**Reception Maths Medium Term Plan - White Rose Maths/Mastering Number Programme/Number blocks**

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| **Autumn A** | **1** | **2** | | **3** | **4** | **5** | **6** | **7** | **8** | Half term |
| **Mastering Number**  Number Blocks linked episodes |  |  | |  |  |  | **Week 1**  **Subitising**  Perceptual subitising 1 and 2, describing spatial patterns with 3 dots, represent quantities on their fingers in different ways, Identify sub groups of 1, 2 and 3 within larger arrangements.  S1 Ep 1 One  S1 Ep 2 Another One  S1 Ep 3 Two  S1 Ep 4 Three  S1 Ep 5 One, Two, Three! | **Week 2**  **Counting, cardinality and ordinality**  Counting to find out ‘how many altogether’, develop 1:1 correspondence by moving or tagging the objects. |  |
| **WRM** | **Getting to know you!** | | | | **Phase 1 - Just like me** | | | **Phase 2 - Its Me 123!** | |
| **Number** | Opportunities for settling in, introducing the areas of provision, getting to know the children.  Key times of day, class routines. | | Exploring the continuous provision inside and out. Where do things belong? Positional Language | | **Match and sort** | **Compare amounts** | **Compare amounts** | **Representing 1, 2 and 3** |  |
| Measure, Shape and Spatial thinking |  |  | **Comparing weight**  S1 Ep. 9 Off we go  S1 Ep 10. How to Count | **Exploring Pattern**  (Mon – followed by CP activities) | **Geometry and Spatial thinking**  Circles and Triangles Spatial Awareness |
| Linked Stories, Rhymes, Games or Resources |  | |  | | Noah’s Ark  Monkey Puzzle | The Button Box M, Reid  Frog and Toad – A lost button Arnold Lobel  Which one doesn’t belong <https://wodb.ca/> | A Squash and a Squeeze – Julia Donaldson  Seaweed Soup – Stuart J Murphy  The Enormous Turnip | We’re going on a Bear Hunt | Circle by Mac Barnett  Triangle by Mac Barnett  The Mr Men Books  Three Little Firefighters by Stuart J Murphy  Round in the Moon cake by Roseanne Thong  My hat, it has three corners song |

