

OCL Reception Maths Spring Overview

This document is designed to be used to support you in planning maths for the Reception year. It has been created using a variety of resources, including elements of White Rose, Maths Mastery, Karen Wilding's 'number sense' approach and the NCETM's Numberblocks resources.

This is a suggested yearly overview for you to follow to ensure you are teaching a broad and balanced curriculum, that covers all areas of the new Early Years Foundation Stage Framework. In the revised EYFS framework there is a heavy focus on developing mastery of numbers to 10, rather than stretching beyond 10, although we recognise that there will be cohorts where it is possible to develop mastery to 10 and teach mastery beyond within the Reception Year.

This overview is designed to be used flexibly by your setting, and has consolidation weeks built in for you to target the needs of your children and cohort precisely and ensure that any misconceptions in maths are addressed immediately before moving on.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Spring 1	Introducing 0 Review of 1-5	Number bonds to 5 – five frame	Introducing 6	Introducing 7	Introducing 8	Doubles and Halves	Introducing 9
Spring 2	Introducing 10 The ten-ness of 10	Recap 1-10 Number bonds to 10	Odds and evens Counting in 2s Equal groups	Combining 2 groups to find the whole Number bonds to 10 Part part whole model	Comparing groups up to 10	Exploring number bonds to 10 further (numbers 6-10 being 5 and 'a bit more')	

Spring 1	DM/ELG	Concepts	Objectives	Enabling Environments
Week 1 S3 Episode 5 (Zero) S3 Episode 1 (Once upon a time) S3 Episode 4 (Fruit Salad)	Count objects, actions and sounds Compare numbers Compare weight, length and capacity <i>Have a deep understanding of numbers to 10</i>	Introducing 0 Review of numbers 1-5 Capacity	<ul style="list-style-type: none"> Introduce the concept of zero Zero is less than 1 and an absence of something Exploring how zero relates to 'empty' – there is nothing in it Review of numbers 1 to 5 (including totalling values and coins) Comparison of numbers to 5 using language of greater than and less than Explore capacity – full and empty, nearly full, nearly empty, half full, half empty 	<ul style="list-style-type: none"> In sand / water area explore concepts of full and empty Pass round a snack basket with 10 snacks in, count backwards as each child takes one out and when the basket is empty shout 'zero!' Make shoe-box small worlds for each numberblock. Put the correct number of things in for each numberblock. Play 'I spy' number game in a circle. First person 'I spy 1 computer', 2nd 'I spy 2 shoes' etc.

				<ul style="list-style-type: none"> ● Set up fruit stall with up to 5 of each type of fruit. Provide baskets for fruit to be partitioned into. ● Play a finding pairs game with 2 children. Print out from numberblocks 'fruit salad' lesson.
<p>Week 2</p> <p>S3 Episode 2 (Blockzilla)</p> <p>S3 Episode 3 (The numberblocks express)</p>	<p>Link the number symbol with its cardinal number value</p> <p>Compare numbers</p> <p>Understand the one more than/one less than relationship between consecutive numbers</p> <p>Explore the composition of numbers to 10</p> <p>Automatically recall number bonds for 0-5 and some to 10</p> <p><i>Have a deep understanding of numbers to 10</i></p> <p><i>Automatically recall number bonds up to 5</i></p> <p><i>Compare quantities up to 10 in different contexts</i></p>	<p>Number bonds to 5 - five frame</p> <p>More than, greater than, less than, fewer than</p>	<ul style="list-style-type: none"> ● Composition of 5 and numbers to 5 ● Partitioning and combining 5 in different ways ● Exploring the part part whole model to partition and combine numbers to 5 ● Explore heights and sizes - taller than, shorter than 	<ul style="list-style-type: none"> ● Provide an area for children to record height comparison throughout the year ● Set height limit for various activities/areas and vary throughout the day so all children get access to the areas ● Feely bags with towers of up to 10 cubes. Each child picks a tower out and compares if it is taller than / shorter than <name>'s tower. ● Use train set, sort trains into different colour carriages. Find different ways to make a train with 5 carriages. ● Play musical carriages (like musical chairs) with 5 children. Set up chairs as though they are a train, play numberblocks express song and when music stops each time remove one carriage. How many are sitting? How many left out? Repeat until there are no chairs left.

