**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 OneS1 Ep 2 Another OneS1 Ep 3 TwoS1 Ep 4 ThreeS1 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 goS1 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 ArkMonkey Puzzle  | The Button Box M, Reid Frog and Toad – A lost button Arnold LobelWhich 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 BarnettTriangle by Mac BarnettThe Mr Men BooksThree Little Firefighters by Stuart J Murphy Round in the Moon cake by Roseanne ThongMy 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 Dock123 at the Zoo by Eric Carle I’m Number One by Michael RosenOne Bear at Bedtime – Mick Inkpen | **(1 day numeral and visual recognition of 4)****Composition of 1,2 & 3**S1 Ep 4 Three Meet 3S1 Ep 8. The Three Little Pigs S1 Ep 5 One, Two, ThreeS1 Ep 11. StampolinesS1 Ep 12. The Whole of me | **Representing numbers to 5:** FourS1 Ep 6: Four S1 Ep 13. The Terrible twos |  |  | **Numbers to 5:**FiveS1 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 BearsThe Three Little PigsThe Little Bear and the Fish Wish – Debi GloiriWhen Goldilocks went to the house of the bears songPink Tiara cookies for three – Maria Dismondy | Pete the cat and his 4 groovy buttons by Eric Litwin Witches Four – Marc Brown Washing Line – Jez AldboroughAnno’s counting book by Mitsumasa Anno | Square by Mac BarnettMr Strong by Roger HargreavesBear in a square by Della Blackstone | We’re going on a Bear HuntRosie’s walk by Pat HutchinsLittle Red Riding HoodMe on a map by Joan SweeneyMrs Wishy-Washy In and out the dusty blue bells song |  | Kipper’s birthday by Mick Inkpen5 Little Friends by Sarah DyerFive little men in a flying saucer by Dan Crisp 5 Small stars by LadybirdFive Currant bunsFive Little monkeysOne 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. FourS1 Ep 7: Five | **Numbers to 5:** One more and One lessS1 Ep. 14. HolesS1 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 MarzelloAnno’s Counting Book – Mitsumasa AnnoThe Ugly Five – Julia DonaldsonThe Blue Balloon –Mick Inkpen | None the number – Oliver JeffersZero is the leaves on the tree – Betsy Franco | A Squash and a squeeze – Julia DonaldsonRoom on the Broom – Julia DonaldsonWho Sank the Boat – Pamela AllenBalancing 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 DonaldsonThe Dark, Dark tale by Ruth Brown Funny Bones by Janet & Alan Allberg Days of the week song |  | Kipper’s Toybox – Mick InkpenThe Gingerbread ManThe Enormous TurnipThe Very Hungry CaterpillarStella to Earth! By Simon PuttockFive little speckled frogsFive Currant bunsFive 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, FluffiesS3 Octoblock to the rescue | **9 and 10**S2 Nine, Ten, Blast Off, Three Threes, ten Green BottlesS3 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 CastleS3 Ten Again, Peekaboo, Five & Friends, The Legend of Big TumS5 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 MooreSidney the Silly Only Eats Six – M W PennAnno’s Counting Book – Mitsumasa AnnoWhat the Ladybird Heard – Julia DonaldsonSimon’s Sock – Sue HendraPairs! In the Garden – Smriti Prasadam-HallsQuack & Count -Keith BakerThe elephant and the bad babyDon’t forget the bacon - Pat Hutchins | The Giraffe who got a Knot – John BushTitch – Pat HutchinsTall – Jez AlboroughJack and the Beanstalk - TraditionalJim and the beanstalk – Raymond Briggs | Jasper’s beanstalkMr Wolf’s Week – Colin HawkinsThe Very Hungry Caterpillar – Eric CarleThe Bad Tempered Ladybird – Eric Carle5 minutes peace - Jill Murphy | How do dinosaurs count to 10? – Yolen & TeagueOne Gorilla – Atsuko MorozumiMouse Count – Ellen Stoll WalshNine Naughty Kittens –Linda JennyFeast for 10 – Cathryn FalwellCockatoos - Quentin BlakeMr Magnolia – Quentin BlakeTen Black Dots – Donald CrewsMr Willy-Nilly and Zoey’s Dream – Seung-yim BakRapunzelPrincess & the Pea | The Napping House – Audrey Wood & Don WoodEngines Engines – L Bruce & S WaterhouseMouse Shapes – Ellen Stoll WalshChanges Changes – Pat HutchinsPattern Bugs – Trudy HarrisBusy Busy Busy – Haneul DdangPattern 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 HeadS5 Ten Vaulting |  | **Adding More**  | **Taking Away** | Number Bonds to 5S4 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 trianglesMaking new shapes with squaresMatch Outline/shape Pattern Blocks |
| Linked Stories, Rhymes, Games or Resources | Jack the Builder – Stuart J MurphyOne Moose, 20 Mice – Stella BlackstoneOne to 10 and back again – Nick SharrattA Dozen Ducklings Lost & Found – Harriet ZiefertWhich is Round? Which is Bigger? –Mineko Marmada1 is a snail, 10 is a crab – April Sayre & Jess Sayre | 1 is One – Tasha TudorThe Real Princess – Brenda Williams10 on a train – John O’Leary | 20 Big Trucks in the middle of the Street – Mark leeSnail Trail: A Journey Through Modern Art – Jo SaxtonWhich One Doesn’t Belong – Christopher Danielson | Mouse Count – Ellen Stoll WalshMr Gumpy’s Outing – John BurninghamRosie’s Zoo – Allie BusbyQuack & Count – Keith BakerMy Granny Went to Market – Stella BlackstoneTad – Benji DavisThe Shopping Basket – John Burningham  | Kipper’s Toybox10 green bottles One Ted Falls out of bed – Julia Donaldson | Grandpa’s Quilt-Betsy FrancoElevator Magic – Stuart J MurphyMonster Math – Anne MirandaJack and the Flumflum Tree – Julia DonaldsonPezzettino – 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)DoublingSpot change on 11-20 number lineDoubling barrier gameDomino game | **Sharing & Grouping**DS2 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 – capacitySubtract from 9Making Bridges – lengthS4 Twenty one and on, We’re going on a square hunt, Thirty’s Big Top, Land of the Giants | **Patterns & relationships**Dice doublesCuisenaire rodsNumicon doublesBean bag game10 frame arrangements Pattern Fish – Pattern  |  |  |
| **Measure, Shape & Spatial thinking**  |  |  | **Spatial reasoning** |  |  | **Spatial Reasoning**Making maps from stories – Little Red Riding HoodMaking Maps – Journey to SchoolMaking Maps – Obstacle courseX marks the spotDesigning Mazes  |  |
| Linked Stories, Rhymes, Games or Resources | This is the Story of Alison Hubble – Allan AhlbergTwo of Everything – Lilly HongDouble Dave – Sue HendraDouble the Ducks – Stuart J MurphyBean Thirteen – Matthew McElligottOne Hungry Cat – Joanne Rocklin | The Doorbell Rang | Ness the Nurse – Nick SharrattOne Odd Day – Doris FisherPete the Cat and the missing cupcakes – K & J DeanUnderwater Counting – Jerry PallottaWhat the ladybird Heard – Julia DonaldsonRosie’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