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| **Autumn B** | **9** | **10** | | **11** | | | **12** | **13** | | **14** | | **15** | | **End of Autumn Term** |
| **Mastering Number** |  | **Week 3**  **Composition**  (Exploring composition of numbers 3, 4) | | **Week 4 Subitising**  (Continuing to develop perceptual subitising and beginning to use conceptual within number 4) | | | **Week 5**  **Comparison**  (More than/fewer than) | **Week 6**  **Counting, Ordinality & Cardinality**  Counting to find out ‘how many’ altogether, 1:1 correspondence, Deepening understanding of 5 as a quantity, representing 5. | |  | |  | |
| **WRM** | **Just Like Me** | **Phase 2 It’s Me 1,2,3!** | | | | | | **Phase 3 - Light and Dark** | | | | | |
| **Number**  Number Blocks linked episodes | **(1 day numeral and visual recognition of 1, 2 & 3)**  **Representing 1,2 & 3**  S1 Ep1. Meeting One  Hickory, Dickory Dock  123 at the Zoo by Eric Carle  I’m Number One by Michael Rosen  One Bear at Bedtime – Mick Inkpen | **(1 day numeral and visual recognition of 4)**  **Composition of 1,2 & 3**  S1 Ep 4 Three Meet 3  S1 Ep 8. The Three Little Pigs  S1 Ep 5 One, Two, Three  S1 Ep 11. Stampolines  S1 Ep 12. The Whole of me | | **Representing numbers to 5:** Four  S1 Ep 6: Four  S1 Ep 13. The Terrible twos | | |  |  | | **Numbers to 5:**  Five  S1 Ep 7: Five | |  | |
| **Measure, Shape & Spatial thinking** | **Compare size, Mass & Capacity**  **(1 day on each)** |  | | **Geometry and Spatial thinking:** Shapes with 4 sides (**1 day)** S1 Ep 6. Four | | | **Positional language/Spatial Awareness**  **(1 day)** |  | |  | |  | |
| Linked Stories, Rhymes, Games or Resources | The Three Bears  The Three Little Pigs  The Little Bear and the Fish Wish – Debi Gloiri  When Goldilocks went to the house of the bears song  Pink Tiara cookies for three – Maria Dismondy | Pete the cat and his 4 groovy buttons by Eric Litwin  Witches Four – Marc Brown  Washing Line – Jez Aldborough  Anno’s counting book by Mitsumasa Anno | | Square by Mac Barnett  Mr Strong by Roger Hargreaves  Bear in a square by Della Blackstone | | | We’re going on a Bear Hunt  Rosie’s walk by Pat Hutchins  Little Red Riding Hood  Me on a map by Joan Sweeney  Mrs Wishy-Washy  In and out the dusty blue bells song |  | | Kipper’s birthday by Mick Inkpen  5 Little Friends by Sarah Dyer  Five little men in a flying saucer by Dan Crisp  5 Small stars by Ladybird  Five Currant buns  Five Little monkeys  One elephant went out to play | |  | |
| **Spring A** | **1** | | **2** | | **3** | **4** | | | **5** | | **6** | | **7** | |
| **Mastering Number**  [**Training Video Wks 11-15**](https://vimeo.com/655385393/0a6fe07f8a) | **Week 7**  **Comparison**  Compare numbers of objects in two sets by matching them 1:1, identifying when quantities are the same/equal. | | **Week 8**  **Composition**  Understand language of whole and parts, Composition of 2 and 3, Know 1 and 2 are parts of 3. | | **Week 9**  **Composition of 3, 4 & 5**  Combining parts in different ways, Spatial arrangements | **Week 10**  **Counting, Ordinality & Cardinality**  Purpose of counting to find out ‘how many objects there are altogether’, revisit 1:1 correspondence, develop understanding of cardinality as last number counted, begin to count abstract things. | | | **Week 11**  **Subitising**  Use perceptual subitising skills in increasingly complex arrangements. For larger quantities, begin to use skills of conceptual subitising, beginning to quickly see the sub-groups within these larger numbers. Develop skills of visualising. Using spatial language to describe sub-groups within these arrangements. Continue representing quantities in different ways, including by showing amounts on 1 hand ‘all at once’. Recognition of numerals to 5, matching numerals to correct quantities in various games. | | **Week 12**  **Counting, Ordinality & Cardinality**  Purpose of counting to find out how many objects there are. Name the objects being counted to emphasise the numerosity of the set. Revisit concept of cardinality-last number in the count tells us how many things there are ALTOGETHER. Stable order principle – rehearsing the order of the first 5 numbers and understanding that the position each number holds in our number sequence does not change. Within 5, develop ordinal aspect by investigating the difference in value of consecutive whole numbers. Each number has a value of 1 more than the previous number. | | **Week 13**  **Composition**  Consolidate understanding of composition of 5. Composing and decomposing numbers by investigating part–part–whole relations, e.g. seeing that 5 can be made of 3 and 2. Deepen understanding of ‘whole’ being made up of smaller parts through practical experience. Begin to recognise that numbers can be made by combining parts in different ways, and make links by considering similarities and differences in the ways of making 5.Partitioning 5 (splitting it into parts) and considering the missing parts. Visualise numbers within 5 and to work out how many are hidden when they know the whole number in a set. | |
| **WRM** | **Phase 4 - Alive in 5!** | | | | | | | |  | |  | |  | |
| **Number**  Number Blocks linked episodes | **Comparison to 5** | | **Introducing 0** | | **Composition of 4, 5** |  | | | Series 3, Episode 1, Once Upon a Time (Nnumeral linked to Three).  S1 Ep 6. Four  S1 Ep 7: Five | | **Numbers to 5:** One more and One less  S1 Ep. 14. Holes  S1 Ep. 15. Hide and Seek | | S1 Stampolines, Whole of Me, Terrible Twos, | |
| **Measure, Shape & Spatial thinking** |  | |  | |  | **Comparing Mass** | | | **Measurement: Time:** Night and Day | |  | | **Compare Capacity** | |
| Linked Stories, Rhymes, Games or Resources | I Spy Numbers – Jean Marzello  Anno’s Counting Book – Mitsumasa Anno  The Ugly Five – Julia Donaldson  The Blue Balloon –Mick Inkpen | | None the number – Oliver Jeffers  Zero is the leaves on the tree – Betsy Franco | | A Squash and a squeeze – Julia Donaldson  Room on the Broom – Julia Donaldson  Who Sank the Boat – Pamela Allen  Balancing Act – Ellen Stoll Walsh | Fox in the Dark by Alison Green  Peace at Last by Gill Murphy  Kipper’s Monster by Mick Inkpen  Day Monkey, Night Monkey by Julia Donaldson  The Dark, Dark tale by Ruth Brown  Funny Bones by Janet & Alan Allberg  Days of the week song | | |  | | Kipper’s Toybox – Mick Inkpen  The Gingerbread Man  The Enormous Turnip  The Very Hungry Caterpillar  Stella to Earth! By Simon Puttock  Five little speckled frogs  Five Currant buns  Five Little ducks | |  | |

