



# Mathematics Long-Term Plan 26-27

St James Church of England Primary School

|                  | <u>Cycle 1</u><br>[7 weeks]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>Cycle 2</u><br>[7 weeks]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>Cycle 3</u><br>[7 weeks]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u>Cycle 4</u><br>[7 weeks]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>Cycle 5</u><br>[7 weeks]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                |
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| <u>Nursery</u>   | <p>2-3 Years: Participate in finger rhymes. - React to changes in group size (2-3 items). - Begin to say numbers in sequence with guidance (e.g. 1-2-3). - Compare groups using "more", "same". - Count up to 3 objects with help.</p> <p>3-4 Years - Subitise up to 3 objects (recognise groups without counting). - Recite numbers in order up to 5. - Understand the cardinal principle (the last number tells you the total). - Show finger numbers up to 5. - Link numerals to amounts (show the correct number of objects to match the numeral).</p> <p><u>Colours</u><br/>(2 weeks)<br/><u>Matching</u><br/>(2 weeks)<br/><u>Sorting</u><br/>(2 weeks)<br/><u>Number 1</u><br/>(1 week)</p> | <p>2-3 years: Enjoys number rhymes and begins to notice when amounts change as objects are added or removed. Counts up to 5 objects with support and uses words such as more and less.</p> <p>3-4 years: Recognises small groups of up to 3 without counting and recites numbers to 5. Understands that the last number counted shows how many there are, can show numbers using fingers, and matches numerals to the correct number of objects.</p> <p><u>Numerals 2 - counting and subitising</u><br/>(2 weeks)<br/><u>Patterns</u><br/>(2 weeks)<br/><u>Numerals 3 - Counting and subitising</u><br/>(2 weeks)<br/><u>Numerals 4 - Counting and subitising</u><br/>(1 week)</p>                                                 | <p>2-3 years: Enjoys number rhymes and begins to notice when amounts change as objects are added or removed. Counts up to 5 objects with support.</p> <p>3-4 years: Begins to describe familiar routes and compares objects by size, length, weight, and capacity.</p> <p><u>Numerals 4 - Composition</u><br/>(1 week)<br/><u>Numerals 5- Counting and Subitising</u><br/>(1 week)<br/><u>Numerals 5 - Composition</u><br/>(1 week)<br/><u>Consolidation Numbers 1-5</u><br/>(1 week)<br/><u>Numerals 6</u><br/>(1 week)<br/><u>Height and Length</u><br/>(1 week)<br/><u>Mass</u><br/>(1 week).</p>                                                                                      | <p>2-3 years: Recognises and names shapes. Combines shapes to make new shapes and uses spatial words such as up, down, and beside during play.</p> <p>3-4 years: Chooses suitable shapes for different tasks and combines shapes to create structures. Uses a wider range of spatial words, such as around, across, and underneath.</p> <p><u>Capacity</u><br/>(1 week)<br/><u>Sequencing</u><br/>(1 week)<br/><u>Positional Language</u><br/>(1 week)<br/><u>More than/Fewer</u><br/>(1 week)<br/><u>2D Shape</u><br/>(1 week)<br/><u>3D Shape</u><br/>(1 week)</p>                                                                                                                              | <p>2-3 years: Joins in with simple counting rhymes and begins to count to 10 with support, sometimes missing numbers. Begins to understand and use the ideas of more and less.</p> <p>3-4 years: Recognises groups of up to 3 without counting and confidently counts beyond 5. Understands that the last number counted tells how many there are. Shows numbers up to 5 using fingers, recognises familiar numerals, and matches numbers to the correct amounts up to 5.</p> <p><u>Number Composition</u><br/>(1 week)<br/><u>What comes after?</u><br/>(1 week)<br/><u>What comes before?</u><br/>(1 week)<br/><u>Numbers to 5</u><br/>(1 week)<br/><u>Consolidation</u><br/>(2 weeks)</p>                                                                                                             |                                                                                                                                                                                |
| <u>Reception</u> | <p><u>Subitising:</u></p> <ul style="list-style-type: none"><li>Subitise within 3</li><li>Practise using their fingers to represent quantities which they can subitise</li></ul> <p><u>Cardinality, Ordinality and Counting</u></p> <ul style="list-style-type: none"><li>Relate the counting sequence to cardinality, seeing that the last number spoken gives the number in the entire set</li><li>have a wide range of opportunities to develop their knowledge of the counting sequence, including through rhyme and song</li><li>have a wide range of opportunities to develop 1:1 correspondence, including by coordinating movement and counting</li></ul>                                  | <p><u>Subitising:</u></p> <ul style="list-style-type: none"><li>Subitise within 5, perceptually and conceptually, depending on the arrangements</li></ul> <p><u>Cardinality, Ordinality and Counting</u></p> <ul style="list-style-type: none"><li>Continue to develop their counting skills</li><li>Explore the cardinality of 5, linking this to dice patterns and 5 fingers on 1 hand</li><li>Begin to count beyond 5</li><li>Begin to recognise numerals, relating these to quantities they can subitise and count</li></ul> <p><u>Composition:</u></p> <ul style="list-style-type: none"><li>Explore the concept of 'wholes' and 'parts' by