

<b>Maths Year 5 Framework</b>		
<b>Autumn</b>	<b>Spring</b>	<b>Summer</b>
<p><b>Number: Place Value</b> I can read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.</p> <p>I can count forwards and backwards in steps of powers of 10 for any given number up to 1,000,000.</p> <p>I can interpret negative numbers in context and can count forwards and backwards with positive and negative numbers through zero.</p> <p>I can round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.</p> <p>Read Roman numerals up to 1,000 and recognise different years written in Roman numerals.</p> <p><b>Number: Addition and Subtraction</b> I can add and subtract numbers with more than four digits, using formal written methods of columnar addition and subtraction.</p> <p>I can use rounding to check the answer to a calculation and determine, in the context of the problem, levels of accuracy.</p>	<p><b>Number: Multiplication and Division</b> I can multiply and divide numbers mentally drawing upon known facts.</p> <p>I can multiply numbers up to a four-digit by a one or two-digit number using a more formal written method, including long multiplication for two-digit numbers.</p> <p>I can divide numbers up to four digits by a one-digit number using the formal written method of short division and interpret remainders appropriately.</p> <p>I can solve problems involving addition, subtraction, multiplication and division and a combination of these including understanding the meaning of the equals sign.</p> <p><b>Number: Fractions</b> I can compare and order fractions whose denominators are multiples of the same number.</p> <p>I can identify, name and write equivalent fractions of a given fraction, represented visually (including tenths and hundredths).</p> <p>I can recognise mixed numbers and improper fractions and can convert from one form to the other and write mathematical statements <math>&gt;1</math> as a mixed number (e.g. <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1 \frac{1}{5}</math>).</p>	<p><b>Number: Decimals</b> I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.</p> <p>I can solve problems involving number up to three decimal places.</p> <p>I can use all four number operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation, including scaling.</p> <p><b>Geometry: Properties of Shapes</b> I can identify 3D shapes, including cubes and other cuboids, from 2D representations.</p> <p>I can use the properties of rectangles to deduce related facts and to find missing lengths and angles.</p> <p>I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</p> <p>I know angles are measured in degrees and can estimate and compare acute, obtuse and reflex angles.</p> <p>I can draw given angles and measure them in degrees.</p>

<p>I can solve addition and subtraction multi-step problems in context, deciding which operations and methods to use.</p> <p>I can add and subtract numbers mentally with increasingly large numbers.</p> <p><b>Number: Multiplication and Division</b> I can identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers.</p> <p>I can understand and use the vocabulary of prime factors, prime and composite (non-prime) numbers.</p> <p>I can establish whether a number up to 100 is prime and can recall prime numbers up to 19.</p> <p>I can recognise and use square and cubed numbers and the notation for squared and cubed.</p> <p>I can solve problems involving multiplication and division using their knowledge of factors, multiples, squares and cubes.</p>	<p>I can add and subtract fractions with the same denominator and denominators that are multiples of the same number.</p> <p>I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</p> <p><b>Number: Decimals</b> I can read, write, order and compare numbers with up to three decimal places.</p> <p>I can read and write decimal numbers as fractions e.g. 0.71 is 71/100.</p> <p>I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.</p> <p>I can round decimals with two decimal places to the nearest whole number and to one decimal place.</p> <p><b>Number: Percentages</b> I can recognise the percent symbol (%) and understand that percent relates to 'number of parts per 100.'</p> <p>I can solve problems which require knowing percentage and decimal equivalents of <math>\frac{1}{2}</math> <math>\frac{1}{4}</math> <math>\frac{1}{5}</math> <math>\frac{2}{5}</math> <math>\frac{4}{5}</math> and those fractions with a denominator of a multiple of 10 or 25.</p>	<p>I can identify angles at a point and one whole turn (360°), angles at a point on a straight line and half turn (total 180°) and other multiples of 90°.</p> <p><b>Geometry: Position and Direction</b> I can identify, describe and represent the position of a shape following a reflection or translation.</p> <p>I can reflect or translate a shape and understand that the shape has not changed.</p>
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<p><b>Measurement: Perimeter and Area</b> I can measure and calculate the perimeter of composite rectilinear figure in centimetres and metres.</p> <p>I can calculate and compare the area of rectangles (including squares) using: standard units, square centimetres and square metres.</p> <p>I can estimate the area of irregular shapes.</p>		<p><b>Measurement: Converting Units</b> I can convert between different units of metric measure (e.g km and m, cm and m, cm and mm, g and kg, ml and l).</p> <p>I use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</p> <p>I can solve problems involving converting between units of time.</p> <p><b>Measurement: Volume</b> I can estimate volume (e.g using <math>1\text{cm}^3</math> blocks to build cuboids) and capacity (e.g using water).</p> <p>I can use all four operations to solve problems involving measure (for example: length, mass, volume and money) using decimal notation including scaling.</p>
<p><b>Statistics</b> I can solve comparison, sum and difference problems using information from a line graph.</p> <p>I can complete, read and interpret information from tables including timetables.</p>		