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 |
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|  | Getting to know you <br> Routines <br> Baseline |  | It's me 1, 2, 3 <br> rcles and Triangles |  |  |  |  |  | Positional <br> Language | $1,2,3,4,5$ <br> Shapes with 4 sides |  |  |
|  | Aliv | in 5 | $\begin{aligned} & \mathrm{Ma} \\ & \text { Cap } \end{aligned}$ |  | Grow | ng 6, 7, 8 |  | Length, Height \& Time | Build | ng 9 and 10 |  | Explore 3D shapes. |
|  | How many now? | Shari | g \& Gro | ping | Manipulate, compose \& decompose | Visualise, build \& Map |  | 20 \& yond | Making connections | Problem Solving | On th | move |

## Reception Mathematics Medium Term Plan

| Autumn |  |  |
| :---: | :---: | :---: |
| Week | Focus | Additional |
| Week 1 | Getting to know you |  |
| Week 2 | Revisit numbers 1-5-oral counting. <br> - 1:1 correspondence-counting up to 5 objects reliably by moving or touching each object once <br> - Stable-order - ensuring children say the numbers in the correct order <br> - Cardinality - knowing that the last number said is the total/ being able to count out a given amount from a larger set <br> - Abstract - counting things that cannot be touched i.e. actions, claps, jumps <br> - Order-irrelevance - counting objects and amounts that are placed in random orientations | Anno's Counting Book - M Anno <br> The Very Hungry Caterpillar Eric Carle <br> Key vocabulary: count, how many, total, altogether, cardinal number The cardinal number is $\qquad$ <br> Numberblocks Season 1 episodes 9 and 10 |
| Week 3 | - Number 1 <br> - understand the concept of 1 , <br> - understand what ' 1 ' means, <br> - see when there is one item <br> - be able to select 1 object from a larger group <br> - be able to write the numeral 1 | White Rose-It's me 1, 2, 3 <br> White Rose - Circles and triangles <br> Numberblocks Season 1 Episode 1 |
| Week 4 | - relate the number/numeral 1 to things that they know <br> - subitise 1 and see the different with 'more than 1 ' <br> - know that a circle is a shape with 1 side <br> - be able to select a circle from a group of shapes <br> - be able to name a circle when shown one | Introduction of 5 s frame |


|  | - 3D shapes with circular faces (cylinder/sphere/cone) <br> - 1 o'clock <br> - 1 p <br> - Numicon 1 |  |
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| Week 5 | - Number 2 <br> - understand the concept of 2, <br> - understand what ' 2 is one more than 1 ', <br> - see when there are two items <br> - be able to select 2 objects from a larger group <br> - be able to write the numeral 2 <br> - count to 2 <br> - see that 2 can represent actions as well as physical objects <br> - relate the number/numeral 2 to things that they know <br> - subitise 2 and see that it is '1 more than 1 ' <br> - semi-circles have 2 sides <br> - differentiating between 1 and 2 (sorting) <br> - 2 o'clock <br> - $2 p$ <br> - Numicon 2 | White Rose- It's me 1, 2, 3 <br> Numberblocks Season 1 Episode 2 and 3 |
| Week 6 |  |  |
| Week 7 | - Number 3 <br> - understand the concept of 3 , <br> - understand what ' 3 ' means, | White Rose-It's me 1, 2, 3 White Rose - Circles and triangles |
| Week 8 | - see when there are 3 items <br> - be able to select 3 objects from a larger group <br> - be able to write the numeral 3 <br> - see that 3 can represent actions as well as physical objects <br> - relate the number/numeral 3 to things that they know <br> - subitise 3 <br> - understand that 3 is one more than two <br> - understand that 2 is one less than 3 | Numberblocks Season 1 Episode 4 and 5 <br> Introduction of part-whole model |


