



Maths Medium Term

Year: 5

Term: Spring

Teacher: Miss Mills

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

		<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> <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>

		To solve problems involving area.
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 cm^3 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. $11/6$ and explain its meaning</p> <p>To convert mixed numbers to and improper fractions and vice versa</p> <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</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 continue to draw given angles, and measure them in degrees ($^{\circ}$)</p> <p>To identify angles at a point and one whole turn (total 360°)</p> <p>To identify angles at a point on a straight line and a turn (total 180°)</p> <p>To identify other multiples of 90°</p> <p>To solve problems involving shapes</p>

		To solve problems involving angles.
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>