

Reception Mathematics SOL

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Getting to know you Routines Baseline		It's me 1, 2, 3 Circles and Triangles						Positional Language	1,2,3,4,5 Shapes with 4 sides		
Spring	Alive in 5		Mass & Capacity		Growing 6, 7, 8			Length, Height & Time	Building 9 and 10			Explore 3D shapes.
Summer	How many now?	Sharing & Grouping			Manipulate, compose & decompose	Visualise, build & Map	To 20 & beyond		Making connections	Problem Solving	On the move	

Reception Mathematics Medium Term Plan

Autumn		
Week	Focus	Additional
Week 1	<u>Getting to know you</u>	<u>Baseline to be completed.</u>
Week 2	Revisit numbers 1-5 - oral counting. <ul style="list-style-type: none"> • 1:1 correspondence- counting up to 5 objects reliably by moving or touching each object once • Stable-order - ensuring children say the numbers in the correct order • Cardinality - knowing that the last number said is the total/ being able to count out a given amount from a larger set • Abstract - counting things that cannot be touched i.e. actions, claps, jumps • Order-irrelevance - counting objects and amounts that are placed in random orientations 	Anno's Counting Book - M Anno The Very Hungry Caterpillar - Eric Carle Key vocabulary: count, how many, total, altogether, cardinal number The cardinal number is _____. Numberblocks Season 1 episodes 9 and 10
Week 3	<ul style="list-style-type: none"> • Number 1 • understand the concept of 1, • understand what '1' means, • see when there is one item • be able to select 1 object from a larger group • be able to write the numeral 1 • see that 1 can represent actions as well as physical objects 	<u>White Rose- It's me 1, 2, 3</u> <u>White Rose - Circles and triangles</u> Numberblocks Season 1 Episode 1
Week 4	<ul style="list-style-type: none"> • relate the number/numeral 1 to things that they know • subitise 1 and see the different with 'more than 1' • know that a circle is a shape with 1 side • be able to select a circle from a group of shapes • be able to name a circle when shown one 	<u>Introduction of 5s frame</u>

	<ul style="list-style-type: none"> • 3D shapes with circular faces (cylinder/sphere/cone) • 1 o'clock • 1p • Numicon 1 	
Week 5	<ul style="list-style-type: none"> • Number 2 • understand the concept of 2, • understand what '2 is one more than 1', • see when there are two items • be able to select 2 objects from a larger group • be able to write the numeral 2 • count to 2 • see that 2 can represent actions as well as physical objects • relate the number/numeral 2 to things that they know • subitise 2 and see that it is '1 more than 1' • semi-circles have 2 sides • differentiating between 1 and 2 (sorting) • 2 o'clock • 2p • Numicon 2 	<p><u>White Rose- It's me 1, 2, 3</u></p> <p>Numberblocks Season 1 Episode 2 and 3</p>
Week 6		
Week 7	<ul style="list-style-type: none"> • Number 3 • understand the concept of 3, • understand what '3' means, • see when there are 3 items • be able to select 3 objects from a larger group • be able to write the numeral 3 • see that 3 can represent actions as well as physical objects • relate the number/numeral 3 to things that they know • subitise 3 • understand that 3 is one more than two • understand that 2 is one less than 3 	<p><u>White Rose- It's me 1, 2, 3</u></p> <p><u>White Rose - Circles and triangles</u></p> <p>Numberblocks Season 1 Episode 4 and 5</p> <p>Introduction of part-whole model</p>
Week 8		

	<ul style="list-style-type: none"> • to use vocabulary such as biggest and bigger to compare numbers and amounts • to begin to understand the addition symbol and what it means • triangles (all types) • 3D shapes with triangular faces (pyramids, triangular prism) • 3 o'clock • Numicon 3 • Comparing 1, 2 and 3 • to be able to order numbers 1, 2 and 3. 	
Week 9	<ul style="list-style-type: none"> • Positional Language • Describe a familiar route • Discuss routes and locations using language such as in front/ behind/ next to/ between/ on/ under etc... 	<u>White Rose- It's me 1, 2, 3</u>
Week 10	<ul style="list-style-type: none"> • Number 4 • understand the concept of 4, • understand what '4 is one more than 3', and 3 is one less than 4 • see when there are 4 items (subitise) • be able to select 4 objects from a larger group • be able to write the numeral 4 • count to 4 • see that 4 can represent actions as well as physical objects • relate the number/numeral 4 to things that they know • know that a square has 4 sides (equal) and 4 corners • know that a rectangle has 4 sides (2 long 2 short) and 4 corners • to be able to select a square and rectangle from a selection of shapes • to be able to name a square or rectangle when shown one • 4 o'clock • Numicon 4 	<u>White Rose- Light and Dark</u> (old) <u>White Rose - 1,2,3,4, 5 (new)</u> <u>White Rose - Shapes with 4</u> <u>sides (new)</u> Numberblocks Season 1 Episode 6 and 8 <u>Introduction of addition symbol</u> <u>and concept of addition</u>