looking at a range of objects that are composed of parts, some of which</li></ul> | <p><u>Subitising:</u></p> <ul style="list-style-type: none"><li>Increase confidence in subitising by continuing to explore patterns within 5, including structured and random arrangements</li><li>Explore a range of patterns made by some numbers greater than 5, including structured patterns in which 5 is a clear part</li><li>experience patterns which show a small group and '1 more'</li></ul> <p><u>Cardinality, Ordinality and Counting</u></p> <ul style="list-style-type: none"><li>Continue to develop verbal counting to 20 and beyond</li><li>Continue to link counting to cardinality, including using their fingers to represent quantities between 5 and 10</li></ul> | <p><u>Subitising:</u></p> <ul style="list-style-type: none"><li>Explore symmetrical patterns, in which each side is a familiar pattern, linking this to 'doubles'</li></ul> <p><u>Cardinality, Ordinality and Counting</u></p> <ul style="list-style-type: none"><li>Continue to consolidate their understanding of cardinality, working with larger numbers within 10</li><li>become more familiar with the counting pattern beyond 20.</li></ul> <p><u>Composition:</u></p> <ul style="list-style-type: none"><li>Explore the composition of odd and even numbers, looking at the 'shape' of these numbers</li><li>Begin to link even numbers to doubles</li><li>Begin to explore the</li></ul> | <p><u>Subitising:</u></p> <ul style="list-style-type: none"><li>Continue to practise increasingly familiar subitising arrangements, including those which expose '1 more' or 'doubles' patterns</li><li>Use subitising skills to enable them to identify when patterns show the same number but in a different arrangement, or when patterns are similar but have a different number</li></ul> <p><u>Cardinality, Ordinality and Counting</u></p> <ul style="list-style-type: none"><li>Continue to develop verbal counting to 20 and beyond, including counting from different starting numbers</li><li>Continue to develop confidence and accuracy in both verbal and object counting.</li></ul> <p><u>Composition:</u></p> <ul style="list-style-type: none"><li>Explore the composition of</li></ul> | <p>In this half-term, the children will consolidate their understanding of concepts previously taught through working in a variety of contexts and with different numbers.</p> |

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|                      | <p><u>Compositions</u></p> <ul style="list-style-type: none"><li>• Compose their own collections within 4.</li></ul> <p><u>Comparisons</u></p> <ul style="list-style-type: none"><li>• Use the language of comparison, including 'more than' and 'fewer than'</li><li>• Compare sets 'just by looking'</li></ul> | <p>can be taken apart and some of which cannot</p> <p><u>Comparisons</u></p> <ul style="list-style-type: none"><li>• Compare sets by matching, seeing that when every object in a set can be matched to one in the other set, they contain the same number and are equal amounts</li></ul> | <ul style="list-style-type: none"><li>• Order numbers, linking cardinal and ordinal representations of number.</li></ul> <p><u>Compositions</u></p> <ul style="list-style-type: none"><li>• Explore the composition of 6, linking this to familiar patterns, including symmetrical patterns</li><li>• begin to see that numbers within 10 can be composed of '5 and a bit'</li></ul> <p><u>Comparisons</u></p> <ul style="list-style-type: none"><li>• Continue to compare sets using the language of comparison, and play games which involve comparing sets</li></ul> | <p>composition of numbers within 10.</p> <p><u>Comparisons</u></p> <ul style="list-style-type: none"><li>• Compare numbers, reasoning about which is more, using both an understanding of the 'howmany-ness' of a number, and its position in the number system.</li></ul> | <p>10.</p> <p><u>Comparisons</u></p> <ul style="list-style-type: none"><li>• Order sets of objects, linking this to their understanding of the ordinal number system.</li></ul> |                                                                                         |
|                      | <p><u>Comparing and ordering</u></p> <p><u>Time</u></p>                                                                                                                                                                                                                                                          | <p><u>2D Shapes</u></p> <p><u>Positional language</u></p>                                                                                                                                                                                                                                  | <p><u>Measuring length and height</u></p> <p><u>Capacity</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p><u>2D Shapes</u></p> <p><u>3D Shapes</u></p>                                                                                                                                                                                                                            | <p><u>Mass</u></p> <p><u>Money</u></p>                                                                                                                                          | <p><u>Volume and capacity</u></p>                                                       |
