

## Reception programme of study - 'Term per page overview' 2017-18 FINAL

Term	<i>ELG</i> and other aspects of mathematical learning in 30-50 or 40-60 month bands	
Autumn	<b>1. Early mathematical experiences</b>  <b>(3-4 weeks)</b>	<ul style="list-style-type: none"> <li>match equal sets using one-to-one correspondence</li> <li>match unequal sets using one-to-one correspondence</li> <li>compare objects according to size</li> <li>compare sets without counting</li> <li>order objects according to length or height</li> <li>order sets without counting</li> </ul>
	<b>2. Pattern and early number</b>  <b>(2 weeks)</b>	<ul style="list-style-type: none"> <li><b>recognise, create and describe patterns</b></li> <li>describe and create patterns that are the same and different</li> <li>count 1, 2 or 3 objects reliably</li> <li>recognise if a number of objects is the same or different (working with numbers 1, 2 and 3)</li> <li>count one, two or three objects, images or sounds reliably</li> <li>recognise the numerals 1, 2 and 3</li> <li>create representations for numbers 1, 2 and 3</li> </ul>
	<b>3. Numbers within 6</b>  <b>(2 weeks)</b>	<ul style="list-style-type: none"> <li><b>say which number is one more or one less than a given number</b></li> <li><b>estimate a number of objects and check by counting</b></li> <li>count reliably with numbers from 1 to 6</li> <li>Create representations for numbers 1- 6</li> <li>place numbers 1-6 in order</li> <li>say which number from 1-6 is one more or one less than a given number</li> <li>recognise the numerals 1-6</li> <li>understand the conservation of number</li> </ul>
	<b>4. Addition and subtraction within 6</b> <b>(1 week)</b>	<ul style="list-style-type: none"> <li><b>add and subtract two single-digit numbers</b></li> <li><b>estimate a number of objects and check by counting up to 6</b></li> <li>introduce the concept of 0 as the empty set</li> <li>subitise within 5</li> <li>represent and use number bonds within 5</li> <li>use quantities and objects to add and subtract two single-digit numbers</li> </ul>
	<b>5. Measures-length</b>  <b>(1 week)</b>	<ul style="list-style-type: none"> <li><b>use everyday language to talk about size, weight, capacity</b></li> <li><b>estimate, measure, weigh and compare and order objects</b></li> <li>compare objects and quantities</li> <li>solve size problems related to length</li> </ul>
	<b>6. Shape and sorting</b>  <b>(1 week)</b>	<ul style="list-style-type: none"> <li><b>explore characteristics of everyday objects and shapes and use mathematical language to describe them</b></li> <li>shows an interest in shape and space by playing with shapes by sustained construction activity</li> <li>explore characteristics of everyday objects and shapes (focusing on 3-D shapes)</li> <li>use positional language</li> <li>use mathematical language associated with shape</li> <li>classify and sort everyday objects</li> </ul>