Week 11	<ul style="list-style-type: none"> • Number 5 • understand the concept of 5 • understand what '5 is one more than 4', and 4 is one less than 5 • see when there are 5 items (subitise) • be able to select 5 objects from a larger group • be able to write the numeral 5 • count to 5 • see that 5 can represent actions as well as physical objects • relate the number/numeral 5 to things that they know • 5 o'clock • 5p • Numicon 5 	<u>White Rose - 1,2,3,4, 5 (new)</u>
Week 12		<p>Numberblocks Season 1 Episode 7</p> <p>Introduction of addition using a fives frame</p> <p>Numberblocks series 3 - fruit salad/ numberblock express</p> <p>Number bonds to 5</p>

Spring		
Week	Focus	Additional
Week 1	<ul style="list-style-type: none"> Introducing zero Comparing numbers to 5 Revisiting composition of 4 and 5 Begin to identify and recall number bonds to 5 	<u>White Rose - Alive in 5</u> Numberblocks Season 1 Episode 7, 9, 10, 11, 12, 14 and 15. Season 3: once upon a time, blockzilla and the numberblocks express.
Week 2		Introduction of part-whole model to identify bonds Numberblocks series 3 - fruit salad/ numberblock express Number bonds to 5
Week 3	Weight, mass, capacity <ul style="list-style-type: none"> Empty, full and half full including nearly full and nearly empty Use different containers and different shapes- cups, bowls, spoons etc Use different materials - rice, water, sand, beans, water etc Language such as tall, thin, narrow, wide, shallow to describe containers and capacities Comparisons - pouring from one container to the next - Comparisons - how many will take it to fill this container using different materials/equipment etc... Heavy and light - comparing and estimating and ordering from lightest to heaviest and vice versa Avoiding misconceptions such as "bigger means heavier" LINK TO NUMBERS TO 5 ALSO - balancing 	<u>White Rose - Alive in 5</u> <u>White Rose - Mass and Capacity</u> (new)
Week 4		

Week 5	<p>Number 6</p> <ul style="list-style-type: none"> • understand the concept of 6 • understand what '6 is one more than 5', and 5 is one less than 6 • be able to select 6 objects from a larger group • be able to write the numeral 6 • count to 6 • see that 6 can represent actions as well as physical objects • relate the number/numeral 6 to things that they know • a hexagon has six sides • 6 o'clock • Numicon 6 • Composition of 6 - part whole model 	<p><u>White Rose: Growing 6, 7, 8</u></p> <p>Numberblocks episodes: meet six and counting sheep.</p> <p>Introduction of 10s frames.</p>
Week 6	<p>Number 7</p> <ul style="list-style-type: none"> • understand the concept of 7 • understand what '7 is one more than 6', and 6 is one less than 7 • be able to select 7 objects from a larger group • be able to write the numeral 7 • count to 7 • see that 7 can represent actions as well as physical objects • relate the number/numeral 7 to things that they know • subtraction means take away • when we subtract, the number gets smaller • 7 o'clock • Numicon 7 • Composition of 7 - part whole model 	<p><u>White Rose: Growing 6, 7, 8</u></p> <p>Numberblocks episodes: meet seven, fluffies, numberblock rally, what's the difference.</p> <p>Introduction of subtraction symbol and concept</p>

Week 7	<p>Number 8</p> <ul style="list-style-type: none"> • understand the concept of 8 • be able to write the numeral 8 • relate the number/numeral 8 to things that they know • octagons have 8 sides • 8 o'clock • Numicon 8 • Composition of 8 - part whole model 	<p><u>White Rose: Growing 6, 7, 8</u></p> <p>Numberblocks episodes: meet eight and octoblock to the rescue.</p>
Week 8	<p>Length & Height</p> <ul style="list-style-type: none"> • Tall and short - comparing and ordering lengths and heights. • Link to number - which is more and less? How many more/less? 	<p><u>White Rose: Growing 6, 7, 8</u> (old)</p> <p><u>White Rose - Length, Height and Time</u> (new)</p>
Week 9	<p>Number 9</p> <ul style="list-style-type: none"> • understand the concept of 9 • be able to write the numeral 9 • relate the number/numeral 9 to things that they know • 9 o'clock • Numicon 9 • Addition and subtraction within 9 • More and less within 9 • Composition of 9 - part whole model • 	<p><u>White Rose: Building 9 and 10</u></p> <p>Numberblocks: meet nine and the three threes.</p>
Week 10	<p>Number 10</p> <ul style="list-style-type: none"> • understand the concept of 10 	<p><u>White Rose: Building 9 and 10</u></p>