<p>Week 3</p> <p>S2 Episode 1 (Six)</p> <p>S2 Episode 8 (Counting sheep)</p>	<p>Count objects, actions and sounds</p> <p>Link the number symbol with its cardinal number value</p> <p>Compare numbers</p> <p>Explore the composition of numbers to 10</p> <p>Automatically recall number bonds for 0-5 and some to 10</p> <p><i>Have a deep understanding of numbers to 10</i></p> <p><i>Compare quantities up to 10 in different contexts</i></p>	<p>Counting to 6</p> <p>The six-ness of 6</p>	<ul style="list-style-type: none"> ● Meet Six ● 6 is one more than 5 ● Counting (1 to 6) ● Subitizing dice patterns (also as a 3 and a 3) Allow children to decide whether to subitize in 1 step (like a dice) or 2 steps (5 and 1 in tens frame) ● Exploring equivalent ways to represent 6 ● Partitioning 6 into equal groups 	<ul style="list-style-type: none"> ● Provide dice, counters and board games, and encourage children to subitise the numbers ● Make your own dice with junk modelling cubes (tissue boxes) or playdough ● 6 small world sheep and 2 fields to encourage children to explore grouping
<p>Week 4</p> <p>S2 Episode 2 (Seven)</p> <p>S2 Episode 12 (Fluffies)</p>	<p>Count objects, actions and sounds</p> <p>Link the number symbol with its cardinal number value</p> <p>Compare numbers</p> <p>Explore the composition of numbers to 10</p>	<p>Counting to 7</p> <p>The seven-ness of 7</p>	<ul style="list-style-type: none"> ● Meet Seven ● 7 is one more than 6 ● Counting 1 to 7 ● Number bonds within 7 	<ul style="list-style-type: none"> ● Set up picnic blanket and selection of food for children to prepare snacks for the numberblocks ● Sort collections of objects into 7 / not 7 ● Ziplock clear bags of pom poms up to 7 to match to numberblocks

	<p><i>Have a deep understanding of numbers to 10</i></p> <p><i>Automatically recall number bonds up to 5 and some to 10</i></p> <p><i>Compare quantities up to 10 in different contexts</i></p>			
<p>Week 5</p> <p>S2 Episode 3 (Eight)</p> <p>S3 Episode 14 (Octoblock to the rescue)</p>	<p>Count objects, actions and sounds</p> <p>Link the number symbol with its cardinal number value</p> <p>Compare numbers</p> <p>Explore the composition of numbers to 10</p> <p><i>Have a deep understanding of numbers to 10</i></p> <p><i>Automatically recall number bonds up to 5 and some to 10</i></p> <p><i>Compare quantities up to 10 in different contexts</i></p>	<p>Counting to 8</p> <p>The eight-ness of 8</p>	<ul style="list-style-type: none"> ● Meet Eight ● Counting 1 to 8 ● 8 is one more than 7 ● Partitioning 8 into equal and non-equal groups ● Pairs of numbers that total 8 	<ul style="list-style-type: none"> ● Cut down large egg box to have 8 spaces, and a variety of objects for them to arrange within e.g. 8 conkers, pom poms, small world animals. ● Throw the beanbag into the hoop game with 8 beanbags, record how many go in the hoop and how many don't ● Feely bags with number blocks to 7 in, and number block to 8 outside. Child chooses a numberblock, then feels in the bag to find the numberblock they will need to make 8. Put them together and check next to the number 8.

