# Priors Hall - a learning community Mastering Number Overview FS2 - Year 2 2023-2024 


'Ready for Learning, Ready for Life'

Kindness


Mastering Number: Overview of content - Reception

| Strand/ Half-term | Subitising | nd coun | Composition | Comparison |
| :---: | :---: | :---: | :---: | :---: |
| 1 <br> Children will: | - perceptually subitise within 3 <br> - identify sub-groups in larger arrangements <br> - create their own patterns for numbers within 4 <br> - practise using their fingers to represent quantities which they can subitise <br> - experience subitising in a range of contexts, including temporal patterns made by sounds. | - relate the counting sequence to cardinality, seeing that the last number spoken gives the number in the entire set <br> - have a wide range of opportunities to develop their knowledge of the counting sequence, including through rhyme and song <br> - have a wide range of opportunities to develop 1:1 correspondence, including by coordinating movement and counting <br> - have opportunities to develop an understanding that anything can be counted, including actions and sounds <br> - explore a range of strategies which support accurate counting. | - see that all numbers can be made of 1 s <br> - compose their own collections within 4. | - understand that sets can be compared according to a range of attributes, including by their numerosity <br> - use the language of comparison, including 'more than' and 'fewer than' <br> - compare sets 'just by looking'. |
| $2$ <br> Children will: | - continue from first half-term <br> - subitise within 5 , perceptually and conceptually, depending on the arrangements. | - continue to develop their counting skills <br> - explore the cardinality of 5 , linking this to dice patterns and 5 fingers on 1 hand <br> - begin to count beyond 5 <br> - begin to recognise numerals, relating these to quantities they can subitise and count. | - explore the concept of 'wholes' and 'parts' by looking at a range of objects that are composed of parts, some of which can be taken apart and some of which cannot <br> - explore the composition of numbers within 5. | - compare sets using a variety of strategies, including 'just by looking', by subitising and by matching <br> - 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. |
| $3$ <br> Children will: | - increase confidence in subitising by continuing to explore patterns within 5 , including structured and random arrangements <br> - explore a range of patterns made by some numbers greater than 5 , including structured patterns in which 5 is a clear part <br> - experience patterns which show a small group and '1 more' <br> - continue to match arrangements to finger patterns. | - continue to develop verbal counting to 20 and beyond <br> - continue to develop object counting skills, using a range of strategies to develop accuracy <br> - continue to link counting to cardinality, including using their fingers to represent quantities between 5 and 10 <br> - order numbers, linking cardinal and ordinal representations of number. | - continue to explore the composition of 5 and practise recalling 'missing' or 'hidden' parts for 5 <br> - explore the composition of 6 , linking this to familiar patterns, including symmetrical patterns <br> - begin to see that numbers within 10 can be composed of ' 5 and a bit'. | - continue to compare sets using the language of comparison, and play games which involve comparing sets <br> - continue to compare sets by matching, identifying when sets are equal <br> - explore ways of making unequal sets equal. |


| $4$ <br> Children will: | - explore symmetrical patterns, in which each side is a familiar pattern, linking this to 'doubles'. | - continue to consolidate their understanding of cardinality, working with larger numbers within 10 <br> - become more familiar with the counting pattern beyond 20. | - explore the composition of odd and even numbers, looking at the 'shape' of these numbers <br> - begin to link even numbers to doubles <br> - begin to explore the composition of numbers within 10. | - compare numbers, reasoning about which is more, using both an understanding of the 'howmanyness' of a number, and its position in the number system. |
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| $5$ <br> Children will: | - continue to practise increasingly familiar subitising arrangements, including those which expose ' 1 more' or 'doubles' patterns <br> - 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 <br> - subitise structured and unstructured patterns, including those which show numbers within 10, in relation to 5 and 10 <br> - be encouraged to identify when it is appropriate to count and when groups can be subitised. | - continue to develop verbal counting to 20 and beyond, including counting from different starting numbers <br> - continue to develop confidence and accuracy in both verbal and object counting. | - explore the composition of 10. | - order sets of objects, linking this to their understanding of the ordinal number system. |
| 6 | 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. |  |  |  |

