



## Maths Medium Term

**Year: 4**

**Term: Spring**

**Teacher: Miss McMath**

<b>Week</b>	<b>Topic</b>	<b>Objectives</b>
Week 1	Place Value	<ul style="list-style-type: none"> <li>• Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones)</li> <li>• <i>Identify the value of each digit to at least one decimal place</i></li> <li>• Identify, represent and estimate numbers using different representations, including the number line</li> <li>• Solve number and practical problems that involve number and place value.</li> </ul>
Week 2	Addition and Subtraction	<ul style="list-style-type: none"> <li>• Estimate answers</li> <li>• <i>Think about the most appropriate strategy to solve a calculation mentally, using a jotting or a written method</i></li> <li>• Add numbers with up to 4 digits and decimals with one decimal place using a compact written method</li> <li>• Subtract numbers with up to 4 digits and decimals with one decimal place using an expanded or compact written method</li> <li>• Use inverse to check the answer to calculations</li> <li>• Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>
Week 3	Measure - Money	<ul style="list-style-type: none"> <li>• <i>Revise coinage and notes</i></li> <li>• <i>Continue to recognise and use symbols for pounds (£) and pence (p)</i></li> <li>• <i>Understand that the decimal point separates pounds and pence</i></li> <li>• Estimate answers</li> <li>• <i>Think about the most appropriate strategy to solve a calculation: mentally, using a jotting or a written method</i></li> <li>• <i>Add two or more amounts of money using compact written methods</i></li> </ul>

		<ul style="list-style-type: none"> <li>• Subtract to find a price difference or to calculate change using an expanded written method</li> <li>• Count up (shopkeepers addition) to find change from notes</li> <li>• Multiply amounts of money to find the price of several of the same article using an expanded method (use pictures or manipulatives to support)</li> <li>• Use inverse to check the answer to calculations</li> <li>• Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</li> <li>• Solve simple money problems involving fractions and decimals to at least one decimal place.</li> </ul>
Week 4	Measures-Weight	<ul style="list-style-type: none"> <li>• Read and interpret the scale on a range of measuring equipment</li> <li>• Estimate weights before measuring</li> <li>• Measure weights in Kg or g and record results using one decimal place</li> <li>• Convert between Kg and g</li> <li>• Estimate answers</li> <li>• Think about the most appropriate strategy to solve a calculation: mentally, using a jotting or a written method</li> <li>• Add two or more weights with up to 4 digits and decimals with one decimal place using a written methods</li> <li>• Subtract weights to find the difference or a decrease with numbers with up to 4 digits and decimals with one decimal place using an expanded or compact written method</li> <li>• Use inverse to check the answer to calculations</li> <li>• Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li> <li>• Solve simple weight problems involving fractions and decimals to one decimal place.</li> </ul>
Weeks 5 and 6	Fractions	<ul style="list-style-type: none"> <li>• Understand that a fraction is one whole number divided by another (for example, <math>\frac{3}{4}</math> can be interpreted as <math>3 \div 4</math>)</li> <li>• Compare and order unit fractions and fractions with the same denominator (including on a number line). (Year 3 objective)</li> <li>• Recognise, find and write fractions of a discrete set of objects</li> <li>• Estimate answers</li> <li>• Think about the most appropriate strategy to solve a calculation mentally, using a jotting or a written method</li> </ul>

		<ul style="list-style-type: none"> <li>• Add fractions with the same denominator using diagrams to support.</li> <li>• Subtract fractions with the same denominator using diagrams to support.</li> <li>• Recognise and show, using diagrams, families of common equivalent fractions, <i>especially in relation to halves and quarters</i></li> <li>• Solve problems involving fractions to calculate quantities, including non-unit fractions where the answer is a whole number</li> <li>• Solve problems involving fractions to fractions to divide quantities.</li> </ul>
Week 7	Decimals	<ul style="list-style-type: none"> <li>• Count in tenths <i>on counting stick</i></li> <li>• <i>Read and write numbers with one decimal place</i></li> <li>• <i>Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 (year 3)</i></li> <li>• <i>Identify the value of each digit to one decimal place.</i></li> <li>• <i>Partition numbers into ones and tenths (for example, <math>2.3 = 2 + 0.3</math>)</i></li> <li>• <i>Order and compare numbers with one decimal place including on a number line</i></li> <li>• <i>Divide a two-digit number by 10 to create decimals with one decimal place</i></li> <li>• Recognise and write decimal equivalents of any number of tenths e.g. <math>1/10 = 0.1</math></li> <li>• Recognise and write decimal equivalents to <math>1/4</math>; <math>1/2</math>; <math>3/4</math></li> <li>• <i>Solve problems involving ordering numbers to one decimal place.</i></li> </ul>
Week 8	Multiplication	<ul style="list-style-type: none"> <li>• Recall multiplication and division facts for the 7 x and 11 x tables</li> <li>• <i>Use partitioning to double or halve any number, including decimals to one decimal place by partitioning and re-combining</i></li> <li>• Estimate answers</li> <li>• <i>Think about the most appropriate strategy to solve a calculation mentally, using a jotting or a written method</i></li> <li>• Multiply two-digit or three-digit numbers by a one-digit number using an expanded written method</li> <li>• Use inverse to check the answer to calculations</li> <li>• Solve problems involving multiplying (<i>and maybe adding</i>) including integer scaling problems to <i>make an amount a number of times larger.</i></li> </ul>
Week 9	Division	<ul style="list-style-type: none"> <li>• <i>Continue to understand division as sharing and grouping and use each appropriately</i></li> <li>• Estimate answers</li> <li>• <i>Think about the most appropriate strategy to solve a calculation: mentally, using a jotting or a written method</i></li> </ul>

		<ul style="list-style-type: none"> <li>• <i>Divide numbers up to 3 digits by a one-digit number using an expanded or written method of short division (using manipulative /diagrams to support)</i></li> <li>• <i>Interpret remainders appropriately for the context</i></li> <li>• <i>Use inverse to check the answer to calculations</i></li> <li>• <i>Solve problems involving division (including remainders) and integer scaling problems to make an amount a number of times smaller.</i></li> </ul>
Weeks 10 and 11	Shape, position and direction	<ul style="list-style-type: none"> <li>• <i>Understand that area is a measure of surface within a shape</i></li> <li>• <i>Find the area of rectilinear shapes by counting squares</i></li> <li>• <i>Describe movements between positions as translations of a given unit to the left/right and up/down</i></li> <li>• <i>Describe positions on a 2-D grid as coordinates in the first quadrant</i></li> <li>• <i>Plot specified points and draw sides to complete a given polygon</i></li> <li>• <i>Complete a simple symmetric figure with respect to a specific line of symmetry</i></li> <li>• <i>Solve problem involving shape</i></li> <li>• <i>Solve problems involving position and /or direction.</i></li> </ul>