

Red – Topic

Blue – strands from curriculum/ area of maths to be taught

Black- coverage

Reception Long Term Plan for Mathematics – 2021-22

Autumn term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
<p><u>Getting to know you</u> Counting One to one principal</p>	<p><u>Getting to know you</u> Counting Stable order principal (counting in order)</p>	<p><u>Getting to know you</u> Counting Cardinal principal (counting groups to find the total number)</p>	<p><u>Just like me</u> Matching Same and different identifying elements that are the same or different</p>	<p><u>Just like me</u> Matching/ sorting Same and different identifying elements that are the same or different Sorting Sorting by groups, objects, features and numbers</p>	<p><u>Just like me</u> Sorting Sorting by groups, objects, features and numbers</p>		<p><u>It's me 1, 2, 3</u> Number composition of 1,2 and 3. Counting out objects, number recognition, number composition , how to make numbers 1,2 and 3 using addition and subtraction, problem solving and comparing quantities of 1,2 and 3.</p>	<p><u>It's me 1, 2, 3</u> Number composition of 1,2 and 3. Counting out objects, number recognition, number composition , how to make numbers 1,2 and 3 using addition and subtraction, problem solving and comparing quantities of 1,2 and 3.</p>	<p><u>It's me 1, 2, 3</u> Number composition of 1,2 and 3. Counting out objects, number recognition, number composition , how to make numbers 1,2 and 3 using addition and subtraction, problem solving and comparing quantities of 1,2 and 3.</p>	<p><u>Light and Dark</u> Numbers 4 and 5 Counting out objects, number recognition, number composition , how to make numbers 4 and 5 using addition and subtraction, problem solving and comparing quantities of 4 and 5.</p>	<p><u>Light and Dark</u> Finding one more and one less Subitise and compare quantities of one more and one less, adding one more, subtracting one less, looking at the link between counting forwards and backwards, number patterns.</p>	<p><u>Light and Dark</u> Shapes with 4 sides Visual discrimination between shapes with four sides, recognise shapes in everyday environments.</p>	Consolidation

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Spring term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
<p>Alive in 5 Introducing zero Comparing numbers to 5 Children to use zero and understand the numeral 0 is used to present this data. Children to understand quantities have more or fewer when comparing.</p>	<p>Alive in 5 Composition of 4 and 5 Counting out objects, number recognition, number composition, how to make numbers 4 and 5 using addition and subtraction, problem solving and comparing quantities of 4 and 5.</p>	<p>Alive in 5 Compare mass and capacity Making direct comparisons between items which are heavy and light, making estimates, checking their estimates, addressing common misconceptions of size and weight, understanding of full and empty and half full.</p>	<p>Growing 6, 7, 8 6,7 and 8 Apply counting principals when courting 6,7 and 8 in different ways, counting from a larger group, arranging 6,7 and 8 quantities into smaller groups, subitising skills to make bigger amounts, counting in order and representing and noticing patterns relating to one less or one more than.</p>	<p>Growing 6, 7, 8 Making pairs Prior knowledge of matching to find pairs, arranging small quantities into pairs, odd numbers can not make pairs.</p>	<p>Growing 6, 7, 8 Combing two groups Combining two groups to find to total, using subitising skills to add two amounts together, counting in ones</p>		<p>Building 9 and 10 9 and 10 Applying continued counting principals when courting to 9 and 10 forwards and backwards, representing 9 and 10 in different ways, arranging 9 or 10 items into smaller groups, using subitising skills to explore their number composition, noticing the ten frame is full.</p>	<p>Building 9 and 10 Comparing numbers to 10 Making comparisons using 1-1 correspondence to compare numbers directly, making comparisons by counting out the e total amount, numerals and their relations to one another, making comparisons between amounts such as more or fewer from other sets, begin to compare 2 quantities and progress to ordering 3 or more.</p>	<p>Building 9 and 10 Bonds to 10 Explore number bonds to 10 using real objects in different contexts, using ten frames and egg boxes to represent numerals, addition.</p>	Consolidation	Consolidation	Consolidation
			Length and height				3D shapes					

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Summer term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Half Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
<p>To 20 and beyond Building numbers beyond 10 Building and identifying numbers to 20, using ten frames, exploring larger numbers and understanding that these are composed from full 10's and part of 10, 1-9 repeat after every full 10, 1 full ten, 2 full ten, 3 full ten etc, addition and subtraction.</p>	<p>To 20 and beyond Counting patterns beyond 10 Counting on and back beyond 10, working with full 10's and part 10's, counting on and back from different starting points, saying what comes before or after a given number, place numbers and sequences in order, using larger numbers from 100 square, addition and subtraction.</p>	<p>To 20 and beyond Spatial reasoning Completing puzzles and jigsaws, select and rotate shapes to fit a space, explain how and why they have chosen this method, matching arrangements of shapes, promoting positional language.</p>	<p>First, then, now Adding more Understanding by adding numbers the quantity will change, first, then now structure, encourage to count from the start point not recounting all the items, represent number stories using ten frames.</p>	<p>First, then, now Taking away Understanding that by take away the quantity will change, first then and now structure, counting all objects from the start, subitising twice when taking away and to recount the final amount, represent take away stories using the ten frames.</p>	<p>First, then, now Spatial reasoning (2) Shapes can be combined and added to make new shapes, creating new shapes, investigating how to make new and different shapes.</p>		<p>Find my pattern Doubling Understanding that doubling means twice as many, build doubles using real life objects, pair wise patterns to make doubles, using the correct language, understanding the relation between doubling and addition.</p>	<p>Find my pattern Sharing and grouping Sharing and not shared equally, equally shared and the relation to 'the same', making equally groups, numbers or items left over when they make equal groups, verbally discussing and problem solving how to make equal groups.</p>	<p>Find my pattern Even and odd Understanding that some groups can be shared equally into two groups, quantities to be grouped into pairs with some left over, odd and even structure on numbers, pair wise structure when using ten frames.</p>	<p>On the move Deepening understanding Problem solving and critically thinking skills relating to addition, subtraction, doubling and sharing problems.</p>	<p>On the move Pattern and relationships Exploring relationships between numbers and shapes, repeating patterns, symmetry.</p>	<p>On the move Spatial reasoning (4) Map making to present places and space.</p>	<p>Consolidation</p>
							Spatial reasoning (3)						