

Year 4 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 6,7,9, 25 and 1 000 and also other multiplication tables that you want the children to rehearse, decimal and fraction steps ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, 10^{th} and hundredths) and steps that help children with mental calculation strategies such as 20, 25, 50 and 75. 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 The Tudors	Place Value Terms – positional, multiplicative, additive, base10 Place Value to 10 000 and tenths Grids & Digit cards Gettegno charts Zero as place holder	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 shapes have	Focus on fifths and tenths as with halves etc. Link tenths to decimal place value 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	Written methods for addition and subtraction, whole numbers, subtraction to check and vice versa Linking to money Bar charts, finding totals and differences	Written methods for addition and subtraction, Find totals and differences of measures of length, cm mass kg and g, capacity, l and ml, practical activities and problem solving (sand)	Assessment Week

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			<p>fractions shown that are not the same shape) at the same time. Look at equivalences between halves, quarters and eighths.</p>		<p>durations with 12 and 24 hour time Bar charts Perimeter and its formula Missing whole number problems linking to algebra</p>			
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	Multiplicative Reasoning				Geometric Reasoning			
Term 2 The Tudors	Mental calculation strategies, partitioning ($93 \div 4$) doubling and doubling, halving and halving, x by 5 and 10 and halving, \div by 5 and \div by 10 and doubling by 20 by x10 and double \div 20 by \div 10 and halving, x by 15, x by 10, halve and add, using known facts, Grouping Bar model problems, e.g. Sam had 23 cars, Tom had 5 times as many. How many more did	Working towards the written methods. Make arrays using Dienes and place value counters for 3 digit multiplication by single digit and link to grid method. Link this to division using the array, for example, $1\ 365 \times 3 = 4\ 095$, so $4\ 095 \div 365 = 11$ and link to $4\ 095 \div 3 = 1365$. Link to measures: 1l 245ml juice in a jug, how much in 3 jugs?	Written methods with reasoning for division and multiplication as the inverse. Use manipulatives for 3 digits by single digit. Record as horizontal number statement. Checking using multiplication. Word problems that have remainders and the children need to decide what to do, e.g. 176 goldfish put in bowls, 5 in each. How many bowls needed?	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 and then visualising net of pyramid, then cube. Exploring which patterns make nets and which don't. Repeat net work for cuboids, prisms.	2D shape: compare and classify shapes according to properties, including symmetry and angles (acute, obtuse and right). Focus on different named quadrilaterals and triangles	Coordinates, plotting given points to create polygons Translation	

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	Tom have? Link with converting units of time. Missing number problems linking to algebra.								
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	Number Sense				Additive Reasoning				
Term 3 Ancient Egypt	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 regular (with formula) and irregular shapes including compound shapes	Written calculation methods for addition and subtraction, linking to money multi-step problems Link to 100ths Bar charts			

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	Multiplicative Reasoning				Geometric Reasoning			
Term 4 Ancient Egypt	Mental Calculation as in term 2 Also include common factors and multiples plus finding pairs of numbers that satisfy an equation with two unknowns, e.g. $a \times 12 = b$, $a \times b = 48$ Areas of composite shapes	Written methods for multiplication – arrays – grid method – short method hand in hand Division as a check for the multiplication Statistics- pictograms and bar graphs with symbols and divisions with multiples of 3 and 6, 4 and 8 etc	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	Scaling up and scaling down as in term 2 Common factors and multiples Factor and multiple investigations.	Consolidation of Term 2	Consolidation of Term 2 plus completing simple symmetric figures		

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	Number Sense			Additive Reasoning			
<p>Term 5</p> <p>Rivers</p>	Place Value as in Term 1 and Term 3 including working with 100ths Link to measurement-practical activities with mass capacity & vice versa Ordering and comparing, Greater than, less than, equals	Roman Numerals including with clocks and problem solving	Fractions Addition and subtraction Bringing in decimal equivalences (0.25,0.5,0.75) through the context of measure	Consolidation of mental calculation strategies within different contexts, including time	Written methods Consolidation of written methods within different contexts		

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	Multiplicative Reasoning				Geometric Reasoning			
Term 6 Rivers	Mental calculation strategies as Terms 2 and 4	Written calculation for multiplication as Term 4 with division as a check within different contexts	Written calculation for division as Term 4 with multiplication as a check within different contexts	Scaling up and scaling down as Terms 2 and 4 linking to measurement	Consolidation of 3D and 2D shape including problem solving	Consolidation of coordinates, symmetry, translations and introduce reflections by linking it to symmetry		