Reception Long Term Plan : OUR MATHEMATICS MILESTONES

- Number
- Numerical

Patterns


Checkpoints

| Autumn 1 Autumn 2 | Soring 1 Spring 2 | Summer 1 Summer |
| :---: | :---: | :---: |
| All about me! <br> Celebrations | To Infinity and Beyond! | How does your Garden <br> Grow? <br> All Around the World |
| - To show finger numbers up to 5 <br> - To link numerals to amounts up to 5 <br> - To count objects, actions and sounds <br> - To reliably count a quantity up to 10 <br> - To say how many there are after counting, knowing that the last number in the count indicates the total number in a group <br> - To compare quantities and numbers using language 'more than' less than' fewer' the same as' to compare collections (up to 10 objects) <br> - To talk about 2D shapes <br> - To select shapes appropriately <br> - To combine shapes to make new ones <br> - To create and extend simple patterns <br> - To order items by size, capacity and weight using non-standard measures, correctly using the terms: longest, shortest, heaviest, lightest <br> - To subitise numbers 0-5. <br> - To count forwards and backwards from 5 <br> - To count beyond 10 <br> - To find ' 1 more' from a given number within 10 <br> - To understand the composition of numbers 2,3,4 <br> - To partition sets of up to 5 objects using a part-part whole model <br> - To understand that addition is the combining of sets of objects <br> - To know which pairs make a given number within 4 <br> - To automatically recall double facts $1+1,2+2$ <br> - To write numbers 0-5 <br> - To know about the different ways we can pay for things <br> - To begin to use positional vocabulary in between' 'over' 'above' 'beneath' 'beside' <br> - To describe a familiar route using directional language <br> - To know different times of the day, days of the week and months of the year |  | - To build and identify numbers to 20 and beyond. <br> - To count forwards and backwards <br> - To count on and back to solve problems <br> - Create number stories using ten frames <br> - To follow and give directions <br> - To turn and flips objects in order to make shapes fit and create models; predicting and visualising how they will look <br> - To subitise up to 5 (ELG) <br> - To have a deep understanding of number to 10 , including the composition of each number (ELG) <br> - To compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity (ELG) <br> To double numbers to 10 <br> - To share amounts fairly and recognise when they are not the same <br> - To explore odd and even numbers <br> - To find half of a number <br> - To use a range of nonstandard To pay for items using $1 p, 5 p$ and $10 p$ coins <br> - To tell the time to the o'clock and half past the hour <br> - To automatically recall number bonds up to 5 and some number bonds to 10, including double facts (ELG) <br> - To verbally count beyond 20, recognising the pattern of the counting system (ELG) <br> To explore and represent patterns within numbers up to 10 , including evens and odds, double facts and how quantities can be distributed equally (ELG) |
| - To subitise to 5 <br> - To talk about different ways amounts of 5 can be made <br> - To count objects accurately to 10 <br> - To recognise when amounts are the same, more than or less than <br> - To recognise and order numbers to 10 <br> - To use some shape names and positional language <br> - To create a repeated shape and colour pattern | - To subitise to 8 <br> - To talk about the different ways that numbers to 5 can be made and begin to apply this knowledge to numbers to 10 <br> - Links subtraction facts to composition of numbers to 5 <br> - Recalls some doubles to 10 <br> - Can count beyond 10 <br> - Uses mathematical language to compare and talk about shape and size | - Can children confidently demonstrate the ELG skills? |

Reception Long Term Plan : OUR MATHEMATICS LEARNING ACTIVITIES

| $\Psi$ | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| General Themes | $\because$ All about me! | O Celebrations | To Infinity and Beyond! | The Land Before a Time | How does your Garden Grow? | All Around the World |
| Mathematics EP | Developing astrong grounding in numberis essential so sthatall chidren develop the necessary building blocks to exeel mathemaicially Children should be able to count conifidenty, developp a deep understanding of <br>  <br>  |  |  |  |  |  |
| - Number <br> - Numerical Patterns $\left\|\begin{array}{l} \because \because \\ \because \because \\ \because 0 \end{array}\right\|$ | X2 weeks: baseline/getting to know you <br> - Matching <br> - Sorting <br> - Comparing <br> - Compare <br> - size/mass/capacity <br> Exploring simple patterns | - Finding amounts of 123 <br> Represent amounts 123 Find one less than 123 <br> - Explore the composition <br> - of 123 <br> - Identify and name <br> - Compare circles and <br> - Look for shapes in the environment <br> - Describe position <br> - Recognise amounts of 4 <br> - Subitise 4 and 5 <br> - Represent amounts of 4 <br> - Find one more than 4,5 <br> - Find one less than 4,5 <br> - Identify and name <br> - Combine shapes with 4 <br> - $\quad$ Sides <br> - - Day and nanment | - Introduce zero Find $0-5$ Subitise $0-5$ <br> Represent 0-5 <br> Find one more <br> Composition of amounts <br> to 5 Conceptual subitising to <br> Compare mass <br> Use a balance Explore capacity <br> Explore capacity <br> Recognise amounts of 678 <br> Represent 678 <br> - Find one more than 678 <br> - Find one less than 678 <br> - Making pairs - odd and <br> - Doubles to 8 <br> - Combine two groups <br> (addition) <br> - Conceptual subitising to | - Explore length <br> - Compare length <br> - Compare height <br> - Oalk about time <br> - Find amounts fo 9,10 <br> - Compare numbers <br> - Conceptual subitising to <br> - Find one more <br> - Find one less <br> - Number bonds 10 <br> - Make arrangements of 10 <br> - Doubles to 10 <br> - Recognise and even <br> - Find 2D shapes within 3D shapes <br> - Use 3D shapes <br> - 3D shapes in the <br> - Patterns in the <br> - Copy and continue patterns | - Build numbers beyond <br> - Continue patterns <br> - beyond 10 <br> - Verbal counting <br> - Addition <br> - Subtraction <br> - Rotating shapes <br> - Manipulate shapes <br> - Compose shapes <br> - Copy 2D shape <br> - $\quad$ Find 2 D shapes within | - Sharing amounts <br> - Even and odd sharing <br> - Building doubles <br> - Repeating patterns <br> - Create pataert rules <br> - Replicate and buld <br> - Visualise from dififerent positions <br> - Descirbe positions <br> - $\quad$ Giving instructions <br> - Representing maps <br> - with models <br> - Creating maps from <br> - Creating maps from stories <br> - Consolidation |