Mastering Number: Overview of content - Year 1

| Strand/ Half-term | Subitising |  | Composition | Comparison | Addition and subtraction/ Number facts |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1$ <br> Children will: | - revisit subitising within 5 using perceptual subitising <br> - practise conceptual subitising of bigger numbers as they become more familiar with patterns made by the numbers 5-10. | - explore the linear number system within 10 , looking at a range of ordinal representations <br> - explore the link between the 'staircase' pattern and a number track. | - focus on the composition of numbers within 10, with a particular emphasis on the composition of numbers 6, 7,8 and 9 as ' 5 and a bit', as well as exploring the composition of numbers 5 and 6 in-depth <br> - explore the composition of odd and even numbers, identifying that even numbers are made of 2 s and odd numbers have 'an extra 1' - they will link this to the 'shape' of these numbers. |  | Although children will not be looking at number bonds expressed as equations, their work on the composition of numbers within 10 will be developing their knowledge of number bonds. |
| $2$ <br> Children will: | - continue to practise conceptually subitising numbers they have already explored the composition of. | - review the linear number system to 10 as they compare numbers. | - continue to explore the composition of the numbers 7-9 in-depth, linking this to their understanding of odd and even numbers <br> - explore the composition of 10, developing a systematic approach to finding pairs that sum to 10. | - revisit what is meant by 'comparing' and see that quantities can be compared according to different attributes, including numerosity. | As above. |
| $3$ <br> Children will: | - continue to practise conceptually subitising numbers they have already explored the composition of. |  | - review the composition of numbers within 10, linking these to part-part-whole representations <br> - practise recalling missing parts for numbers within 10. | - compare numbers within 10, linking this to their understanding of the linear system <br> - use the inequality symbol to create expressions, e.g. $7>2$, and use the language of 'greater than' and 'less than' <br> - reason about inequalities, drawing on their knowledge of the composition of numbers, | - develop their recall of number bonds within 10, through the use of exercises which use written numerals but not the symbols,+- , or $=$. |


|  |  |  |  | e.g. Is this true or false? 3 and 2 is less than 4. |  |
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| $4$ <br> Children will: | - continue to practise conceptually subitising numbers they have already explored the composition of. | - review the linear number system to 10, looking at a range of representations, including a number line <br> - explore the use of 'midpoints' to enable them to identify the location of other numbers. | - review the composition of odd and even numbers, linking this to doubles and near doubles <br> - explore the composition of the numbers 11-20, seeing representations which show the structure of these numbers as 'ten and a bit'. |  | - continue to develop their recall of bonds within 10, through the use of exercises which do NOT involve written equations, such as $4+3$ = ? <br> - identify doubles and near doubles through visual representations of odd and even numbers. |
| Children will: | - continue to practise conceptually subitising numbers they have already explored the composition of. <br> - conceptually subitise numbers within 20 as they become more familiar with the composition of numbers within 20. | - review the linear number system to 20, looking at a range of representations, including a number line <br> - explore the use of 'midpoints' to enable them to identify the location of other numbers. | - continue to explore representations which expose the composition of numbers within 20. | - compare numbers within 20 , including questions which use the symbols ,$+<,>$, or $=$, such as: True or false? $\begin{aligned} & 10+4<14 \\ & 10+4=14 \\ & 10+4>14 \end{aligned}$ | - develop their fluency in additive relationships within 10, using a range of activities and games <br> - draw on their knowledge of the composition of numbers to complete written equations <br> - revisit strategies for addition and subtraction within 10 and apply these to a range of questions, including written equations. |
| 6 <br> Children will: | - continue to use conceptual subitising, especially when using a rekenrek. |  | - apply their knowledge of the composition of numbers, to calculations within 10 and 20. | - continue to draw on their knowledge of the relative size of numbers when answering questions using the inequality symbol. | - continue to practise recalling additive facts within 20, applying their knowledge of the composition of numbers within 20 and strategies within 10. |

