacity [for example, using water]</p>

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