

Year 4 - Maths Overview			
Term	Topic	Objectives	Mental Maths Objectives
Autumn	Number: Place Value Week 1/2	<p>Represent numbers to 1,000. 100s, 10s and 1s - use place value chart to give value to digits. Number line to 1,000 - add numbers to the line with various values at each end. Round to the nearest 10, Round to the nearest 100 - using 3, 4, 5-digit numbers to round to 10 or 100. Count in 1,000s - chanting. 1,000s, 100s, 10s and 1s - mental starters to add on Partitioning - breaking down the numbers to see and understand the value of each digit. Number line to 10,000 - adding numbers to it with differing values at each end. Find 1, 10, 100 more or less - simple adding calculations to add on. 1,000 more or less. as above Compare numbers - start with comparing 2 digit and move to 3, 4 and 5. Order numbers - smallest to largest and vice versa Round to the nearest 1,000 - use 4- or 5-digit numbers to round. Count in 25s - chanting, look at pie charts, and clocks to know groups of 25. Negative numbers - use number line in class to help relate to temp or lift and car parks. Roman numerals to 100 - use for date so children become familiar.</p>	<p>Find 1000 more/less than a given number. Add and subtract £1, 10p and 1p to amounts of money. Know the 3x and 4x table. Apply and investigate. Know associated division facts. Know by heart, quickly derive number bonds to 100 and £1. Add and subtract any two 2-digit numbers by partitioning or counting on</p>

	<p>Number: Addition and Subtraction Week 3/4 and 6/7</p>	<p>Add and subtract 1s, 10s, 100s and 1,000s - simple multiple of ten numbers to add and subtract from.  Add two 3-digit numbers - not crossing 10 or 100 - use in written calculations.  Add two 4-digit numbers – no exchange - include in written calculations - keep numbers easy to add.  Add two 3-digit numbers - crossing 10 or 100.  Add two 4-digit numbers – one exchanges.  Add two 4-digit numbers – more than one exchange - once taught, include in written calculations daily for support and revision.  Subtract a 3-digit number from a 3-digit number - no exchange.  Subtract two 4-digit numbers – no exchange.  Subtract a 3-digit number from a 3-digit number - exchange.  Subtract two 4-digit numbers – one exchanges.  Subtract two 4-digit numbers – more than one exchange - again once taught keep coming back in written calculations to ensure understanding.  Efficient subtraction - find and discuss the most efficient way - discuss ways which are inefficient and why they are.  Estimate answers - rounding numbers can help with this.  Checking strategies - discuss children’s strategies.</p>	
	<p>Measurement: Length and Perimeter Week 5</p>	<p>Equivalent lengths - m and cm - compare and keep asking number of CM in M etc throughout lesson.  Equivalent lengths - mm and cm - as above.  Kilometres - as above.  Add lengths - especially when cm and m or other conversions are involved.  Subtract lengths - as above.</p>	

		<p>Measure perimeter - add all sides together - convert to same unit of measurement. Link with real life (field of cows etc).</p> <p>Perimeter on a grid - count the squares on each side.</p> <p>Perimeter of a rectangle - add up all the sides.</p> <p>Perimeter of rectilinear shapes - add all sides including missing numbers.</p>	
	<p>Measurement: Area Week 8</p>	<p>What is area?</p> <p>Counting squares.</p> <p>Making shapes.</p> <p>Comparing area.</p>	
	<p>Number: Multiplication and Division Week 9/10/11</p>	<p>Multiply by 10 - make ten times more to any number - concentrate on moving across the decimal point.</p> <p>Multiply by 100 - as above but 100 times more</p> <p>Divide by 10 - ten times less.</p> <p>Divide by 100 - 100 times less across the decimal point.</p> <p>Multiply by 1 and 0 - same answer or zero.</p> <p>Divide by 1 and itself - as above.</p> <p>Multiply and divide by 3 - activities involving 3 times tables.</p> <p>The 3 times-table - as above</p> <p>Multiply and divide by 6 - activities involving 6 times tables. 6 times table and division facts.</p> <p>Multiply and divide by 9. 9 times table and division facts.</p> <p>Multiply and divide by 7. 7 times table and division facts.</p>	
	<p>Consolidation Week 12</p>		