Mastering Number: Overview of content - Year 2

| Strand/ Half-term | Subitising |  | Composition | Comparison | Addition and subtraction/ Number facts |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1$ <br> Children will: | - develop conceptual subitising skills as they become more familiar with patterns made by numbers within 10 and understand their composition <br> - use perceptual and conceptual subitising when using a rekenrek. | - explore the linear number system within 10, looking at a range of representations <br> - compare number tracks and number lines and explore the use of 'midpoints' to enable them to identify the location of other numbers. | - focus on the composition of numbers within 10, with a particular emphasis on the composition of numbers 6, 7, 8 and 9 as ' 5 and a bit', as well as exploring the composition of numbers 5 and 6 in-depth <br> - explore the composition of odd and even numbers, identifying that even numbers are made of 2 s and odd numbers have 'an extra 1' they will link this to the 'shape' of these numbers. |  | - link their growing understanding of the composition of numbers within 10 to the related additive facts, including adding 2 to an odd or even number <br> - practise recalling facts in a variety of ways, including through solving simple picture problems and completing equations with a missing sum or addend, |
| Children will: | - continue to practise conceptually subitising numbers they have already explored the composition of. | - review the linear number system as they compare numbers. | - continue to explore the composition of the numbers 7-9 in-depth, linking this to their understanding of odd and even numbers | - compare numbers within 10, linking this to their understanding of the linear number system <br> - use the inequality symbols to create expressions, e.g. $7>2$, and use the language of 'greater than' and 'less than' <br> - draw on their knowledge of number bonds to answer questions in the form: True or false? $5+3>7$ | - continue to practise recalling additive facts for numbers within 10 , using a range of equations, games and picture problems. |


| $3$ <br> Children will: | - continue to practise conceptually subitising numbers they have already explored the composition of, including 'teen' numbers when they have reviewed the composition of 11-19. |  | - review the composition of 11 to 19 as 'ten and a bit' and explore ways to represent this. |  | - focus on number bonds within 10 presented in the part-part-whole structure, including identifying a missing 'part' and relating this to subtraction equations <br> - review strategies for adding 1 and 2 to odd and even numbers to subtraction facts presented in different ways <br> - apply their knowledge of the composition of 11-19 to calculations in which 10 is a part <br> - apply their knowledge of composition to facts involving 3 addends. |
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| 4 <br> Children will: | - continue to conceptually subitise the numbers 11-19 using a range of representations, which expose the structure of these numbers as 'ten and a bit'. | - revisit the structure of the linear number system within 20, making links between the midpoints of 5 and 10 , and 15. | - review the composition of odd and even numbers, linking this to doubles and near doubles. | - continue to compare numbers within 20, including questions which use the symbols + , <, >, or $=$, such as: $\begin{aligned} & \text { Write the correct symbol: } \\ & \begin{array}{l} 10+4 \square 15 \\ 10 \end{array}+4 \square 14 \\ & 10+4 \square 13 \end{aligned}$ | - draw on their knowledge of the linear number system and apply this to calculations involving 1 more and 1 less, and pairs of numbers with a difference of 1 <br> - use their understanding of the composition of odd and even numbers to find doubles and near doubles <br> - apply known facts to calculations involving larger numbers, e.g. $5+2$, $15+2,25+2$. |


| 5 <br> Children will: | - revisit previous activities which develop their subitising skills. | - review the linear number system to 100, applying their knowledge of midpoints to place numbers on a structured number line - they will identify the multiples of 10 that come before and after a given number. | - revisit previous activities which develop their understanding of the composition of numbers within 10 and 20. | - reason about equalities and inequalities using equations and answering questions, such as: <br> True or false? $\begin{aligned} & 5+3=6+2 \\ & 9+4>9+5 \\ & 9+6<10+5 \end{aligned}$ <br> This will help them become fluent in the use of the inequality symbol as well as practising their number bond knowledge. | - become fluent in a range of strategies involving calculations within 20, using 'make 10' strategies to add, and subtracting through the tens boundary <br> - practise recalling number bonds through a range of activities and games which will encourage them to reason about sums and differences. |
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| $6$ <br> Children will: | As above. |  | As above. |  | - develop their fluency in additive relationships within 20, using a range of activities and games and revisiting previously taught strategies where necessary. |