<p>Week 6</p> <p>S2 Episode 9 (Double Trouble)</p>	<p><i>Automatically recall number bonds up to 5 and some number bonds to 10, including double facts.</i></p> <p><i>Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.</i></p>	<p>Doubles</p> <p>Sharing</p> <p>Groups</p>	<ul style="list-style-type: none"> ● Double 1,2,3,4 ● Sharing into equal groups ● The relationship between doubling and halving 	<ul style="list-style-type: none"> ● Small world animals and 2 fields to encourage children to explore grouping ● Make butterflies and stick on dots / pom poms in 1s, 2s and 4s on each wing. ● Provide one half of a ladybird or butterfly with spots on. Encourage children to predict how many spots there will be on the other side then use a mirror to check ● Opportunities for sharing e.g. sharing snack, sharing food between teddies, sharing resources between friends
<p>Week 7</p> <p>S2 Episode 4 (Nine)</p> <p>S2 Episode 10 (The Three Threes)</p>	<p>Count objects, actions and sounds</p> <p>Link the number symbol with its cardinal number value</p> <p>Compare numbers</p> <p>Explore the composition of numbers to 10</p> <p><i>Have a deep understanding of numbers to 10</i></p> <p><i>Automatically recall number bonds up to 5 and some to 10</i></p>	<p>Counting to 9</p> <p>Length and measure – link to number size, use rods to be measured and compared with Numberblocks and other measures</p>	<ul style="list-style-type: none"> ● Meet Nine ● Counting 1 to 9 ● The structure of square numbers (4 and 9) ● Partitioning and combining 9 ● Partitioning 9 into 3 equal groups and non equal groups 	<ul style="list-style-type: none"> ● Leave out 3x3 grids with dice and counters, encourage children to invent games to get 3 in a row ● Explore how to make squares from smaller squares, e.g. carpet tiles, post its. ● Using cubes, match outlines of unusually arranged numberblocks to a familiar number shape ● Outdoor chalk for drawing around hands, feet etc. ● Invent a game using 9 bean bags and 3 hoops. ● Create a den for 3 bears, give each bear 3 different things e.g. a spoon, a pillow, a bowl.

SPRING 2		Concept	Objective	Enabling Environments
Week 1 S2 Episode 5 (Ten)	<p><i>Compare quantities up to 10 in different contexts</i></p> <p>Count objects, actions and sounds</p> <p>Link the number symbol with its cardinal number value</p> <p>Understand the one more/one less than relationship</p> <p>Compare numbers</p> <p>Explore the composition of numbers to 10</p> <p><i>Have a deep understanding of numbers to 10, including the composition of number</i></p> <p><i>Automatically recall number bonds up to 5 and some to 10</i></p> <p><i>Compare quantities up to 10 in different contexts</i></p>	<p>Counting to 10</p> <p>The Ten-ness of 10</p>	<ul style="list-style-type: none"> • Meet Ten • Count (1 to 10) • 10 ones are equal to 1 ten • Adding 1 	<ul style="list-style-type: none"> • Tens frames and a variety of objects to explore filling them • Draw around hands and feet ensuring children draw each toe / finger.

<p>Week 2</p> <p>S3 Episode 6 (Now we are 6 to 10)</p> <p>S2 Episode 7 (Ten Green Bottles)</p> <p>S2 Episode 13 (Blast Off)</p>	<p>Count objects, actions and sounds</p> <p>Link the number symbol with its cardinal number value</p> <p>Understand the one more/one less than relationship</p> <p>Compare numbers</p> <p>Explore the composition of numbers to 10</p> <p><i>Have a deep understanding of numbers to 10, including the composition of number</i></p> <p><i>Automatically recall number bonds up to 5 and some to 10</i></p> <p><i>Compare quantities up to 10 in different contexts</i></p>	<p>Recap on 10</p> <p>Time up to 10'o'clock</p> <p>Introduce 10p coin</p>	<ul style="list-style-type: none"> • A review of numbers 6 to 10 • Subtracting 1 • Counting (1 to 10) • Counting down 10 to 1) • Number bonds that total 10 	<ul style="list-style-type: none"> • Make staircase pattern prints using cubes and paint. Match or write number labels for each step. • Practise hitting bottles or skittles off a bench one at a time by throwing a bean bag. • Fill ten bottles with sand or water (lids on!) and encourage children to sing 10 green bottles song and explore pushing them off
<p>Week 3</p> <p>S2 Episode 14 (The Two Tree)</p>	<p>Compare numbers</p> <p><i>Explore and represent patterns within numbers up to 10, including</i></p>	<p>Introduce concept of Odds and Evens</p>	<ul style="list-style-type: none"> • Subtracting 2 from numbers up to 10 • Counting in 2s - 1,2..3,4..5,6... is counting in 1s, whereas 2,4,6 is counting in twos - introduces 	<ul style="list-style-type: none"> • Provide large part part whole model and large objects (e.g. PE hoops) and encourage children to explore part part whole relationships