| <p><u>Year 1</u></p> | <p>Maths ELG Retrieval<br/>(1 week).</p>                                                                                                                                                                                                                                                                         | <p>Chapter 4 – Subtraction Within 10.<br/>Number of Scheme Lessons – 6 (2 weeks).</p>                                                                                                                                                                                                      | <p>Chapter 7 – Addition and Subtraction Within 20 (Part 2)<br/>Number of Scheme Lessons – 7 (1 week).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Chapter 12 – Addition and Subtraction Word Prob (Part 2).<br/>Number of Scheme Lessons – 6 (1 week).</p>                                                                                                                                                                | <p>Chapter 16 – Time (Part 2).<br/>Number of Scheme Lessons – 6 (1 week).</p>                                                                                                   |                                                                                         |
|                      | <p>Chapter 1 – Counting to 10.<br/>Number of Scheme Lessons – 7 (3 weeks).</p>                                                                                                                                                                                                                                   | <p>Chapter 5 – Positions<br/>Number of Scheme Lessons – 3 (1 week).</p>                                                                                                                                                                                                                    | <p>Chapter 8 – Shapes and Patterns.<br/>Number of Scheme Lessons – 4 (2 weeks).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>Chapter 13 – Division<br/>Number of Scheme Lessons – 2 (1 week).</p>                                                                                                                                                                                                    | <p>Chapter 17– Money<br/>Number of Scheme Lessons – 2 (1 week).</p>                                                                                                             |                                                                                         |
|                      | <p>Chapter 2 – Number Bonds<br/>Number of Scheme Lessons – 2 (1 week).</p>                                                                                                                                                                                                                                       | <p>Chapter 6 – Numbers to 20.<br/>Number of Scheme Lessons – 5 (2 weeks).</p>                                                                                                                                                                                                              | <p>Chapter 9 – Length and Height<br/>Number of Scheme Lessons – 4 (1 week).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>Chapter 14 – Fractions<br/>Number of Scheme Lessons – 3 (2 weeks).</p>                                                                                                                                                                                                  | <p>Chapter 18 – Volume and Capacity<br/>Number of Scheme Lessons – 3 (1 week).</p>                                                                                              |                                                                                         |
|                      | <p>Chapter 3 – Addition Within 10.<br/>Number of Scheme Lessons – 5 (2 weeks).</p>                                                                                                                                                                                                                               | <p>Chapter 7 – Addition and Subtraction Within 20 (Part 1)<br/>Number of Scheme Lessons – 7 (2 weeks).</p>                                                                                                                                                                                 | <p>Chapter 10 – Numbers to 40.<br/>Number of Scheme Lessons – 6 (2 weeks).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p>Chapter 15: Numbers to 100<br/>Number of Scheme Lessons – 4 (2 week).</p>                                                                                                                                                                                               | <p>Chapter 19 – Mass<br/>Number of Scheme Lessons – 3 (2 weeks).</p>                                                                                                            |                                                                                         |
|                      |                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                            | <p>Chapter 11 – Addition and Subtraction Word Prob (Part 1).<br/>Number of Scheme Lessons – 6 (1 week).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>Chapter 16 – Time (Part 1).<br/>Number of Scheme Lessons – 6 (1 week).</p>                                                                                                                                                                                              | <p>Chapter 20 – Space<br/>Number of Scheme Lessons – 3 (1 week).</p>                                                                                                            |                                                                                         |
