

Year 3 Medium Term Plan Maths

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
	Number sense As part of starter activities count in steps of 4 and 8 forwards and backwards from and to 0 and also other multiplication tables that you want the children to rehearse, decimal and fraction steps ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, tenths and the decimal equivalent 0.1) and steps that help children with mental calculation strategies such as 50 and 100. Link to linear number sequences (20, 30, 40, ?, ? : n+20) It is also helpful to count in positive and negative integers across zero. Several times a week work on telling the time with clocks and rehearsing mental calculation strategies				Additive Reasoning			
Term 1 Invaders and Settlers	Place Value Teach terms positional, multiplicative, additive, base10 and use alongside teaching Place Value to 1000 Place Value Grids & Digit cards Gettegno charts	Link to measurement-practical activities with mass capacity & vice versa Ordering and comparing, Greater than, less than, equals, rounding	Fractions – whole part relationships (birds and faces), link to division. Problem solving using bar model throughout Focus on halves, quarters and eighths. Take each fraction one at a time and explore that fraction of numbers, quantities and shapes (where	Focus on fifths and tenths as with halves etc. Then move onto thirds and sixths Problem solving using bar model throughout	Mental Calculation – partitioning, doubling, halving, number pairs, multiples of 10 and adjusting, using known number facts, bridging through 10, counting on and counting back Time differences and	Working towards written method for addition using subtraction as a check Consolidate vertical addition using partitioning Explore moving to the short method with exchanging All done with Dienes and slow	Working towards written method for subtraction using addition as a check Teach vertical subtraction using Dienes and model the written method Focus on lots of practise	Assessment Week

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	Zero as place holder		shapes have fractions shown that are not the same shape) at the same time. Look at equivalences between halves, quarters and eighths.		durations with 12 and 24 hour time Bar charts Perimeter of rectangles and squares and its formula Missing whole number problems linking to algebra	enough for ch to develop a conceptual understanding	with equipment	
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	Multiplicative Reasoning					Geometric Reasoning		
Term 2 Invaders and Settlers	Mental calculation strategies, partitioning $(93 \div 4) \times 4$ doubling and doubling, $\div 4$ halving and halving, \times by 5 and 10 and halving, \div by 5 and \div by 10 and doubling using known facts, Grouping Use the multiplicative language of place value	Mental calculation strategies, partitioning $(93 \div 4) \times 4$ doubling and doubling, $\div 4$ halving and halving, \times by 5 and 10 and halving, \div by 5 and \div by 10 and doubling using known facts, Grouping Use the multiplicative language of place value	Working towards the grid method for multiplication Use the positional language of place value Make arrays using Dienes and place value counters for 2 digit multiplication by single digit and model grid method. Check using division linking to the array, for example, $228 \div 76 = 3$ and link to $228 \div 3 = 76$	Using grouping for division finding how many groups of the divisor are in the dividend, making arrays as guidance shows Use the positional language of place value	Scaling up and scaling down. Link to doubling and fractions. Link this to ratio. Work within the context of measure – half as much, 4 times as much, a fifth of the size etc.	3D shape: using plasticine to make sphere, cube, cuboid, pyramid, exploring what doing to get each new shape and properties including naming face shapes Sorting activities including Venn and Carroll diagrams	3D shape: Use plasticine to make shapes and visualise net of pyramid, then cube. Explore which patterns make nets and which don't. Explore shapes in different orientations	

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	Number Sense				Additive Reasoning			
Term 3 Heroes and Villains	Place Value as in term 1 and including 100ths Also include algebra: finding pairs of numbers that satisfy an equation with two unknowns, e.g. $a + b = 148$ $a - 36 = b$ Solving missing number problems and linking to algebra	Negative numbers within the context of temperature on different scales Roman numeral investigation to 100	Fractions, Equivalences between $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}$ using strips of paper, counting in fractional steps and link this to improper fractions and mixed numbers – e.g. $\frac{1}{2}, 1, 1\frac{1}{2}, 2, 2\frac{1}{2}$, how many halves? Problem solving with fractions using the bar model	ASSESSMENT WEEK	Mental calculation strategies as in Term 1, picking up on any that weren't covered, linking to time differences and durations, Perimeter of rectangles and squares	Reinforce and rehearse written calculation methods for addition, linking to whole pound (£) money problems Bar charts	Reinforcing and rehearse written calculation methods for subtraction, linking to whole pound (£) money problems Bar charts	

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	Multiplicative Reasoning					Geometric Reasoning		
<p>Term 4</p> <p>Heroes and Villains</p>	<p>Mental Calculation as in term 2 in different contexts for example converting units of time e.g. 2 hours = 120 mins</p> <p>Also include common factors and multiples plus finding pairs of numbers that satisfy an equation with two unknowns, e.g. $a \times 12 = b$, $a \times b = 48$</p>	<p>Mental Calculation as in term 2 in different contexts for example converting units of measure e.g. $3m = 300cm$</p> <p>Also include common factors and multiples plus finding pairs of numbers that satisfy an equation with two unknowns, e.g. $a \times 12 = b$, $a \times b = 48$</p>	<p>Reinforce and rehearse Term 2 - Written methods for multiplication – arrays and teach grid method</p> <p>Division as a check for the multiplication</p> <p>Statistics- pictograms and bar graphs with symbols and divisions with multiples of 2, 4 and 8 etc</p>	<p>Reinforce and rehearse Term 2 Division – setting out the dividend using place value counters and Dienes –how many groups of the divisor can they make out of the positional digit –see planning document</p>	<p>Scaling up and scaling down as in term 2</p> <p>Common factors and multiples</p> <p>Factor and multiple investigations.</p>	<p>2D shape: compare, classify and draw shapes according to properties, including symmetry and right angles.</p> <p>Sorting activities including Venn and Carroll diagrams</p> <p>Identifying right angles in the environment and recognise: 1 right angle $\frac{1}{4}$ turn of 90°</p> <p>2 right angles are $\frac{1}{2}$ turn of 180° and 3 are $\frac{3}{4}$ turn of 270°</p> <p>Link to Kandinsky</p>	<p>2D shape: Explore shapes in different orientations</p> <p>Focus on different named regular and irregular polygons</p> <p>Introduce parallel and perpendicular</p> <p>Link to Kandinsky and Mondrian</p>	

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	Number Sense			Additive Reasoning				
Term 5 Locality	Place Value as in Term 1 and Term 3 Link to measurement-practical activities with mass capacity & vice versa Ordering and comparing, Greater than, less than, equals	Consolidation of Roman Numerals including with clocks and problem solving	Fractions Addition and subtraction of simple fractions with the same denominator and simple equivalent fractions including $\frac{1}{2}$ and 0.5	Consolidation of mental calculation strategies within different contexts, including time	Consolidation of written method for addition within different contexts	Consolidation of written method for subtraction within different contexts		
	Multiplicative Reasoning					Geometric Reasoning		
Term 6 Locality	Consolidation of mental calculation strategies as Terms 2 and 4	Consolidation of mental calculation strategies as Terms 2 and 4	Consolidation of written calculation for grid method multiplication within context as Term 4	Consolidation of written calculation for grouping within context as Term 4 and include	Consolidation of scaling up and scaling down	Consolidation of 3D shape including problem solving	Consolidation of 2D shape including problem solving	

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