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| **Spring B** | **8** | **9** | **10** | **11** | **12** | **End of Spring Term** |
| **Mastering Number** | **Week 14**  **Composition**  Develop understanding of composition, or the numbers within numbers. Explore ways to represent numbers using the Hungarian number pattern (die pattern). Consolidate the ‘5-ness’ of 5, and provide structures that will support exploration of its composition and its relationships with other numbers. Secure understanding of the pairs of numbers that make 5, and use double dice frames to begin to explore 6 and 7 as numbers that are composed of ‘5 and a bit’. | **Week 15**  **Comparison**  Further develop the skill of noticing attributes and understanding differences and similarities. Focus exclusively on the numerosity of sets, without being diverted by colour, shape or size. Notice when quantities are equal or unequal, and begin to consider how they can manipulate the number of objects in 2 sets to make them equal.  Language-reinforce the language of ‘more than’, ‘fewer than’ and ‘an equal number’ to describe how many objects there are in each set. ‘Fewer than’ is used rather than ‘less than’, as the focus is on countable things. | **Week 16** | **Week 17** | **Week 18** |
| **WRM** | **Phase 5 - Growing 6, 7, 8** | | **Phase 6 - Building 9 and 10** | | |
| **Number**  Number Blocks linked episodes | **6, 7, 8**  **Making Pairs**  **Combining Two Groups**  S2 Six, Seven, Eight | S2 Just Add 1, Counting Sheep, Double Trouble, Fluffies  S3 Octoblock to the rescue | **9 and 10**  S2 Nine, Ten, Blast Off, Three Threes, ten Green Bottles  S3 Blockzilla, Now we are 6-10, Numberblobs, Building Blocks, Hiccups, What’s the difference? Flatland, Pattern Palace | **Comparing Numbers to 10**  **Bonds to 10**  S2 Numberblock Castle  S3 Ten Again, Peekaboo, Five & Friends, The Legend of Big Tum  S5 Now you see us, Drawing Numbers, What’s my number? |  |
| **Measure, Shape & Spatial thinking** |  | **Length & Height (Comparing Height-same/different, taller/shorter,longer/shorter)** | **Time (Days of Week, Measuring Time)** |  | **3D Shapes**  **Pattern** |
| Linked Stories, Rhymes, Games or Resources | Six Dinner Sid – Inga Moore  Sidney the Silly Only Eats Six – M W Penn  Anno’s Counting Book – Mitsumasa Anno  What the Ladybird Heard – Julia Donaldson  Simon’s Sock – Sue Hendra  Pairs! In the Garden – Smriti Prasadam-Halls  Quack & Count -Keith Baker  The elephant and the bad baby  Don’t forget the bacon - Pat Hutchins | The Giraffe who got a Knot – John Bush  Titch – Pat Hutchins  Tall – Jez Alborough  Jack and the Beanstalk - Traditional  Jim and the beanstalk – Raymond Briggs | Jasper’s beanstalk  Mr Wolf’s Week – Colin Hawkins  The Very Hungry Caterpillar – Eric Carle  The Bad Tempered Ladybird – Eric Carle  5 minutes peace - Jill Murphy | How do dinosaurs count to 10? – Yolen & Teague  One Gorilla – Atsuko Morozumi  Mouse Count – Ellen Stoll Walsh  Nine Naughty Kittens –Linda Jenny  Feast for 10 – Cathryn Falwell  Cockatoos - Quentin Blake  Mr Magnolia – Quentin Blake  Ten Black Dots – Donald Crews  Mr Willy-Nilly and Zoey’s Dream – Seung-yim Bak  Rapunzel  Princess & the Pea | The Napping House – Audrey Wood & Don Wood  Engines Engines – L Bruce & S Waterhouse  Mouse Shapes – Ellen Stoll Walsh  Changes Changes – Pat Hutchins  Pattern Bugs – Trudy Harris  Busy Busy Busy – Haneul Ddang  Pattern Fish |