|                      | <p><u>Times Table Coverage (Delivered through Multiplication Strategy)</u></p> <p><u>Mastering Number</u></p>                                                                                                                                                                                                    | <p><u>Doubling</u></p>                                                                                                                                                                                                                                                                     | <p><u>Counting in 2's</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p><u>Counting in 10's</u></p>                                                                                                                                                                                                                                             | <p><u>Counting in 5's</u></p>                                                                                                                                                   | <p><u>Start with the oneness of the 1 Times Table then start the 2 Times Tables</u></p> |

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| <div>Year 2</div> <div>Times Table Coverage<br/>(Delivered through<br/>Multiplication<br/>Strategy)</div> <div>Mastering Number</div> | Chapter 1 – Numbers to 100<br>Number of Scheme Lessons – 6 (2 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Chapter 3 – Multiplication 2s, 5s and 10s Part 2.<br>Number of Scheme Lessons – 10 (2 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Chapter 5 – Length<br>Number of Scheme Lessons – 8 (2 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Chapter 13 – Fractions Part 2<br>Number of Scheme Lessons – 13 (1 week).             | Chapter 12 – 3D Shapes<br>Number of Scheme Lessons – 6 (2 weeks).           |
|                                                                                                                                       | Chapter 2 – Addition and Subtraction<br>Number of Scheme Lessons – 14 (4 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Chapter 4 – Multiplication/Division of 2,5,10<br>Number of Scheme Lessons – 8 (3 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Chapter 6 – Mass<br>Number of Scheme Lessons – 7 (2 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Chapter 10– Money<br>Number of Scheme Lessons – 10 (2 weeks).<br>1 week).            | Chapter 14 – Time<br>Number of Scheme Lessons – 9 (3 weeks).                |
|                                                                                                                                       | Chapter 3 – Multiplication 2s, 5s and 10s Part 1.<br>Number of Scheme Lessons – 10 (1 week).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Chapter 11 – 2D Shapes.<br>Number of Scheme Lessons – 10 (2 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Chapter 13 – Fractions Part 1<br>Number of Scheme Lessons – 13 (3 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Chapter 7 – Temperature<br>Number of Scheme Lessons – 2 (1 week).                    | Chapter 15 – Volume<br>Number of Scheme Lessons – 7 (2 weeks).              |
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|                                                                                                                                       | 2 Times Tables                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5 Times Tables                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10 Times Table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2 Times Tables                                                                       | 5 and 10 Times Tables                                                       |
|                                                                                                                                       | <ul style="list-style-type: none"><li>Review the composition of the numbers 6 to 9 as ‘5 and a bit’</li><li>Compare numbers using the language of comparison and use the symbols &lt; &gt; =</li><li>Review the structure of even numbers (including exploring how even numbers can be composed of two odd parts or two even parts) and the composition of each of 6, 8 and 10</li><li>Review the structure of odd numbers (including exploring how odd numbers can be composed of one odd part and one even part) and the composition of each of 7 and 9.</li><li>Consolidate their understanding of the umbers 10 and 20 as ‘10 and a bit’</li><li>consolidate their understanding of the linear number system to 20 and reason about midpoints</li></ul> | <ul style="list-style-type: none"><li>explore how the numbers 6 to 9 can be doubled using the ‘5 and a bit’ and ‘10 and a bit’ structure</li><li>Use doubles to calculate near doubles</li><li>Use bonds of 10 to reason about bonds of 20, in which the given addend is greater than 10</li><li>Use known number bonds within 10 to calculate within 20, working within the 10-boundary, use their knowledge of bonds of 10 to find three addends that sum to 10</li><li>Use their knowledge of the composition of numbers within 20 to add and subtract across the 10-boundary</li><li>Use their understanding of the linear number system to 10 to position multiples of 