



Mount Pleasant Primary School

Maths Medium-Term Plan / Small Steps: Year 2

Autumn	NC	<p>Count in steps of 2, 3, and 5 from 0, and in tens from any number, forwards and backwards</p> <p>Compare and order numbers from 0 up to 100; use $<$, $>$ and $=$ signs</p> <p>Identify, represent and estimate numbers using different representations, including the number line</p> <p>Read and write numbers to at least 100 in numerals and in words</p> <p>Recognise the place value of each digit in a two-digit number (tens, ones)</p> <p>Use place value and number facts to solve problems</p>	<p>Recall/use addition/subtraction facts to 20 fluently, and derive and use related facts up to 100</p> <p>Add and subtract concrete objects, pictorial representations, and mentally, including:</p> <ul style="list-style-type: none"> * a two-digit number and ones * a two-digit number and tens * two two-digit numbers * adding three one-digit numbers <p>Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot</p> <p>Recognise and use the inverse relationship between addition and subtraction</p> <p>Solve problems with addition and subtraction using concrete objects and pictorial representations, Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</p>	<h3>Problem Solving Skills</h3> <p>All possibilities</p> <p>Logic</p> <p>Rules</p>	<p>Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line</p> <p>Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</p> <p>Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</p> <p>Compare and sort common 2-D and 3-D shapes and everyday objects</p>
	Small Steps	<h3>Place Value</h3> <p>Numbers to 20</p> <p>Count objects to 100 by making 10s</p> <p>Recognise tens and ones</p> <p>Use a place value chart</p> <p>Partition numbers to 100</p> <p>Write numbers to 100 in words</p> <p>Flexibly partition numbers to 100</p> <p>Write numbers to 100 in expanded form</p> <p>10s on the number line to 100</p> <p>10s and 1s on the number line to 100</p> <p>Estimate numbers on a number line</p> <p>Compare objects</p> <p>Compare numbers</p> <p>Order objects and numbers</p> <p>Count in 2s, 5s and 10s</p> <p>Count in 3s</p>	<h3>Addition & Subtraction</h3> <p>Bonds to 10</p> <p>Fact families</p> <p>addition and subtraction bonds within 20</p> <p>Related facts</p> <p>Bonds to 100 (tens)</p> <p>Add and subtract 1s</p> <p>Add by making 10</p> <p>Add three 1 digit numbers</p> <p>Add to the next 10</p> <p>Add across a 10</p> <p>Subtract across 10</p> <p>Subtract from a 10</p> <p>Subtract a 1 digit number from a 2 digit number (across a 10 more, 10 less)</p> <p>Add and subtract 10s</p> <p>Add two 2 digit numbers (not across a 10)</p> <p>Add two 2digit numbers (across a 10)</p> <p>Subtract two 2digit numbers (not across a 10)</p> <p>Subtract two 2 digit numbers (across a 10)</p> <p>Mixed addition and subtraction</p> <p>Compare number sentences</p> <p>Missing number problems</p>		<h3>Shape</h3> <p>Recognise 2D and 3 D shapes</p> <p>Count sides on 2D shapes</p> <p>Count vertices on 2D shapes</p> <p>Draw 2D shapes</p> <p>Lines of symmetry on shapes</p> <p>Use lines of symmetry to complete shapes</p> <p>Sort 2D shapes</p> <p>Count faces on 3D shapes</p> <p>Count edges on 3D shapes</p> <p>Count vertices on 3D shapes</p> <p>Sort 3D shapes</p> <p>Make patterns with 2D and 3 D shapes</p>
	Number	Problem Solving Skills	Measurement	Geometry	



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Spring	NC	<p>Recognise and use symbols for pounds (£) and pence (p) Combine amounts to make a particular value Find different combinations of coins that equal the same amounts of money Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</p>	<p>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts</p>	<p>Compare and order lengths and record the results using >, < and = Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm) to the nearest appropriate unit, using rulers</p>	<p>Compare and order mass and record the results using >, < and = Choose and use appropriate standard units to estimate and measure mass (kg/g) to the nearest appropriate unit, using scales Compare and order volume/capacity and record the results using >, < and = Choose and use appropriate standard units to estimate and measure capacity (litres/ml) to the nearest appropriate unit, using measuring vessels Choose and use appropriate standard units to estimate and measure temperature (°C) to the nearest appropriate unit, using thermometers</p>	
	Small Steps	<p>Money recognize coins and notes count money – pence count money - pounds count money – pounds and pence count money – notes and coins select money make the same amount compare money find the total find the difference find change 2-step money problems</p>	<p>Multiplication & Division recognize, make and add equal groups multiplication sentences using x multiplication sentences from pictures use arrays x2, x5, 10 table make equal groups – sharing make equal groups – grouping divide by 2 odd and even numbers divide by 5 and 10</p>	<p>Length & Height measure length (cm) measure length (m) compare lengths order lengths 4 operations length</p>	<p>Mass, Capacity & Temperature compare mass measure mass (g) measure mass (kg) compare volume millilitre litres 4 operations (mass) 4 operations (volume) temperature</p>	
		Number	Problem Solving Skills	Measurement	Geometry	Statistics



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Summer	NC	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity Ask and answer questions about totalling and comparing categorical data	Pupils should count in fractions up to 10, starting from any number and using the $\frac{1}{2}$ and $\frac{2}{4}$ equivalence on the number line Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity Write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	Use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise) Order and arrange combinations of mathematical objects in patterns and sequences	Problem Solving & Consolidation ITAF Evidence	Compare and sequence intervals of time Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times Know the number of minutes in an hour and the number of hours in a day.
	Small Steps	Statistics make tally charts draw pictograms (1-1) interpret pictograms (1-1) draw pictograms (2,5,10) interpret pictograms (2,5,10) block diagrams	Fractions make equal parts recognize $\frac{1}{2}$ find $\frac{1}{2}$ recognize $\frac{1}{4}$ find $\frac{1}{4}$ recognize $\frac{1}{3}$ find $\frac{1}{3}$ unit fractions non-unit fractions $\frac{1}{2}$ and $\frac{2}{4}$ equivalence find $\frac{3}{4}$	Position & Direction describing movement describing turns making patterns		Time o'clock and half-past quarter past/quarter to telling to 5 mins hours and days find time durations compare durations
		Number	Problem Solving Skills	Measurement	Geometry	Statistics