



Maths Medium Term

Year: 4

Term: Summer

Teacher: Miss McMath

<u>Week</u>	<u>Topic</u>	<u>Objectives</u>
Week 1	Shape and position and direction	<ul style="list-style-type: none"> • Understand that area is a measure of surface within a shape • Find the area of rectilinear shapes by counting squares • Describe movements between positions as translations of a given unit to the left/right and up/down • Describe positions on a 2-D grid as coordinates in the first quadrant • Plot specified points and draw sides to complete a given polygon • Complete a simple symmetric figure with respect to a specific line of symmetry • Solve problem involving shape • Solve problems involving position and /or direction
Week 2	Number and place value to solve problems	<ul style="list-style-type: none"> • Introduce hundredths as the effect of dividing a one- or two-digit number by 100 • Partition numbers into tens, ones, tenths and hundredths using manipulative to support • Identify the value of each digit to at least one decimal place • Read and write decimal numbers using the correct terms • Recognise and write decimal equivalents of any number of tenths and hundredths • Recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$ • Round decimals with one decimal place to the nearest whole number.



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		<ul style="list-style-type: none"> • Order and compare numbers with the same number of decimal places up to two decimal places including on a number line • Solve problems that involve number and place value
Week 3	Addition and subtraction to solve problems	<ul style="list-style-type: none"> • Estimate answers • Consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method • Add numbers with up to 4 digits and decimals with at least one decimal place using a compact written method. • Subtract numbers with up to 4 digits and decimals with at least one decimal place using a compact written methods of subtraction use inverse to check the answers to calculations • Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
Week 4	Measures – Money to solve problems	<ul style="list-style-type: none"> • Revise coinage and notes • Continue to recognise and use symbols for pounds (£) and pence (p) • Understand that the decimal point separates pounds and pence • Estimate answers • Consider the most appropriate strategy to solve a calculation calculate mentally, use a jotting or a written method • Add two or more amounts of money with up to 5 digits (including decimals with two decimal places) using a written method of addition where appropriate. • Subtract amounts of money with up to 5 digits (including decimals with two decimal places) using a written method of subtraction where appropriate.



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		<ul style="list-style-type: none"> • Use inverse to check the answers to calculations • Calculate change from multiples of 10 or 100 to £500 • Solve problems involving money
Week 5	Measures- capacity / volume to solve problem	<ul style="list-style-type: none"> • Read and interpret the scale on a range of measuring instruments –link to number line • Estimate, compare and calculate different capacity/volumes. • Convert between different units of capacity l/mm • Estimate answers • Consider the most appropriate strategy to solve a calculation calculate mentally, use a jotting or a written method • Add two or more volumes with up to 4 digits (including decimals with two decimal places) using a written method of addition where appropriate • Subtract volumes up to 4 digits (including decimals with two decimal places) using a written method of subtraction where appropriate • Solve problems involving capacity
Weeks 6 and 7	Fractions to solve problems	<ul style="list-style-type: none"> • Estimate answers • Consider the most appropriate strategy to solve a calculation calculate mentally, use a jotting or a written method • Add fractions with the same denominator-use diagrams and manipulatives to support • Subtract fractions with the same denominator- use diagrams and manipulatives to support



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		<ul style="list-style-type: none"> • Recognise and show, using diagrams, families of common equivalent fractions • Solve problems involving using fractions to calculate quantities, including non-unit fractions where the answer is a whole number • Solve problems involving using fractions to divide quantities including non-unit fractions where the answer is a whole number
Week 8	Multiplication and division to solve problems	<ul style="list-style-type: none"> • Estimate answers • Consider the most appropriate strategy to solve a calculation calculate mentally, use a jotting or a written method • Multiply two-digit and three-digit numbers by a one-digit number using an expanded written layout. • Divide numbers up to 3 digits by a one-digit number using a written method of short division and interpret remainders appropriately for the context • Use inverse to check the answers to calculations • Solve problems involving multiplying and adding, scaling problems and harder correspondence problems such as which n objects are connected to m objects. • Solve problems division (including remainders) and integer scaling problems
Week 9	Shape and position and direction to solve problems	<ul style="list-style-type: none"> • Identify lines of symmetry in 2-D shapes presented in different orientations • Complete a simple symmetric figure • Describe movements between positions as translations the left/right and up/down. • Describe positions on a 2-D grid as coordinates in the first quadrant. • Plot specified points on a grid



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		<ul style="list-style-type: none"> • Draw sides to complete a given polygon on a grid • Sort compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties • Continue to identify horizontal and vertical lines and pairs of perpendicular and parallel lines. • Identify acute and obtuse angles • Compare and order angles up to two right angles by size • Solve problems involving shapes • Solve problems involving position and/or direction
Weeks 10 and 11	Statistics to solve problems	<ul style="list-style-type: none"> • Read and interpret a range of scales – link to number line • Understand the distinction between discrete and continuous data • Interpret and present discrete data including bar charts, pictograms, diagrams, tables and time graphs • Interpret and present continuous data using graphs • Solve comparison, sum and difference problems using information presented in bar charts, pictograms, diagrams, tables and graphs
Week 12	Measures – Time to solve problems	<ul style="list-style-type: none"> • Read, write and convert time between analogue and digital (12 hour clocks.) • Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days • Solve problems involving time expressed on graphs
Week 13	Assess and review	