10 on a 0 - 100 number line and reason about midpoints</li></ul> | <ul style="list-style-type: none"><li>Continue to explore a range of strategies to subtract across the 10-boundary</li><li>Review bonds of 20 in which the given addend is greater than 10, and reason about bonds of 20, in which the given addend is less than 10</li><li>Practise previously explored strategies to support their reasoning about inequalities and equations</li><li>Review doubles and near doubles and transform additions in which two addends are adjacent odd/ even numbers into doubles, consolidate previously taught facts and strategies through continued, varied practice</li></ul>                                                      |                                                                                      |                                                                             |
| <div>Year 3</div> <div>Times Table Coverage<br/>(Delivered through<br/>Multiplication<br/>Strategy)</div> <div>Mastering Number</div> | Chapter 1 – Numbers to 1000<br>Number of Scheme Lessons – 8 (2 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Chapter 3 – Multiplication and Division<br>Number of Scheme Lessons – 16 (4 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Chapter 11 – Fractions<br>Number of Scheme Lessons – 15 (4 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Chapter 7 – Volume<br>Number of Scheme Lessons –10 (2 weeks).                        | Chapter 12 –Angles Part 2<br>Number of Scheme Lessons – 6 (1 weeks)         |
|                                                                                                                                       | Chapter 2 – Addition and Subtraction<br>Number of Scheme Lessons – 22 (5 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Chapter 4 – Further Multiplication<br>Number of Scheme Lessons – 12 (3 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Chapter 5 – Length<br>Number of Scheme Lessons – 11 (2 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Chapter 8 – Money<br>Number of Scheme Lessons – 10 (3 weeks).                        | Chapter 13 – Lines and Shapes<br>Number of Scheme Lessons – 5 (1 week).     |
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|                                                                                                                                       | 3 Times table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4 Times table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8 Times Table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Revise 2, 5 and 10<br>Times Tables                                                   | Revise 3, 4, and 8 Times table                                              |
|                                                                                                                                       | <ul style="list-style-type: none"><li>Use the language of ‘part’ and ‘whole’ when describing the numbers in a part-part-whole diagram</li><li>Secure the language related to addition and subtraction equations: addend; sum; minuend; subtrahend; difference and relate this to the whole and the parts</li><li>Write the full set of 8 addition and subtraction equations to match a part-part-whole diagram or bar model</li><li>Vary the position of the equals symbol, understanding this as a symbol of equality</li><li>Compare part-part-whole diagrams and bar models, understanding that both of these represent the additive relationship between the whole and the parts</li></ul>                                                              | <ul style="list-style-type: none"><li>Explore the addition table of facts within 10</li><li>Secure their understanding of the composition of each of the numbers 6 to 10</li><li>Connect the composition of 6 to 10 with both addition and subtraction facts</li><li>Practise recalling sums and differences to develop automaticity within 10</li><li>Apply additive facts within 10 to addition and subtraction calculations to 100, working within 10s boundaries</li><li>Apply additive facts within 10 to addition and subtraction calculations to 100, working with multiples of 10</li></ul>                                                                                                                                          | <ul style="list-style-type: none"><li>Explore the addition table of facts across 10</li><li>Secure their understanding of the composition of the numbers 11 to 19 as ‘10 and a bit’ and apply this to addition and subtraction calculations</li><li>Use the ‘5 and a bit’ structure to calculate doubles to double 10</li><li>Relate doubles to halves</li><li>Practise to develop automaticity with doubles facts, and use these to subtract when the minuend is double the value of the subtrahend</li><li>Calculate near doubles by doubling the smaller addend and adding 1</li><li>Calculate near doubles by adding the larger addend and subtracting 1</li></ul> |                                                                                      |                                                                             |