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<b>Spring</b>	<b>7. Calendar and time (1 week)</b>	<ul style="list-style-type: none"> <li>• <b>use everyday language to talk about time</b>, days of the week and months of the year</li> <li>• measures short periods of time in simple ways</li> <li>• orders and sequences familiar events</li> <li>• use ordinal numbers: 1st, 2nd...last</li> </ul>
	<b>8. Numbers within 10 (2 weeks)</b>	<ul style="list-style-type: none"> <li>• <b>say which number is one more or one less than a given number</b></li> <li>• <b>estimate a number of objects and check by counting</b></li> <li>• count reliably with numbers from 1 to 10</li> <li>• develop an understanding of zero</li> <li>• create representations for numbers 0-10</li> <li>• place numbers 0-10 in order</li> <li>• recognise the numerals 0-10</li> <li>• use ordinal numbers: 1<sup>st</sup>, 2<sup>nd</sup>...last</li> <li>• understand the conservation of numbers</li> </ul>
	<b>9. Addition and subtraction within 10 (1 week)</b>	<ul style="list-style-type: none"> <li>• <b>estimate a number of objects and check by counting up to 10</b></li> <li>• <b>add and subtract two single-digit numbers and count on or back to find the answer</b></li> <li>• use quantities and objects to add and subtract two single-digit numbers</li> </ul>
	<b>10. Numbers within 15 (1 week)</b>	<ul style="list-style-type: none"> <li>• <b>say which number is one more or one less than a given number</b></li> <li>• <b>estimate a number of objects and check by counting</b></li> <li>• count reliably with numbers from 0 to 15</li> <li>• Create representations for numbers 0-15</li> <li>• place numbers from 0-15 in order</li> <li>• considering equal and unequal groups</li> </ul>
	<b>11. Grouping and sharing (2 weeks)</b>	<ul style="list-style-type: none"> <li>• <b>solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups</b></li> <li>• solve practical problems that involve grouping and sharing</li> <li>• explore counting on in steps of 2 from zero</li> </ul>
	<b>12. Numbers within 20 (2 weeks)</b>	<ul style="list-style-type: none"> <li>• <b>count reliably with numbers from one to 20</b></li> <li>• <b>place numbers from 0-20 in order</b></li> <li>• <b>say which number is one more or one less than a given number</b></li> <li>• <b>solve practical problems that involve grouping and sharing</b></li> <li>• Create representations for numbers 0-20</li> <li>• estimate a number of objects and check by counting, considering equal and unequal groups</li> </ul>
	<b>13. Doubling and halving (1 week)</b>	<ul style="list-style-type: none"> <li>• <b>solve problems, including doubling, halving and sharing</b></li> <li>• Explore the relationship between doubling and halving</li> </ul>

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Summer	14. Shape and pattern (1 week)	<ul style="list-style-type: none"> <li>• <b>talk about properties of shapes</b></li> <li>• <b>explore characteristics of everyday objects and shapes and use mathematical language to describe them</b></li> <li>• explore characteristics of everyday objects and shapes (focusing on 2-D shapes)</li> <li>• use mathematical language associated with shape</li> <li>• classify and sort shapes</li> <li>• recognise, create and describe patterns with shapes</li> <li>• use mathematical language to describe size and position</li> </ul>
	15. Addition and subtraction within 20 (2 weeks)	<ul style="list-style-type: none"> <li>• <b>estimate a number of objects and check by counting up to 20</b></li> <li>• <b>add and subtract two single-digit numbers and count on or back to find the answer</b></li> <li>• explore the relationship between addition and subtraction</li> <li>• <b>compare quantities and objects to solve problems</b></li> <li>• <b>solve problems, including doubling, halving and sharing</b></li> <li>• say which number is one more or one less than a given number</li> <li>• use quantities and objects to add and subtract two single-digit numbers</li> </ul>
	16. Money (1 week)	<ul style="list-style-type: none"> <li>• <b>compare quantities and objects to solve problems</b></li> <li>• <b>use everyday language to talk about money</b>, recognise coins up to 50p and their values</li> <li>• compare the value of coins</li> <li>• use quantities and objects to count on and back to add and subtract</li> </ul>
	17. Measures (2 weeks)	<ul style="list-style-type: none"> <li>• <b>use everyday language to talk about size, weight, capacity</b></li> <li>• <b>estimate, measure, weigh and compare and order objects</b></li> <li>• compare objects and quantities</li> <li>• solve size problems involving weight and capacity</li> <li>• explore measuring objects using non-standard units</li> </ul>
	18. Depth of numbers within 20 (2 weeks)	<ul style="list-style-type: none"> <li>• <b>solve problems including grouping, sharing, doubling and halving</b></li> <li>• Records using marks that they can interpret and explain (DM 40-60+)</li> <li>• Begins to identify own mathematical problems based on own interests and fascinations (DM 40-60+)</li> </ul>
	19. Numbers beyond 20 (1 week)	<ul style="list-style-type: none"> <li>• <b>say which number is one more or one less than a given number</b></li> <li>• <b>solve problems including grouping and sharing</b></li> <li>• <b>estimate a number of objects and check by counting</b></li> <li>• count reliably to 50</li> <li>• explore counting on and back from any number within 50</li> <li>• place numbers from 0-50 in order</li> <li>• estimate a number of objects and check by counting</li> <li>• <b>solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups</b></li> </ul>