



Manor Church of England Infant School Medium Term Planning: **Maths (Year 2)**  
Term: Spring

| Week     | Domain                             | Mental / Oral Objectives                   | Y2 Objectives  | Key Vocabulary           | Resources              |
|----------|------------------------------------|--|--|--------------------------|------------------------|
| Autumn 1 |                                    |  |  |                          |                        |
| 1        | Number and place value<br>3d shape | Counting in and back in 1s, 2s, 5s and 10s | <ul style="list-style-type: none"><li>• Count in 2's, 5's, 3's and 10's from any number forwards and backwards</li><li>• Recognise the place value of each digit in a two-digit number (tens, ones)</li><li>• Use place value and number facts to solve problems.</li><li>• Identify, represent and estimate numbers using different representations, including the number line.</li><li>• Compare and order numbers from 0 up to 100, use <math>&lt;</math>, <math>&gt;</math> and <math>=</math> signs</li><li>• Read and write numbers to at least 100 in numerals and words.</li><br/><li>• Identify and describe the properties 2-d shape, including the number of sides and symmetry in a vertical line.</li><li>• Identify 2-d shapes on the surface of 3-d shapes e.g. the circle on a cylinder</li><li>• Compare and sort common 2-d and 3-d shapes</li></ul> | Tens, ones, number names | Numicon, Dienes shapes |

|   |                      |  |   |   |  |
|---|----------------------|--|---|---|--|
|   |                      |  | <ul style="list-style-type: none"> <li>Identify and describe the properties 3-d shape, including the number of edges, vertices and faces.</li> </ul>  |   |  |
| 2 | Addition<br>3d shape |  | <ul style="list-style-type: none"> <li>Solve problems using addition and subtraction</li> <li>Add and subtract to 100 and beyond using a number line, concrete objects, pictorial representations, including those involving numbers, measures and quantities.</li> <li>Applying their knowledge of mental and written methods.</li> <li>Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100.</li> <li>Add a two—digit number and ones.</li> <li>Add a two digit number and tens.</li> <li>Adding three one-digit numbers.</li> <li>Show that addition of two numbers can be done in any order and subtraction of one number from another cannot.</li> <li>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.</li> <li>Identify and describe the properties 2-d shape, including the number of sides and symmetry in a vertical line.</li> <li>Identify 2-d shapes on the surface of 3-d shapes e.g. the circle on a cylinder</li> <li>Compare and sort common 2-d and 3-d shapes</li> </ul> | Tens, ones, number names, before, after, more than, less than | Numicon<br>Dienes<br>Numberlines<br>shapes |

|   |                     |  |  |   |  |
|---|---------------------|--|--|---|--|
|   |                     |  | <ul style="list-style-type: none"> <li>Identify and describe the properties 3-d shape, including the number of edges, vertices and faces.</li> </ul>   |   |  |
| 3 | Subtraction<br>Time |  | <ul style="list-style-type: none"> <li>Solve problems using addition and subtraction</li> <li>Add and subtract to 100 and beyond using a number line, concrete objects, pictorial representations, including those involving numbers, measures and quantities.</li> <li>Applying their knowledge of mental and written methods.</li> <li>Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100.</li> <li>Add a two—digit number and ones.</li> <li>Add a two digit number and tens.</li> <li>Adding three one-digit numbers.</li> <li>Show that addition of two numbers can be done in any order and subtraction of one number from another cannot.</li> <li>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.</li> <li>Read and find times on a clock showing 'o' clock, half past, quarter past and to and draw the hands on a clock face to show these times.</li> <li>Compare and sequence intervals of time.</li> <li>Know the number of minutes in an hour and the number of hours in a day.</li> <li>Tell and write the time to 5 minutes.</li> </ul> | Addition, plus, more than, bigger, equals | Numicon<br>Dienes<br>Numberlines<br>clocks |

|   |                         |  |   |   |  |
|---|-------------------------|--|---|---|--|
| 4 | Multiplication<br>Time  |  | <ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.</li> <li>Show that multiplication of two numbers can be done in any order.</li> <li>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods.</li> <li>Calculate mathematical statements for multiplication using the x and = signs use the ÷.</li> <li>Show that multiplication of two numbers can be done in any order and division of one number by another cannot.</li> <li>Read and find times on a clock showing 'o' clock, half past, quarter past and to and draw the hands on a clock face to show these times.</li> <li>Compare and sequence intervals of time.</li> <li>Know the number of minutes in an hour and the number of hours in a day.</li> <li>Tell and write the time to 5 minutes.</li> </ul> | Addition, plus, more than, bigger, equals | Numicon<br>Dienes<br>Numberlines<br>clocks |
| 5 | Division<br>Temperature |  | <ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.</li> <li>Show that multiplication of two numbers can be done in any order.</li> <li>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods.</li> </ul>   | Subtract, less than, smaller              | Numicon<br>Dienes<br>Numberlines<br>rulers |