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|                                                                                                                          | <ul style="list-style-type: none"> <li>Rearrange equations to find missing sums, addends, differences, subtrahends or minuends</li> <li>Secure their understanding that addition is commutative</li> <li>Secure their understanding of the composition of 3, 4 and 5, working systematically to find all the ways that these numbers can be composed</li> <li>Explore the relationship between the addends in a set of facts with the same sum, identifying and explaining the '1 more/1 less' pattern</li> <li>Apply knowledge of the composition of 3, 4 and 5 to identify when a pair of addends has a given sum</li> <li>Identify missing addends in addition equations</li> <li>Identify the difference in subtraction equations, relating this to a missing part/missing addend</li> <li>Practise recalling addition and subtraction facts within 5 to develop automaticity. Explore the addition table of facts within 10</li> <li>Practise recalling previously-learned facts (within 5)</li> <li>Identify odd and even numbers</li> </ul> |                                                                                                    | <ul style="list-style-type: none"> <li>Apply a range of generalisation to secure additive facts within 10, then within 20, including: <ul style="list-style-type: none"> <li>adding 1 gives 1 more, subtracting 1 gives 1 less</li> <li>consecutive numbers have a difference of 1</li> <li>adding 2 to an even number gives the next even number</li> <li>subtracting 2 from an even number gives the previous even number</li> <li>adding 2 to an odd number gives the next odd number</li> <li>subtracting 2 from an odd number gives the previous odd number</li> <li>consecutive even numbers have a difference of 2</li> <li>consecutive odd numbers have a difference of 2</li> <li>when zero is an addend, the sum is equal to the other addend</li> <li>when zero is the subtrahend, the difference is equal to the minuend</li> </ul> </li> </ul> |                                                                                 | <ul style="list-style-type: none"> <li>Transform addition calculations in which the addends are a pair of adjacent odd numbers, or a pair of adjacent even numbers, into a double (e.g. <math>7 + 5 = 6 + 6</math>)</li> <li>Practise adding three 1-digit numbers when 2 of the addends sum to 10</li> <li>Develop fluency with the strategy of 'making 10' for addition calculations across 10 (adding through 10)</li> <li>Add 5 to each of 6, 7, 8, and 9, by partitioning the larger addend into '5 and a bit' and 'making 10' with <math>5 + 5</math>.</li> <li>Consider different addition strategies for the same calculations, e.g. <math>7 + 5 = 7 + 3 + 2</math> (addition through 10) or <math>7 + 5 = 6 + 6</math> (transforming a pair of adjacent odd numbers into a double)</li> <li>Identify the subtraction facts which relate to addition facts across 10</li> <li>Subtract by identifying missing addends</li> <li>Develop fluency with the strategy of 'subtracting through 10' by partitioning the subtrahend into two parts and bridging back through 10</li> <li>Develop fluency with the strategy of 'subtracting from 10' by partitioning the minuend into 10 and a bit and subtracting from 10</li> <li>Check subtraction calculations by applying understanding of the additive relationship (checking that the sum of the subtrahend and difference is equal to the minuend)</li> <li>Compare different subtraction strategies and consider which may be more efficient given the numbers in a calculation</li> <li>Use knowledge of doubles to subtract when the minuend is double the value of the subtrahend</li> </ul> |
| <p><u>Year 4</u></p> <p>Times Table Coverage<br/>(Delivered through Multiplication Strategy)</p> <p>Mastering Number</p> | Chapter 1 – Numbers to 10,000<br>Number of Scheme Lessons – 13 (4 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Chapter 3 – Multiplication and Division<br>Number of Scheme Lessons – 19 (4 weeks).                | Chapter 4 – Further Multiplication Part 2<br>Number of Scheme Lessons – 18 (1 week).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Chapter 8 – Decimals Part 2<br>Number of Scheme Lessons – 9 (1 week).           | Chapter 11 – Area and Perimeter of Figures<br>Number of Scheme Lessons – 7 (1 week).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                          | Chapter 2 – Addition and Subtraction Within 10,000<br>Number of Scheme Lessons – 16 (3 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Chapter 4 – Further Multiplication Part 1<br>Number of Scheme Lessons – 18 (3 weeks).              | Chapter 5 – Graphs<br>Number of Scheme Lessons – 5 (1 week).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Chapter 7 – Time<br>Number of Scheme Lessons – 6 (2 weeks).                     | Chapter 12 – Geometry<br>Number of Scheme Lessons – 9 (3 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|                                                                                                                          | 6 Times table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7 Times table                                                                                      | 9 Times table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12 Times table                                                                  | 11 Times table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                          | <ul style="list-style-type: none"> <li>Consider 'many as 1' – seeing that a 'unit' can represent more than 1</li> <li>Sort and classify factors and products using multiplicative number sense</li> <li>recap doubles</li> <li>recap <math>\times 10</math> and <math>\times 5</math> (connect to halving and doubling)</li> <li>explore square numbers</li> <li>use the distributive property to explore the facts in the 11 and 12 times table • use the distributive property to explore the facts in the 9 times table</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                    | <ul style="list-style-type: none"> <li>sort and classify factors and products using multiplicative number sense</li> <li>practise retrieving multiplication facts using the oral pattern</li> <li>know all the core multiplication facts and those related to the 11 and 12 times table</li> <li>represent the structure of a maths story.