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| **Summer A** | **1** | **2** | **3** | **4** | **5** | **6** | **Half term** |
| **Mastering Number** | **Week 19** | **Week 20** | **Week 21** | **Week 22** | **Week 23** | **Week 24** |
| **WRM** | **Phase 7 - To 20 and Beyond** | | | **Phase 8 – First, Then, Now** | | |
| **Number**  Number Blocks linked episodes | **Building Number beyond 10** S3 Numberblock Rally, Eleven, Twelve, The Way of the Rectangle, Ride the Rays, Block Star, Thirteen, Fourteen, Fifteen, Tween Scenes, Step Squads | **Counting patterns beyond 10**  S4 Fifteen Minutes of Fame, On Your Head  S5 Ten Vaulting |  | **Adding More** | **Taking Away** | Number Bonds to 5  S4 Ten’s Place, Balancing Bridge, Sixteen, Square Club, Seventeen, Eighteen, Loop the Loop, Ninetween, Twenty, Tall Stories, Flights of Fancy, I can count to twenty |
| **Measure, Shape & Spatial thinking** |  |  | **Spatial Reasoning** |  |  | **Spatial Reasoning**  Making new shapes with 2 right angle triangles  Making new shapes with squares  Match Outline/shape Pattern Blocks |
| Linked Stories, Rhymes, Games or Resources | Jack the Builder – Stuart J Murphy  One Moose, 20 Mice – Stella Blackstone  One to 10 and back again – Nick Sharratt  A Dozen Ducklings Lost & Found – Harriet Ziefert  Which is Round? Which is Bigger? –Mineko Marmada  1 is a snail, 10 is a crab – April Sayre & Jess Sayre | 1 is One – Tasha Tudor  The Real Princess – Brenda Williams  10 on a train – John O’Leary | 20 Big Trucks in the middle of the Street – Mark lee  Snail Trail: A Journey Through Modern Art – Jo Saxton  Which One Doesn’t Belong – Christopher Danielson | Mouse Count – Ellen Stoll Walsh  Mr Gumpy’s Outing – John Burningham  Rosie’s Zoo – Allie Busby  Quack & Count – Keith Baker  My Granny Went to Market – Stella Blackstone  Tad – Benji Davis  The Shopping Basket – John Burningham | Kipper’s Toybox  10 green bottles  One Ted Falls out of bed – Julia Donaldson | Grandpa’s Quilt-Betsy Franco  Elevator Magic – Stuart J Murphy  Monster Math – Anne Miranda  Jack and the Flumflum Tree – Julia Donaldson  Pezzettino – Neo Lionni |

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| **Summer B** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **End of Summer term** |
| **Mastering Number** | **Week 25** | **Week 26** | **Week 27** | **Week 28** | **Week 29** | **Week 30** |  |
| **WRM** | **Phase 9 – Find My Pattern** | | | **Phase 10 – On the Move** | | | **Consolidation** |
| **Number**  Number Blocks linked episodes | **Doubling**  Match number to pic bingo (dice, domino)  Doubling  Spot change on 11-20 number line  Doubling barrier game  Domino game | **Sharing & Grouping**  D  S2 The two tree  (**S3** - mirror mirror**,** -the wrong number, (**S4** –heist, -sign of the times, -fun time fair, -the lair of shares, -terrible twosday ,- divide and drive (**S5** - Your turn) | **Even and Odd**  S2 Odds and evens | **Deepening Understanding**  **Problem Solving**  Subtract from 6 (Harry & his bucketful of dinosaurs)  Subtract from 10 (Mr Gumpy’s Outing)  Subtract from 7 (How many legs? problem solving)  Subtract from 8  Making boats – capacity  Subtract from 9  Making Bridges – length  S4 Twenty one and on, We’re going on a square hunt, Thirty’s Big Top, Land of the Giants | **Patterns & relationships**  Dice doubles  Cuisenaire rods  Numicon doubles  Bean bag game  10 frame arrangements  Pattern Fish – Pattern |  |  |
| **Measure, Shape & Spatial thinking** |  |  | **Spatial reasoning** |  |  | **Spatial Reasoning**  Making maps from stories – Little Red Riding Hood  Making Maps – Journey to School  Making Maps – Obstacle course  X marks the spot  Designing Mazes |  |
| Linked Stories, Rhymes, Games or Resources | This is the Story of Alison Hubble – Allan Ahlberg  Two of Everything – Lilly Hong  Double Dave – Sue Hendra  Double the Ducks – Stuart J Murphy  Bean Thirteen – Matthew McElligott  One Hungry Cat – Joanne Rocklin | The Doorbell Rang | Ness the Nurse – Nick Sharratt  One Odd Day – Doris Fisher  Pete the Cat and the missing cupcakes – K & J Dean  Underwater Counting – Jerry Pallotta  What the ladybird Heard – Julia Donaldson  Rosie’s Walk – Pat Hutchins | Mr Gumpy’s Motor Car – John Burningham | Pattern Fish |  |  |  |

Numberblocks extension episodes

Series 4 Series 5 Making patterns

Fifty Sixty’s high score The many faces of twenty Two times shoe shop One thousand and one More to explore

The big one One hundred Odd side story How rectangly Rectangle racers Hidden talents Fun times 1 times table