|   |                           |  |  |                              |  |
|---|---------------------------|--|--|------------------------------|--|
|   |                           |  | <ul style="list-style-type: none"> <li>• Calculate mathematical statements for multiplication using the x and = signs use the ÷.</li> <li>• Show that multiplication of two numbers can be done in any order and division of one number by another cannot.</li> <li>• Compare and order lengths, mass and capacity record the results using &lt;, &gt; and =</li> <li>• Choose and use appropriate standard units to estimate and measure length and height in cm/m, mass kg/g, temperature 'C and capacity litres/ml to the nearest appropriate unit, using rulers scales thermometers and measuring vessels..</li> </ul> |                              |  |
| 6 | Fractions<br>Temperature  |  | <ul style="list-style-type: none"> <li>• Recognise, find and name 1/2, 1/4, 1/3, 2/4 and 3/4 of length, shape and number.</li> <li>• Write simple fractions e.g. 1/2 of 6 is 3 and recognise the equivalence of 2/4 and 1/2.</li> <li>• Compare and order lengths, mass and capacity record the results using &lt;, &gt; and =</li> <li>• Choose and use appropriate standard units to estimate and measure length and height in cm/m, mass kg/g, temperature 'C and capacity litres/ml to the nearest appropriate unit, using rulers scales thermometers and measuring vessels.</li> </ul>                                | Subtract, less than, smaller | Numicon<br>Dienes<br>Numberlines<br>rulers |
| 7 | Money<br>Data<br>handling |  | <ul style="list-style-type: none"> <li>• Use £ and p notation to record money.</li> <li>• Find different combinations of coins that equal the same amount of money to 50p.</li> <li>• Solve simple problems in a practical context involving addition and subtraction of money to £1, including giving change.</li> </ul>  | Coin names, change           | Numicon<br>Dienes<br>Numberlines           |

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|----------|----------------------|--|---|---|----------------------------------|
|          |                      |  | <ul style="list-style-type: none"> <li>• Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.</li> <li>• Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.</li> <li>• Ask and answer questions about totalling and comparing categorical data.</li> </ul>  |   |                                  |
| Autumn 2 |                      |  |   |   |                                  |
| 1        | Addition<br>2d shape | Counting in and back in 1s, 2s, 5s and 10s<br>2 times tables | <ul style="list-style-type: none"> <li>• Solve problems using addition and subtraction</li> <li>• Add and subtract to 100 and beyond using a number line, concrete objects, pictorial representations, including those involving numbers, measures and quantities.</li> <li>• Applying their knowledge of mental and written methods.</li> <li>• Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100.</li> <li>• Add a two—digit number and ones.</li> <li>• Add a two digit number and tens.</li> <li>• Adding three one-digit numbers.</li> <li>• Show that addition of two numbers can be done in any order and subtraction of one number from another cannot.</li> <li>• Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.</li> </ul> | Addition, plus, more than, bigger, equals | Numicon<br>Dienes<br>Numberlines |

|   |                         |  |   |                              |                                  |
|---|-------------------------|--|---|------------------------------|----------------------------------|
|   |                         |  | <ul style="list-style-type: none"> <li>Identify and describe the properties 2-d shape, including the number of sides and symmetry in a vertical line.</li> <li>Identify 2-d shapes on the surface of 3-d shapes e.g. the circle on a cylinder</li> <li>Compare and sort common 2-d and 3-d shapes</li> <li>Identify and describe the properties 3-d shape, including the number of edges, vertices and faces.</li> </ul>  |                              |                                  |
| 2 | Subtraction<br>3d shape |  | <ul style="list-style-type: none"> <li>Solve problems using addition and subtraction</li> <li>Add and subtract to 100 and beyond using a number line, concrete objects, pictorial representations, including those involving numbers, measures and quantities.</li> <li>Applying their knowledge of mental and written methods.</li> <li>Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100.</li> <li>Add a two—digit number and ones.</li> <li>Add a two digit number and tens.</li> <li>Adding three one-digit numbers.</li> <li>Show that addition of two numbers can be done in any order and subtraction of one number from another cannot.</li> <li>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.</li> </ul> | Subtract, less than, smaller | Numicon<br>Dienes<br>Numberlines |