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                 | <ul style="list-style-type: none"> <li>practise retrieving multiplication facts using the oral pattern</li> <li>sort and classify factors and products using multiplicative number sense</li> <li>connect multiplicative contexts to writing and interpreting equations and connect multiplication equations, and multiplication equations with a missing factor, to division, knowing that the product in a multiplication equation is equivalent to the dividend in the corresponding division equation</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p><u>Year 5</u></p>                                                                                                     | Chapter 1 – Numbers to 1,000,000<br>Number of Scheme Lessons – 12 (4 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Chapter 3 – Whole Numbers: Multiplication and Division<br>Number of Scheme Lessons – 19 (6 weeks). | Chapter 5 – Graphs<br>Number of Scheme Lessons – 7 (2 weeks)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Chapter 7 – Decimals<br>Number of Scheme Lessons – 15 (3,5 weeks)               | Chapter 10 – Position and Movement<br>Number of Scheme Lessons – 5 (1 week)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                          | Chapter 2 – Whole Numbers: Addition and Subtraction<br>Number of Scheme Lessons – 10 (3 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Chapter 4 – Whole Numbers: Word Problems<br>Number of Scheme Lessons – 4 (1 week)                  | Chapter 6 – Fractions<br>Number of Scheme Lessons – 18 (5 weeks)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Chapter 8 – Percentages<br>Number of Scheme Lessons – 3 (1,5 week)              | Chapter 11 – Measurements<br>Number of Scheme Lessons – 9 (3 weeks)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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| <p><i>Times Table Coverage<br/>(Delivered through<br/>Multiplication<br/>Strategy)</i></p> <p><i>Mastering Number</i></p>                      | Chapter 14 – Roman Numerals<br>Number of Scheme Lessons – 2 (1 week)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Chapter 9 – Geometry<br>Number of Scheme Lessons – 12 (2 weeks)           | Chapter 12 –Area and Perimeter<br>Number of Scheme Lessons – 5 (2 weeks)                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                           | Chapter 13 –Volume<br>Number of Scheme Lessons – 5 (1 weeks)                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                | 3, 6 and 9<br>Times Tables                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7, 11 and 12<br>Times Tables                                            | Revisit up to<br>12 x 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | All times tables<br>(supported by Question Level Analysis)                | All times tables<br>(supported by Question Level Analysis)                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                | <ul style="list-style-type: none"> <li>Continue to practise retrieving multiplication facts using their oral pattern and focus on those that are less secure</li> <li>Explore contexts where 1 is a factor</li> <li>Recap scaling by 10 and then apply to scaling by 100 (creating multiples of 10 and 100 - not looking at decimals)</li> <li>Applying scaling in the contexts of ratios</li> <li>Make links between multiplication and division expressions as well as equations in different multiplicative contexts</li> <li>Write an improper fraction and as a whole number such as <math>36 \div 6 = 6</math>. The dividend is a multiple of the divisor</li> <li>Find a unit fraction of a number to connect the known division fact to scaling down. The dividend is a multiple of the divisor</li> <li>Continue to explore multiplicative contexts.</li> </ul> |                                                                         | <ul style="list-style-type: none"> <li>Continue to practise retrieving multiplication facts using their oral pattern so that they know all the core multiplication facts</li> <li>Connect a multiplication and addition equation to a division equation with a remainder</li> <li>Develop multiplicative number sense through using knowledge of divisibility laws</li> <li>Sort and classify improper fractions into those that give a whole number quotient and those that do not</li> </ul> |                                                                           | <ul style="list-style-type: none"> <li>Continue to connect multiplicative contexts to writing and interpreting equations</li> <li>Apply scaling by, 10, 100, 1 10 or 1 100 to known facts</li> <li>Look at the multiplicative composition of number</li> <li>Explore expressions with three factors and use brackets, considering how the associative property and commutative property can be used to make calculations easier to solve</li> </ul> |
