



Maths Medium Term

Year: 6

Term: Autumn

Teacher: Mrs Pemberton

<u>Week</u>	<u>Topic</u>	<u>Objectives</u>
Week 1&2	NUMBER AND PLACE VALUE	<p>Read and write numbers in numerals and words and recognise the place value of numbers up to 100,000.</p> <p>Identify the place value of each digit for whole numbers and decimals to two decimal places and use decimal notation for tenths and hundredths.</p> <p>Partition, round, compare and order whole numbers and decimals.</p> <p>Solve one and two step problems involving number, deciding which operation to use and why.</p>
Week 3&4	ADDITION & SUBTRACTION TO SOLVE PROBLEMS	<p>Estimate answers to calculations.</p> <p>Consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method.</p> <p>Revise addition of whole numbers with up to 4 digits and decimals with two decimal place, including using a compact written method.</p> <p>Revise subtraction whole numbers with up to 4 digits and decimals with two decimal place including using a compact written method.</p> <p>Use the inverse to check the answers to calculations.</p> <p>Solve addition and subtraction problems in contexts, deciding which operations and methods to use and why.</p>
Week 5	MEASURES – MONEY TO SOLVE PROBLEMS	<p>Add amounts of money including using a compact written method</p> <p>Subtract amounts of money including using a compact written method</p> <p>Calculate change including from £10, £20 or £50</p> <p>Solve addition and subtraction multi-step problems in the context of money deciding which operations and methods to use and why</p>
Week 6	MULTIPLICATION, FACTORS AND PRIMES TO SOLVE PROBLEMS	<p>Identify patterns of similar calculations, e.g. If I know 5×9, I also know 0.5×0.9, 90×5, 90×50 etc</p> <p>Use mental starters to revise and recall multiplication facts and number sequences using multiples.</p> <p>Find factor pairs and factors of numbers using table knowledge and arrays.</p> <p>Know how to find the common factors of two numbers.</p> <p>Know how to find prime numbers up to 100 – link to square numbers. Know and use the vocabulary of prime numbers.</p> <p>Record square numbers using 2 for squared.</p> <p>Solve problems involving using and applying the knowledge of factors, multiples, square numbers and cube numbers.</p>
Week 7	MULTIPLICATION TO SOLVE PROBLEMS	<p>Use mental starters to revise multiplication facts and related division facts. Solve missing number problems.</p> <p>Multiply numbers up to 4 digits by a one-digit or two-digit number using an expanded written method (once secure use compact method).</p> <p>Use the inverse to check.</p> <p>Solve problems involving multiplication.</p>

Week 8	DIVISION TO SOLVE PROBLEMS	<p>Use mental starters to revise division facts. Solve missing number problems.</p> <p>Divide numbers up to 4 digits by a one-digit number using a compact written method of short division.</p> <p>Use the inverse to check.</p> <p>Interpret remainders appropriately in the context of the question.</p> <p>Solve problems involving division including remainders.</p>
Week 9 & 10	FRACTIONS TO SOLVE PROBLEMS	<p>Understand that a fraction is one whole number divided by another (for example, $\frac{3}{4}$ can be interpreted as $3 \div 4$).</p> <p>Read and write decimal numbers as fractions and vice versa.</p> <p>Identify, name and write equivalent fractions of a given fraction, use manipulatives and diagrams represented visually –link to factors and multiples.</p> <p>Identify, name and write equivalent fractions of a number of tenths or hundredths - use manipulatives or diagrams.</p> <p>Compare and order fractions where the denominators are all multiples of the same number (on a number line) i.e. $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{6}$ and $\frac{1}{12}$.</p> <p>Once secure add fractions with the same denominator and denominators that are multiples of the same number (using diagrams and/ or manipulatives) and subtract fractions with the same denominator and denominators that are multiples of the same number (using diagrams and/or manipulatives).</p> <p>Solve problems involving fractions.</p>
Week 11	SHAPE, POSITION AND DIRECTION TO SOLVE PROBLEMS	<p>Know how to use a protractor.</p> <p>Know angles are measured in degrees.</p> <p>Estimate and compare acute, obtuse and reflex angles.</p> <p>Draw given angles and measure them in degrees ($^{\circ}$).</p> <p>Know how to compare lengths and angles to decide if a polygon is regular or not.</p> <p>Sort regular polygons and those that are not regular.</p> <p>Use the properties of rectangles to find missing lengths and angles in given shapes.</p> <p>Measure and calculate the perimeter of rectangular shapes in centimetres and/or metres.</p>
Week 12	MEASURES – TIME TO SOLVE PROBLEMS	<p>Continue to read, write and convert time between analogue and digital 12 hour clocks.</p> <p>Know the link between the 12 hour and 24 hour clock.</p> <p>Read, write and convert time between analogue and digital 12 hour clock and 24 hour clock.</p> <p>Solve problems involving converting between units of time e.g. seconds and minutes, half past 12 and 13:30.</p> <p>Understand and use approximate equivalences between metric and common imperial units such as pints.</p>
Week 13	STATISTICS TO SOLVE PROBLEMS	<p>Revise continuous and discrete data.</p> <p>Read and understand scales, including estimating points that are between the numbers marked on the scales.</p> <p>Solve comparison, sum and difference problems using information presented in a line graph.</p> <p>Complete, read and interpret information in tables, including timetables - link to 24 hour clock.</p>