|  | - to use vocabulary such as biggest and bigger to compare numbers and amounts <br> - to begin to understand the addition symbol and what it means <br> - triangles (all types) <br> - 3D shapes with triangular faces (pyramids, triangular prism) <br> - 3 o'clock <br> - Numicon 3 <br> - Comparing 1, 2 and 3 <br> - to be able to order numbers 1, 2 and 3. |  |
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| Week 9 | - Positional Language <br> - Describe a familiar route <br> - Discuss routes and locations using language such as in front/ behind/next to/ between/ on/ under etc... | White Rose- It's me 1, 2, 3 |
| Week 10 | - Number 4 <br> - understand the concept of 4, <br> - understand what ' 4 is one more than 3 ', and 3 is one less than 4 <br> - see when there are 4 items (subitise) <br> - be able to select 4 objects from a larger group <br> - be able to write the numeral 4 <br> - count to 4 <br> - see that 4 can represent actions as well as physical objects <br> - relate the number/numeral 4 to things that they know <br> - know that a square has 4 sides (equal) and 4 corners <br> - know that a rectangle has 4 sides ( 2 long 2 short) and 4 corners <br> - to be able to select a square and rectangle from a selection of shapes <br> - to be able to name a square or rectangle when shown one <br> - 4 o'clock <br> - Numicon 4 | White Rose- Light and Dark (old) <br> White Rose - $1,2,3,4,5$ (new) <br> White Rose - Shapes with 4 sides (new <br> Numberblocks Season 1 Episode 6 and 8 <br> Introduction of addition symbol and concept of addition |



| Spring |  |  |
| :---: | :---: | :---: |
| Week | Focus | Additional |
| Week 1 | - Introducing zero <br> - Comparing numbers to 5 <br> - Revisiting composition of 4 and 5 <br> - Begin to identify and recall number bonds to 5 | White Rose - Alive in 5 <br> Numberblocks Season 1 Episode $7,9,10,11,12,14$ and 15. |
| Week 2 |  | Season 3: once upon a time, blockzilla and the numberblocks express. |
|  |  | Introduction of part-whole model to identify bonds Numberblocks series 3 - fruit salad/ numberblock express Number bonds to 5 |
| Week 3 | Weight, mass, capacity <br> - Empty, full and half full including nearly full and nearly empty <br> - Use different containers and different shapes- cups, bowls, spoons etc <br> - Use different materials - rice, water, sand, beans, water etc <br> - Language such as tall, thin, narrow, wide, shallow to describe containers and capacities <br> - Comparisons - pouring from one container to the next- <br> - Comparisons - how many will take it to fill this container using different materials/equipment etc... <br> - Heavy and light - comparing and estimating and ordering from lightest to heaviest and vice versa <br> - Avoiding misconceptions such as "bigger means heavier" <br> - LINK TO NUMBERS TO 5 ALSO - balancing | White Rose - Alive in 5 |
|  |  | White Rose - Mass and Capacity (new) |
| Week 4 |  |  |


| Week 5 | Number 6 <br> - understand the concept of 6 <br> - understand what ' 6 is one more than 5 ', and 5 is one less than 6 <br> - be able to select 6 objects from a larger group <br> - be able to write the numeral 6 <br> - count to 6 <br> - see that 6 can represent actions as well as physical objects <br> - relate the number/numeral 6 to things that they know <br> - a hexagon has six sides <br> - 6 o'clock <br> - Numicon 6 <br> - Composition of 6 - part whole model | White Rose: Growing 6, 7, 8 <br> Numberblocks episodes: meet six and counting sheep. <br> Introduction of 10s frames. |
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| Week 6 | Number 7 <br> - understand the concept of 7 <br> - understand what ' 7 is one more than 6 ', and 6 is one less than 7 <br> - be able to select 7 objects from a larger group <br> - be able to write the numeral 7 <br> - count to 7 <br> - see that 7 can represent actions as well as physical objects <br> - relate the number/numeral 7 to things that they know <br> - subtraction means take away <br> - when we subtract, the number gets smaller <br> - 7 o'clock <br> - Numicon 7 <br> - Composition of 7 - part whole model | White Rose: Growing 6, 7, 8 <br> Numberblocks episodes: mee $\dagger$ seven, fluffies, numberblock rally, what's the difference. <br> Introduction of subtraction symbol and concept |


