

Mathematics Reception Long Term Plan

	<p>Developing a strong grounding in number is essential so that all children develop the necessary building blocks to excel mathematically. Children should be able to count confidently, develop a deep understanding of the numbers to 10, the relationships between them and the patterns within those numbers. By providing frequent and varied opportunities to build and apply this understanding-such as using manipulatives, including small pebbles and tens frames for organising counting-children will develop a secure base of knowledge and vocabulary from which mastery of mathematics is built. In addition, it is important that the curriculum includes rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures. It is important that children develop positive attitudes and interests in mathematics, look for patterns and relationships, spot connections, 'have a go', talk to adults and peers about what they notice and not be afraid to make mistakes.</p>					
<p>LCC Key learning and LAPS are used to plan.</p>	<p>Early Mathematical experiences</p> <ul style="list-style-type: none"> Counting rhymes and songs. Classifying objects based on one attribute. Matching equal and unequal sets. Comparing objects and sets. Subitising. Ordering objects and sets/introduce manipulatives. Number recognition. 2D shapes. 	<p>Numbers within 6</p> <ul style="list-style-type: none"> Count up to 6 objects. One more or one fewer. Order numbers 1-6. Conservation of numbers within six. <p>Addition and Subtraction within 10</p> <ul style="list-style-type: none"> Explore addition as counting on and subtraction as taking away. <p>Numbers within 15</p>	<p>Numbers within 10</p> <ul style="list-style-type: none"> Count up to 10 objects. Represent, order and explore numbers to 10. One more or fewer, one greater or less. <p>Addition and Subtraction within 10</p> <ul style="list-style-type: none"> Explore addition as counting on and subtraction as taking away. <p>Numbers within 15</p>	<p>Grouping and Sharing</p> <ul style="list-style-type: none"> Counting and sharing in equal groups. Grouping into fives and tens. Relationship between grouping and sharing. <p>Numbers within 20</p> <ul style="list-style-type: none"> Count up to 10 objects. Represent, order and explore numbers to 15. One more or fewer. 	<p>Shape and pattern</p> <ul style="list-style-type: none"> Describe and sort 2D and 3D shapes. Recognise, complete and create patterns. <p>Addition and Subtraction within 20.</p> <ul style="list-style-type: none"> Commutativity (e.g. $3+2$ is the same as $2+3$). Explore addition and subtraction (bar modelling and written calculations). Compare two amounts. 	<p>Depth of numbers within 20</p> <ul style="list-style-type: none"> Explore numbers and strategies. Recognise and extend patterns. Apply number, shape and measures knowledge. Count forwards and backwards. <p>Numbers beyond 20</p> <ul style="list-style-type: none"> One more one less. Estimate and count. Grouping and sharing.

	<p>Pattern and Early Number</p> <ul style="list-style-type: none"> • Recognise, describe, copy and extend colour and size patterns. • Count and represent the numbers 1 to 3. • Estimate and check by counting. • Recognise numbers in the environment. • A number of the week- Number Land. 	<ul style="list-style-type: none"> • Count up to 15 objects and recognise different representations. • Order and explore numbers to 15. • One more or fewer. 	<ul style="list-style-type: none"> • Count up to 15 objects and recognise different representations. • Order and explore numbers to 15. • One more or fewer. 	<p>Doubling and Halving</p> <ul style="list-style-type: none"> • Doubling and halving & the relationship between them. 	<ul style="list-style-type: none"> • Relationship between doubling and halving. <p>Money</p> <ul style="list-style-type: none"> • Coin recognition and values • Combinations to total 20p. • Change from 10p. <p>Measures</p> <ul style="list-style-type: none"> • Describe capacities. • Compare volumes. • Compare weights. • Estimate, compare and order lengths. 	
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