## Uplands Infant and Nursery School

## Reception: Counting Skills

| Unit 1: Numbers to 5 <br> Unit 7: Numbers to 10 <br> Unit 14: Counting on and counting back <br> Unit 15: Numbers to 20 |  |
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| Importance of <br> this topic | This builds on children's ability to count in sequence. <br> It develops their understanding of numbers' 'cardinal values' - how <br> many items the number represents |
| The 'Counting' units in Power Maths Reception develop children's |  |
| ability to recognise, represent and manipulate numbers to 5 and 10, |  |
| including identifying 1 more and 1 less and then count to 20. |  |$|$

$\left.\begin{array}{|l|l|}\hline & \begin{array}{l}\text { Five frames and ten frames help children to visualise numbers' cardinal } \\ \text { values, and support their understanding of number bonds. They also } \\ \text { demonstrate how different arrangements are worth the same amount. } \\ \text { These are used with cubes and with real-life objects. } \\ \text { Number tracks }\end{array} \\ & \begin{array}{l}\text { Number tracks can be used as a reference for numerals, or to aid in } \\ \text { counting on and counting back. }\end{array} \\ \hline \text { Key vocabulary } & \begin{array}{l}\text { The key vocabulary used in the 'Counting' units includes the numbers to } \\ \text { twenty. } \\ \text { Children will also become familiar with terms related to recognition, } \\ \text { comparison and manipulation of numbers, and to the equipment they } \\ \text { will use. } \\ \text { number; how many; compare; same; different; more; less, fewer; } \\ \text { largest; smallest; odd one out; order; arrange; group; collections; } \\ \text { represent; show; total; altogether; ;ext; after; count on; count } \\ \text { forwards; count back; count backwards; method; solutions; five frame; } \\ \text { ten frame; cube; counter }\end{array} \\ \hline \begin{array}{l}\text { Misconceptions } \\ \text { and } \\ \text { interventions }\end{array} & \begin{array}{l}\text { Counting back incorrectly } \\ \text { Children may find counting backwards tricky, missing out numbers or } \\ \text { saying them in the wrong order. }\end{array} \\ \begin{array}{ll}\text { To assist them, role-play situations in which counting down is } \\ \text { necessary, such as the countdown to blowing out birthday candles or to } \\ \text { a rocket launch. } \\ \text { You could also sing songs such as 'Ten Green Bottles', 'Ten Little } \\ \text { Monkeys' or 'Ten Speckled Frogs'. }\end{array} \\ \text { Counting too few or too many } \\ \text { Children may count too many or too few, count an object more than } \\ \text { once or leave one out. } \\ \text { To intervene, encourage them to line up objects in a row and to touch } \\ \text { each object as they count or move each item as they count it. } \\ \text { Misinterpreting teen numbers } \\ \text { Children may struggle with the concept of teen numbers, either by not } \\ \text { recognising the idea of ten and then some more, or by reading the } \\ \text { digits separately or backwards: for example, reading 14 as 'one four', } \\ \text { 'ten four' or 'teen four'. }\end{array}\right\}$

|  | To clarify the concept of ten and some more, use pairs of ten frames, <br> asking children to count out cubes or counters to fill the frames. <br> To familiarise children with naming conventions, expose them to <br> counting and singing before introducing the numerals. |
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| Assessing for | Children who have mastered the 'Numbers' topic will recognise the <br> numerals (1-10). <br> They will be able to count forwards and backwards to 10 confidently, <br> and count an irregular set of objects accurately. <br> They will identify one more and one fewer than a given number to 10, <br> using appropriate vocabulary to compare numbers and quantities. <br> They will be able to count verbally up to and beyond 20. <br> They will also be able to use a range of resources confidently, to <br> represent given numbers. To deepen this understanding, ask children to <br> identify which resources make different concepts clearest, and to <br> explain why. |