| Week 7 | Number 8 <br> - understand the concept of 8 <br> - be able to write the numeral 8 <br> - relate the number/numeral 8 to things that they know <br> - octagons have 8 sides <br> - 8 o'clock <br> - Numicon 8 <br> - Composition of 8 - part whole model | White Rose: Growing 6, 7, 8 <br> Numberblocks episodes: meet eight and octoblock to the rescue. |
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| Week 8 | Length \& Height <br> - Tall and short - comparing and ordering lengths and heights. <br> - Link to number - which is more and less? How many more/less? | White Rose: Growing 6, 7, 8 <br> (old) <br> White Rose - Length, Height and Time (new) |
| Week 9 | Number 9 <br> - understand the concept of 9 <br> - be able to write the numeral 9 <br> - relate the number/numeral 9 to things that they know <br> - 9 o'clock <br> - Numicon 9 <br> - Addition and subtraction within 9 <br> - More and less within 9 <br> - Composition of 9 - part whole model | White Rose: Building 9 and 10 <br> Numberblocks: meet nine and the three threes. |
| Week 10 | Number 10 <br> - understand the concept of 10 | White Rose: Building 9 and 10 |


| Week 11 | - be able to write the numeral 10 <br> - relate the number/numeral 10 to things that they know <br> - 10 o'clock <br> - Numicon 10 <br> - Addition and subtraction within 10 <br> - More and less within 10 <br> - Composition of 10-part whole model <br> - Number bonds to 10 <br> - Number bonds to 10 <br> - Building on knowledge of double 5 makes 10 - what other ways can we make 10? <br> - $10+0,9+1,8+2,7+3,6+4,5+5$ (one or two per week to focus on) <br> - Introduction of commutative numbers when adding - does it matter if it 7 and 3 or 3 and 7 ? | Numberblocks: meet ten, blast off, ten green bottle, now we are 6-10 and numberblobs. <br> - Learning subtraction facts and fact families Numberblocks blast off and ten again. |
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| Week 12 | - Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can. | $\frac{\text { White Rose- Building } 9 \text { and } 10}{\text { (old) }}$ $\frac{\text { White Rose - Explore 3D shapes }}{\text { (new) }}$ <br> Numberblocks: flatland, pattern palace |


| Summer |  |  |
| :---: | :---: | :---: |
| Week | Focus | Additional |
| Week 1 | Recap of numbers 1-10/ Addition and Subtraction <br> - Use of real objects to see that quantity of groups can be changed by adding more or taking away some. <br> - Mathematical stories and reasoning 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) | $\begin{aligned} & \text { White Rose - First, then and } \\ & \text { now (old) } \\ & \frac{\text { White Rose - How many now? }}{\text { (new) }} \end{aligned}$ |
| Week 2 | Odd and even numbers <br> - Sharing and grouping - general that things can be shared <br> - Understanding 2 equal groups <br> - Pairing items <br> - Introduction of even <br> - Counting in $2 s$ to 10 <br> - What happens if we cannot share equally? Introduction of odd. | White Rose - Find my pattern <br> (old) <br> White Rose - Sharing and grouping (new) <br> Numberblocks - odds and evens |
| Week 3 | Sharing and Grouping <br> - Explore sharing and grouping into equal and unequal groups. <br> - Begin to identify doubles. | White Rose - Find my pattern <br> (old) <br> White Rose - Sharing and grouping (new) |
| Week 4 | Doubles <br> - Understanding doubling means 'twice as many. <br> - Using mirrors to see doubling <br> - Using tens frames, dominoes etc to double numbers <br> - Early symmetry - butterflies, ladybirds etc | White Rose - Find my pattern <br> (old) <br> Numberblocks - terrible twos, counting sheep and double trouble. |


| Week 5 | Manipulate, compose and decompose using 2D shapes <br> - Select, rotate and manipulate shapes in order to develop spatial reasoning skills. | White Rose - Manipulate, compose and decompose (new) |
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| Week 6 | Patterns, mapping, visualising and building. <br> - Identify repeating patterns. <br> - Continue patterns. <br> - Spot errors in patterns. <br> - Replicate scenes and constructions. <br> - Visualise from different viewpoints. | White Rose - Visualise, build and map (new) |
| Week 7 Week 8 | Numbers beyond 10 <br> - Understanding 'teen' numbers are made from one ten and $x$ ones. <br> - Identifying the pattern to our counting system. <br> - Explore numbers 11-20. | White Rose -To 20 and beyond |
| Week 9 | Deepening understanding of numbers Exploring relationships between numbers | White Rose - Make connections (new) |
| Week 10 | Problem solving <br> - Applying mathematical knowledge to solve problems within 10 (how many legs in the boat.) |  |


| Week 11 | - Consolidation of skills throughout the year |  |
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| Week 12 |  | White Rose - On the move (old) |