<p>S2 Episode 11 (Odds and Evens)</p> <p>S3 Episode 12 (Numberblock Rally)</p>	<p><i>evens and odds, double facts and how quantities can be distributed equally</i></p>		<p>concept of unitizing (children may need more time on this concept)</p> <ul style="list-style-type: none"> • Subtraction • Odd and even numbers in a practical situation (numicon representations, link back to counting in 2s) • Equal and non equal groups 	<ul style="list-style-type: none"> • Provide feely bag of numberblocks as Even Tops or Odd Blocks and two trays for children to sort them. • As above, but with numicon • Support counting in 2s with pegs on numberline etc.
<p>Week 4</p> <p>S2 Episode 15 (Numberblock Castle)</p> <p>S3 Episode 15 (Ten again)</p> <p>S3 Episode 8 (Building Blocks)</p> <p>S3 Episode 19 (Mirror Mirror)</p>	<p>Count objects, actions and sounds</p> <p>Understand the one more/one less than relationship</p> <p>Explore the composition of numbers to 10</p> <p><i>Have a deep understanding of numbers to 10, including the composition of number</i></p> <p><i>Automatically recall number bonds up to 5 and some to 10</i></p> <p><i>Compare quantities up to 10 in different contexts</i></p> <p><i>Explore and represent patterns within numbers up</i></p>	<p>Combining two groups to find the whole</p> <p>Number bonds to 10 – ten frame</p> <p>Number bonds to 10 – part whole model</p>	<ul style="list-style-type: none"> • Adding more than 1 to make 5 to 10 • Pairs of numbers that total 10 • Building with blocks and exploring space and pattern • Doubling 	<ul style="list-style-type: none"> • Provide mirrors and numberblocks for children to explore their own mirror mirror combinations • Provide one half of a ladybird or butterfly with spots on. Encourage children to predict how many spots there will be on the other side then use a mirror to check • Build different arrangements of each numberblock and draw around the outline. Leave out a box of cubes for children to explore which numberblock they could be.

	<i>to 10, including evens and odds, double facts and how quantities can be distributed equally</i>			
<p>Week 5</p> <p>S3 Episode 9 (Peekaboo!)</p> <p>S3 Episode 10 (Hiccups)</p>	<p>Count objects, actions and sounds</p> <p>Understand the one more/one less than relationship</p> <p>Explore the composition of numbers to 10</p> <p><i>Have a deep understanding of numbers to 10, including the composition of number</i></p> <p><i>Compare quantities up to 10 in different contexts</i></p>	<p>Comparing groups up to 10</p>	<ul style="list-style-type: none"> • Comparison of numbers to 10 using the language of 'bigger than' 'smaller than' leading to 'greater than' and 'less than' • Comparison of numbers to 10 using < and > signs as well as = • Partitioning and combining numbers in different ways 	<ul style="list-style-type: none"> • Play peekaboo hide and seek. Countdown and children have to run and hide behind someone who is taller than them. The finder has to work out who is hiding,. • Explore which numberblocks can hide behind each other. • Class shop with a limit of 10 items to buy and 2 baskets each. How many will children put in each basket? • Ten frames and a variety of objects to fill, encourage children to place a selection of objects in the ten frame and ask 'how many more' they need to have 10 in total.
<p>Week 6</p> <p>S3 Episode 11 (What's the difference)</p> <p>S3 Episode 13 (Five and Friends)</p>	<p>Count objects, actions and sounds</p> <p>Understand the one more/one less than relationship</p>	<p>Exploring number bonds within 10 (all numbers from 6-10 are made up of 5 and a bit more)</p>	<ul style="list-style-type: none"> • Comparison of numbers to 10 • Finding the difference to make 7 – consider subtraction as difference (how many more / how many less) • Numbers 6 to 10 are made from 5 and a bit 	<ul style="list-style-type: none"> • Use everyday routines to support mathematical discussion, e.g. 6 children and only 2 pencils, how many more do we need? 4 children can play in the home corner, there is only 1 child there at the moment, how many more can go in? • Provide children with a range of resources to explore making '5 and

	<p>Explore the composition of numbers to 10</p> <p><i>Have a deep understanding of numbers to 10, including the composition of number</i></p> <p><i>Automatically recall number bonds up to 5 and some to 10</i></p> <p><i>Compare quantities up to 10 in different contexts</i></p>			<p>a bit' to create numbers 6-10, e.g. numicon, dominoes</p> <ul style="list-style-type: none"> • Use tens frames as labels for areas in the setting where the number of children who can play is limited
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