| <p><i>Year 6</i></p> <p><i>Times Table Coverage<br/>(Delivered through<br/>Multiplication<br/>Strategy)</i></p> <p><i>Mastering Number</i></p> | Chapter 1 – Numbers to 10,000,000<br>Number of Scheme Lessons – 5 (2 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Chapter 3 –Fractions Part 2<br>Number of Scheme Lessons – 15 (3 weeks). | Chapter 6 – Word Problems<br>Number of Scheme Lessons – 6 (1.5 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                         | Chapter 10 – Area and Perimeter<br>Number of Scheme Lessons – 4 (1 week). | Chapter 13 – Position and Movement<br>Number of Scheme Lessons – 10 (2 weeks).                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                | Chapter 2 – Four Operations<br>Number of Scheme Lessons – 22 (4 weeks)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Chapter 4 – Decimals<br>Number of Scheme Lessons – 14 (3 weeks)         | Chapter 7 – Percentages<br>Number of Scheme Lessons – 4 (1.5 weeks)                                                                                                                                                                                                                                                                                                                                                                                                                            | Chapter 11 –Volume<br>Number of Scheme Lessons – 5 (1 week).              | Chapter 14 –Graphs and Averages<br>Number of Scheme Lessons – 11 (3 weeks).                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                | Chapter 15– Negative Numbers<br>Number of Scheme Lessons – 2 (1 week).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Chapter 5 –Measure<br>Number of Scheme Lessons – 7 (1.5 weeks).         | Chapter 8 – Ratio<br>Number of Scheme Lessons – 10 (2 weeks)                                                                                                                                                                                                                                                                                                                                                                                                                                   | Chapter 12 – Geometry<br>Number of Scheme Lessons – 12 (4 weeks).         |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                | Chapter 3 –Fractions Part 1<br>Number of Scheme Lessons – 15 (1 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                         | Chapter 9 – Algebra<br>Number of Scheme Lessons – 10 (2 weeks).                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                | All times tables<br>(supported by Question Level Analysis)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | All times tables<br>(supported by Question Level Analysis)              | All times tables<br>(supported by Question Level Analysis)                                                                                                                                                                                                                                                                                                                                                                                                                                     | All times tables<br>(supported by Question Level Analysis)                | All times tables<br>(supported by Question Level Analysis)                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                | Review Y5 Mastering Number content ensuring children are ready to progress.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                         | Review Y5 Mastering Number content ensuring children are ready to progress.                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                           | Review Y5 Mastering Number content ensuring children are ready to progress.                                                                                                                                                                                                                                                                                                                                                                         |

Key Curriculum Features – Number of Scheme Stated Lessons (In addition to White Space):

| Year | Number of<br>Lessons — A | Number of<br>Lessons — B | Total Number<br>of Lessons | Number of White<br>Space Days | % of Yearly<br>White Space |
|------|--------------------------|--------------------------|----------------------------|-------------------------------|----------------------------|
| 1    | 43                       | 43                       | 86                         | 104                           | 55%                        |
| 2    | 60                       | 59                       | 119                        | 71                            | 37%                        |
| 3    | 83                       | 65                       | 148                        | 42                            | 22%                        |
| 4    | 90                       | 48                       | 138                        | 52                            | 27%                        |
| 5    | 70                       | 56                       | 126                        | 64                            | 34%                        |
| 6    | 69                       | 68                       | 137                        | 53                            | 28%                        |