|   |                     |  |   |                   |                                  |
|---|---------------------|--|---|-------------------|----------------------------------|
|   |                     |  | <ul style="list-style-type: none"> <li>• Identify and describe the properties 2-d shape, including the number of sides and symmetry in a vertical line.</li> <li>• Identify 2-d shapes on the surface of 3-d shapes e.g. the circle on a cylinder</li> <li>• Compare and sort common 2-d and 3-d shapes</li> <li>• Identify and describe the properties 3-d shape, including the number of edges, vertices and faces.</li> </ul>  |                   |                                  |
| 3 | Multiplication Time |  | <ul style="list-style-type: none"> <li>• Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.</li> <li>• Show that multiplication of two numbers can be done in any order.</li> <li>• Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods.</li> <li>• Calculate mathematical statements for multiplication using the x and = signs use the ÷.</li> <li>• Show that multiplication of two numbers can be done in any order and division of one number by another cannot.</li> <li>• Read and find times on a clock showing 'o' clock, half past, quarter past and to and draw the hands on a clock face to show these times.</li> <li>• Compare and sequence intervals of time.</li> </ul> | Lots of, multiply | Numicon<br>Dienes<br>Numberlines |

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|---|-----------------------|--|---|--------------------------|---|
|   |                       |  | <ul style="list-style-type: none"> <li>• Know the number of minutes in an hour and the number of hours in a day.</li> <li>• Tell and write the time to 5 minutes.</li> </ul>  |                          |   |
| 4 | Division<br>Time      |  | <ul style="list-style-type: none"> <li>• Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.</li> <li>• Show that multiplication of two numbers can be done in any order.</li> <li>• Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods.</li> <li>• Calculate mathematical statements for multiplication using the x and = signs use the ÷.</li> <li>• Show that multiplication of two numbers can be done in any order and division of one number by another cannot.</li> <li>• Read and find times on a clock showing 'o' clock, half past, quarter past and to and draw the hands on a clock face to show these times.</li> <li>• Compare and sequence intervals of time.</li> <li>• Know the number of minutes in an hour and the number of hours in a day.</li> <li>• Tell and write the time to 5 minutes.</li> </ul> | Part, whole, denominator | Numicon<br>Dienes<br>Numberlines<br>objects |
| 5 | Fractions<br>Position |  | <ul style="list-style-type: none"> <li>• Recognise, find and name <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{1}{3}</math>, <math>\frac{2}{4}</math> and <math>\frac{3}{4}</math> of length, shape and number.</li> <li>• Write simple fractions e.g. <math>\frac{1}{2}</math> of 6 is 3 and recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math>.</li> </ul>   | Part, whole, denominator | Numicon<br>Dienes<br>Numberlines<br>objects |

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|   |   |  | <ul style="list-style-type: none"> <li>Order and arrange combinations of mathematical objects in patterns.</li> </ul> <p>Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line.</p> <p>Distinguish between rotation as a turn and in terms of right angles for quarter, half and <math>\frac{3}{4}</math> turns (clockwise and anti-clockwise).</p>   |   |                                  |
| 6 | Money<br>Poition                              |  | <ul style="list-style-type: none"> <li>Use £ and p notation to record money.</li> <li>Find different combinations of coins that equal the same amount of money to 50p.</li> <li>Solve simple problems in a practical context involving addition and subtraction of money to £1, including giving change.</li> </ul> <ul style="list-style-type: none"> <li>Order and arrange combinations of mathematical objects in patterns.</li> </ul> <p>Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line.</p> <p>Distinguish between rotation as a turn and in terms of right angles for quarter, half and <math>\frac{3}{4}</math> turns (clockwise and anti-clockwise).</p> | Coin names, change  | Numicon<br>Dienes<br>Numberlines |
| 7 | Number and<br>place value<br>Data<br>handling |  | <ul style="list-style-type: none"> <li>Count in 2's, 5's, 3's and 10's from any number forwards and backwards</li> <li>Recognise the place value of each digit in a two-digit number (tens, ones)</li> <li>Use place value and number facts to solve problems.</li> <li>Identify, represent and estimate numbers using different representations, including the number line.</li> </ul>   | Tens, ones, number names, before, after, more than, less than | Numicon<br>Dienes<br>Numberlines |

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  | <ul style="list-style-type: none"><li>• Compare and order numbers from 0 up to 100, use <math>&lt;</math>, <math>&gt;</math> and <math>=</math> signs</li><li>• Read and write numbers to at least 100 in numerals and words.</li><li>• Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.</li><li>• Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.</li><li>• Ask and answer questions about totalling and comparing categorical data.</li></ul> |  |  |
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