



Maths Medium Term Plan

Year 5 Spring Term – Miss Mills

Week	Topic	Objectives
Week 1	TIME	<p>To read and write the time on both 12 hour and 24 hour clocks (digital & analogue).</p> <p>To know the link between the 12 hour and 24 hour clock.</p> <p>To be able to convert time to a digital 12 hour and 24 hour clock.</p> <p>To be able to convert units of time e.g. seconds, minutes</p> <p>To be able to read and interpret information in timetables.</p> <p>To be able to solve problems involving time.</p>
Week 2	STATISTICS	<p>To be able to understand what is continuous and discrete data.</p> <p>To read and interpret a range of scales – link to number line.</p> <p>To be able to read, complete and interpret information presented in tables, bar charts and pictograms.</p> <p>To solve problems involving data presented in a line graph.</p>
Week 3	PLACE VALUE AND NUMBER	<p>To identify the value of each digit in a 6 or 7 digit number including numbers with at least one decimal place.</p> <p>To read and write number with at least one decimal place.</p> <p>To round 6 or 7 digit numbers to the nearest 100 or 1000 using a number line.</p> <p>To compare and order numbers with at least one decimal place on an empty number line.</p> <p>To partition numbers into ones, tenths and hundredths.</p> <p>To round decimals with at least one decimal places to the nearest whole number</p> <p>To solve problems involving number up to two decimal places.</p>
Week 4	ADDITION AND SUBTRACTION	<p>To estimate answers including rounding.</p> <p>To choose the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method.</p> <p>To add two whole numbers with up to 4 digits including using a compact written method of addition.</p> <p>To add two decimals numbers with up to two decimal places, including using a compact written method of addition.</p>



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		<p>To subtract whole numbers with more than 4 digits including using a compact written method of subtraction.</p> <p>To subtract decimals numbers with up to two decimal places, including using a compact written method of subtraction</p> <p>To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p>To solve problems involving addition, subtraction, multiplication and division and combinations of these.</p>
Week 5	MULTIPLICATION	<p>To estimate answers and use rounding.</p> <p>To consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method.</p> <p>To multiply two-digit or three-digit numbers by a one-digit number using written methods.</p> <p>To use inverse to check the answer to calculations</p> <p>To solve problems involving multiplying (and maybe adding) including integer scaling problems to make an amount a number of times larger.</p> <p>To solve problems involving addition, subtraction, multiplication and division and combinations of these.</p>
Week 6	DIVISION	<p>To estimate answers and use rounding.</p> <p>To consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method.</p> <p>To divide numbers up to 4 digits by a one-digit number using a written method of short division</p> <p>To interpret remainders appropriately for the context</p> <p>To solve problems involving division (including remainders) and integer scaling problems to make an amount a number of times smaller problems involving simple rates.</p> <p>To solve problems involving addition, subtraction, multiplication and division and combinations of these.</p>
Week 7	MEASURES - AREA	<p>To measure and calculate the perimeter of rectangular shapes.</p> <p>To sort regular and irregular polygons.</p>



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		<p>To use the properties of rectangles to find missing lengths and angles.</p> <p>To find the area of polygons by counting squares.</p> <p>To link area to arrays and use multiplication to find area.</p> <p>To calculate the area of rectangles (including squares), using standard units, square centimetres (cm²) and square metres (m²).</p> <p>To estimate (and find) the area of irregular shapes.</p> <p>To compare the area of rectangles (including squares), using standard units, square centimetres (cm²) and square metres (m²).</p> <p>To solve problems involving area.</p>
Week 8 & 9	MEASURES – LENGTH, MASS & CAPACITY	<p>To estimate and work practically with measures.</p> <p>To use, read and write standard units of length to a suitable degree of accuracy.</p> <p>To use, read and write standard units of mass to a suitable degree of accuracy.</p> <p>To use, read and write standard units of capacity to a suitable degree of accuracy.</p> <p>To estimate (and find) volume (for example, using 1 cm³ blocks to build cuboids (including cubes)).</p> <p>To estimate (and find) capacity (for example, using water).</p> <p>To estimate answers to calculations including using rounding.</p> <p>To consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method.</p> <p>To add and subtract to solve problems involving measures including those involving decimal numbers up to two decimal place.</p>
Week 10 & 11	FRACTIONS	<p>To recognise, find and write fractions of a discrete set of objects.</p> <p>To continue to compare and order fractions whose denominators are all multiples of the same number on a number line</p> <p>To be introduced to mixed number and improper fractions–practically or with diagrams</p> <p>To write a mixed number e.g. $1\frac{1}{5}$ and explain its meaning</p> <p>To write an improper fraction e.g. $\frac{11}{6}$ and explain its meaning</p> <p>To convert mixed numbers to and improper fractions and vice versa</p>



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		<p>To adding fractions with the same denominator.</p> <p>To subtract fractions with the same denominator.</p>
Week 12	SHAPE	<p>To distinguish between regular and irregular polygons based on reasoning about equal sides and angles To know what a polygon is.</p> <p>To sort regular and irregular polygons.</p> <p>To use the properties of rectangles to find missing lengths and angles.</p> <p>To measure and calculate the perimeter of rectangular shapes.</p> <p>To use the properties of rectangles to calculate missing lengths and angles</p> <p>To identify 3-D shapes, including cubes and other cuboids, from 2-D representations</p> <p>To compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</p> <p>To solve problems involving shapes</p>
Week 13	POSITION AND DIRECTION TO SOLVE PROBLEMS	<p>To describe positions on the first quadrant of a coordinate grid</p> <p>To plot specified points and complete shapes</p> <p>To identify, describe and represent the position of a shape following a reflection using the appropriate language, and know that the shape has not changed</p> <p>To identify, describe and represent the position of a shape following a translation, using the appropriate language, and know that the shape has not changed</p> <p>Solve problems involving position and/ or direction</p>