|  | MATHS TREES OF KNOWLEDGE AND SKILLS PROGRESSION EYFS - NUMBER |  |  |  |
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|  | Nursery | Reception Autumn Term | Reception Spring Term | Reception Summer term |
|  | - Know how many are in a group of up to 3 objects without counting (subitise) <br> - Know the names of numbers in order to 5 <br> - Know that the last number reached when counting objects tells you how many there are (cardinal principle) <br> - Know which numerals match a group of up to 3 objects <br> - Know and understand 'more than' and 'fewer than' <br> - Know at least 3 counting rhymes Five Current Buns, Five Little Speckled Frogs, and Five Little Ducks | - Know how many are in a group of up to 5 objects without counting (subitise) <br> - Know that objects can be sorted, matched and compared <br> - Know how 1,2, 3 and then 4 and 5 are represented <br> - Know that 1, 2, and 3 can be compared <br> - Know the composition of 1, 2, and 3 <br> - Know the '1:1 principle' - that you assign one number name to each object that is being counted, that you count each object only once and count every object in the group <br> - Know the 'stable order principle' that when counting the numbers have to be said in a certain order <br> - Know the 'cardinal principle' - that the number name assigned to the final object in the group is the total number of objects in that group <br> - Know the 'abstraction principle' that anything can be counted, including things that cannot be touched, such as sounds and movements (e.g. jumps) | - Know how many are in a group of up to 10 objects without counting (subitise) <br> - Know the composition of 4 and 5 <br> - Know that numbers to 5 can be compared <br> - Know the composition and representation of 'zero' <br> - Know the counting principles (demonstrate rather than articulate them) <br> - Know and understand 'more', 'fewer' and 'the same amount' in relation to groups of objects | - Know that all quantities are composed of smaller quantities <br> - Know what comes before or after a given number to 10 (and beginning to know beyond 10) <br> - Know, by heart, the sequence of numbers to 10 (and beginning to know beyond 10) |



- Subitise up to 3 objects
- Recite numbers to 5 and beyond
- Say one number for each object 1 - 5
- Show finger numbers up to 5
- Link numerals to amounts (up to 5 objects)
- Experiment with mark-making (own symbols,
marks, numerals)
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- Count forwards and backwards accurately to 5
- Use the counting principles in their play and use these as a provocation for independent learning and challenge
- Order digit cards 1-5
- Use mark-making to represent numbers to 5
- Represent numbers to 5 in different ways
- Represent five objects in a five frame and understand that if the frame is full they have five
- Count out groups of objects up to 10, from a larger group
- Share traditional tales, sequential picture books and counting stories in a group with an adult and use these as a provocation for independent learning
- Continue to use and apply the counting principles accurately, extending with up to 10 objects
- Represent numbers to 10 in different ways
- Count out groups of objects up to 10, from a larger group
- Order digit cards 1-10
- Use tens frames, fingers and bead strings to subitise to 10
- Use mark-making to represent numbers to 10
- Continue to make comparisons by lining items up with 1:1 correspondence or by counting each set carefully and comparing their position in the counting order
- Compare 2, then 3 and then more groups of objects to identify 'more', 'less' and 'the same amount'
- Explore number bonds to 10 using real objects in different contexts
- Share further traditional tales, sequential picture books and counting stories in a group with an adult and use these as a provocation for independent learning
- Practise and consolidate key skills in a range of contexts:
- Subitising (up to 6 in a variety of representations)
- Counting (on and back within 10) - counting objects in a set and a given number of objects from a larger group
- Composition (smaller qualities within larger quantities)
- Sorting and Matching in new contexts (noticing similarities and differences)
- Comparing and Ordering (finding which has 'more', 'fewer' or the 'same amount')
- Practise problem-solving activities to deepen thinking, linked to stories, children's own ideas and problems that arise from play
- Share further traditional tales, sequential picture books and counting stories in a group with an adult and use these as a provocation for independent learning