<p>Week 11</p>	<ul style="list-style-type: none"> • be able to write the numeral 10 • relate the number/numeral 10 to things that they know • 10 o'clock • Numicon 10 • Addition and subtraction within 10 • More and less within 10 • Composition of 10 - part whole model • Number bonds to 10 • Number bonds to 10 • Building on knowledge of double 5 makes 10 - what other ways can we make 10? • $10 + 0$, $9 + 1$, $8 + 2$, $7 + 3$, $6 + 4$, $5 + 5$ (one or two per week to focus on) • Introduction of commutative numbers when adding - does it matter if it 7 and 3 or 3 and 7? 	<p>Numberblocks: meet ten, blast off, ten green bottle, now we are 6-10 and numberblobs.</p> <ul style="list-style-type: none"> • Learning subtraction facts and fact families Numberblocks - blast off and ten again.
<p>Week 12</p>	<ul style="list-style-type: none"> • Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can. 	<p><u>White Rose- Building 9 and 10</u> (old)</p> <p><u>White Rose - Explore 3D shapes</u> (new)</p> <p>Numberblocks: flatland, pattern palace</p>

Summer		
Week	Focus	Additional
Week 1	<u>Recap of numbers 1 - 10/ Addition and Subtraction</u> <ul style="list-style-type: none"> • Use of real objects to see that quantity of groups can be changed by adding more or taking away some. • Mathematical stories and reasoning <p>Begin to count from a given number i.e. adding 4 and 3 teaching children to hold 4 in their head and count of 3 more (no need to start at 1)</p>	<u>White Rose - First, then and now</u> (old) <u>White Rose - How many now?</u> (new)
Week 2	<p>Odd and even numbers</p> <ul style="list-style-type: none"> • Sharing and grouping - general that things can be shared • Understanding 2 equal groups • Pairing items • Introduction of even • Counting in 2s to 10 • What happens if we cannot share equally? Introduction of odd. 	<u>White Rose - Find my pattern</u> (old) <u>White Rose - Sharing and grouping</u> (new) <p>Numberblocks - odds and evens</p>
Week 3	<p>Sharing and Grouping</p> <ul style="list-style-type: none"> • Explore sharing and grouping into equal and unequal groups. • Begin to identify doubles. 	<u>White Rose - Find my pattern</u> (old) <u>White Rose - Sharing and grouping</u> (new)
Week 4	<p>Doubles</p> <ul style="list-style-type: none"> • Understanding doubling means 'twice as many.' • Using mirrors to see doubling • Using tens frames, dominoes etc to double numbers • Early symmetry - butterflies, ladybirds etc 	<u>White Rose - Find my pattern</u> (old) <p>Numberblocks - terrible twos, counting sheep and double trouble.</p>

Week 5	<p>Manipulate, compose and decompose using 2D shapes</p> <ul style="list-style-type: none"> Select, rotate and manipulate shapes in order to develop spatial reasoning skills. 	<u>White Rose - Manipulate, compose and decompose</u> (new)
Week 6	<p>Patterns, mapping, visualising and building.</p> <ul style="list-style-type: none"> Identify repeating patterns. Continue patterns. Spot errors in patterns. Replicate scenes and constructions. Visualise from different viewpoints. 	<u>White Rose - Visualise, build and map</u> (new)
Week 7	<p>Numbers beyond 10</p> <ul style="list-style-type: none"> Understanding 'teen' numbers are made from one ten and x ones. Identifying the pattern to our counting system. Explore numbers 11-20. 	<u>White Rose -To 20 and beyond</u>
Week 8		
Week 9	<p>Deepening understanding of numbers Exploring relationships between numbers</p>	<u>White Rose - Make connections</u> (new)
Week 10	<p>Problem solving</p> <ul style="list-style-type: none"> Applying mathematical knowledge to solve problems within 10 (how many legs in the boat.) 	

Week 11	<ul style="list-style-type: none"> • Consolidation of skills throughout the year • Getting children ready for Y1 	<u>White Rose - On the move</u> (old)
Week 12		