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<b>Spring</b>		Roman numerals to 100 - use for date so children become familiar.	
	Number: Multiplication and Division Week 3/4/5	<p>11 and 12 times-table - ways to remember, rote learning, understanding the numbers involved, odd even etc,  Multiply 3 numbers - keep numbers simple 2 x 5 x 7 - take two numbers and multiply remind that doesn't matter about the order of numbers.  Factor pairs.  Efficient multiplication.  Written methods.  Multiply 2-digits by 1-digit (1)  Multiply 2-digits by 1-digit  Multiply 3 digits by 1-digit  Divide 2-digits by 1-digit (1)  Divide 2-digits by 1-digit (1)  Divide 2-digits by 1-digit (2)  Divide 2-digits by 1-digit (2)  Divide 3-digits by 1-digit.  Correspondence problems.</p>	
	Measurement: Money Week 6/7	<p>Pounds and pence.  Ordering money.  Estimating money.  Convert pounds and pence.  Add money.  Subtract money.  Find change.  Four operations.</p>	
	Number: Fractions Week 8/9	<p>Unit and non-unit fractions.  What is a fraction?</p>	

		<p>Tenths Count in tenths. Equivalent fractions (1) Equivalent fractions (2) Equivalent fractions (1) Equivalent fractions (2) Fractions greater than 1 Count in fractions. Add fractions. Add two or more fractions.</p>	
	<p>Statistics Week 10/11</p>	<p>Interpret charts. Comparison, sum and difference. Introducing line graphs. Line graphs.</p>	
	<p>Consolidation Week 12</p>		

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	Number: Fractions Week 1/2	Unit and non-unit fractions. What is a fraction? Tenths. Count in tenths. Equivalent fractions (1) Equivalent fractions (2) Equivalent fractions (1) Equivalent fractions (2) Fractions greater than 1. Count in fractions. Add fractions. Add two or more fractions.	
Summer	Number: Decimals Week 3/4/5	Bonds to 10 and 100. Make a whole. Write decimals. Compare decimals. Order decimals. Round decimals. Halves and quarters.	Begin to double and halve amounts of money (£35.60 doubles = £71.20) Read Roman numerals to 100. Count up/down in hundredths. Count in 7s and 9's. Know 6x and 8x tables and relevant division facts. Partition 2-digit numbers to multiply by a single –digit number mentally (4 x 24 as 4 x 20 and 4 x 4). Use understanding of place value and number facts in mental multi and division (36 x 5 is half of 36 x 10 and 50 x 60 = 3000 or 245 ÷ 20 is half 245 ÷ 10). Divide multiples of 100 by 1-digit numbers using division facts (3200 ÷ 8= 400).

	<p>Measurement: Time Week 6</p>	<p>Telling the time to 5 minutes. Telling the time to the minute. Using a.m. and p.m. 24-hour clock. Hours, minutes and seconds. Years, months, weeks and days. Analogue to digital – 12 hours. Analogue to digital – 24 hours.</p>	
	<p>Number: Decimals Week 7/8</p>	<p>Recognise tenths and hundredths. Tenths as decimals. Tenths on a place value grid. Tenths on a number line. Divide 1-digit by 10. Divide 2-digits by 10. Hundredths. Hundredths as decimals. Hundredths on a place value grid. Divide 1 or 2-digits by 100.</p>	
	<p>Geometry: Properties of Shape Week 9/10/11</p>	<p>Turns and angles. Right angles in shapes. Compare angles. Identify angles. Compare and order angles. Recognise and describe 2-D shapes. Triangles. Quadrilaterals. Horizontal and vertical. Lines of symmetry. Complete a symmetric figure.</p>	



	Geometry: Position and Direction Week 12	Describe position. Draw on a grid. Move on a grid. Describe movement on a grid.	
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