Waverton Primary School<br>Learning Together - Achieving Together

## Maths in EYFS

In the Foundation Stage children will be taught Maths skills through the Specific Area Mathematics. Mathematics consists of two aspects, Number and Numerical Patterns. Children will take part in whole class Maths lessons, guided group sessions and when appropriate $1: 1$ sessions. Children will be given the opportunity to explore and investigate through their self- initiated play. Shape, space and measure will be taught alongside Number and Numerical Pattern.

Below are the Development Matters statements for the Specific Area Mathematics, and the two aspects, Number and Numerical Patterns. Please note, the statements and ELGs are not the EYFS curriculum. Through carefully planned activities, chosen by us, activities based around the interests of the children and children working and exploring independently they will develop their Mathematics skills.

## 3-4 Years

- Fast recognition of up to 3 objects, without having to count them individually ('subitising').
- Recite numbers past 5 .
- Say one number for each item in order: $1,2,3,4,5$.
- Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle').
- Show 'finger numbers' up to 5 .
- Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5 .
- Experiment with their own symbols and marks as well as numerals.
- Solve real world mathematical problems with numbers up to 5 .
- Compare quantities using language: 'more than', 'fewer than'.
- Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'.
- Understand position through words alone - for example, "The bag is under the table," - with no pointing.
- Describe a familiar route.
- Discuss routes and locations, using words like 'in front of' and 'behind'.
- Make comparisons between objects relating to size, length, weight and capacity
- Select shapes appropriately: flat surfaces for building, a triangular prism for a roof etc.
- Combine shapes to make new ones - an arch, a bigger triangle etc.
- Talk about and identifies the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs' etc.
- Extend and create $A B A B$ patterns - stick, leaf, stick, leaf.
- Notice and correct an error in a repeating pattern.
- Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...'


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Reception

- Count objects, actions and sounds.
- Subitise.
- Link the number symbol (numeral) with its cardinal number value
- Count beyond ten.
- Compare numbers
- Understand the 'one more than/one less than' relationship between consecutive numbers.
- Explore the composition of numbers to 10.
- Automatically recall number bonds for numbers 0-10.
- Select, rotate and manipulate shapes in order to develop spatial reasoning skills.
- Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.
- Continue, copy and create repeating patterns.
- Compare length, weight and capacity.


## ELG Number

- Have a deep understanding of number to 10 , including the composition of each number.
- Subitise (recognise quantities without counting) up to 5.
- Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10 , including double facts.


## ELG Numerical Patterns

- Verbally count beyond 20, recognising the pattern of the counting system.
- Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other Quantity`.
- Explore and represent patterns within numbers up to 10 , including evens and odds, double facts and how quantities can be distributed equally

Yearly Maths Overview Texts

| Autumn 1 Only One you / I wanna be like you... |  | Autumn 2 Celebrations |  |
| :---: | :---: | :---: | :---: |
| Objectives: <br> Numbers to 5 <br> Sorting <br> Comparing Groups | Text and Rhymes: <br> The Three Bears <br> The Three Pigs <br> Goldilocks <br> Three Blind Mice Five Little Speckled Frogs <br> Five Little Ducks <br> Five Currant Buns <br> Five Little Men in a Flying Saucer <br> Washing Line Jez Alborough - taking away <br> Anno's Counting book- adding 1 more <br> Frog and Toad- Alost Button- Arnold <br> Lobel- sorting <br> The Button Box M Reid-sorting <br> The Gingerbread Man- Comparing Groups <br> The Enormous Turnip- Comparing Groups <br> Mr Gumpy's Outing- Comparing Groups | Objectives: <br> Addition and Subtraction to 5 <br> 1 more and 1 Less <br> Time- My Day | Text and Rhymes: <br> Previous stories and rhymes <br> The Very Hungry Caterpillar Eric Carle- <br> time <br> Maisy Goes Camping Lucy Cousins <br> Five Little Ducks -Denise Fleming Five <br> Tiddly Widdly Tadpoles - Debbie Tarbett <br> Five Little Monkeys Jumping on the Bed- <br> Eileen Christelow <br> The Bad Tempered Ladybird Eric Carl time <br> A Second is a Hiccup Hazel Hutchins <br> Peace at Last Jill Murphy <br> Alfie at Nursery School Shirley Hughes- My day |
| Spring 1 How to Catch a Star |  | Spring 2 Superheroes |  |
| Objectives: <br> Number Bonds to 5 <br> Numbers to 10 <br> 2D Shape | Text and Rhymes: <br> Previous stories and rhymes <br> Days of the Week Song <br> 1,2 buckle my shoe Little Miss Muffet <br> The Very Busy Spider <br>  <br> Teague <br> The Terrible Dinosaurs Paul Stickland <br> Feast for 10 Catherine Falwell <br> Play hopscotch to 10 | Objectives: <br> Addition and <br> Subtraction to 10 <br> 3D Shape <br> Positional language <br> Doubles | Text and Rhymes <br> Supertato Sue Hendra \& Paul Linnet Quack and Count Keith Baker Animals on Board Stuart Murphy We're Going on a Bear Hunt Michael Rosen <br> Rosie's Walk <br> Pat Hutchins <br> Little red Riding Hood <br> Mrs Wishy Washy Joe Cowling <br> Me on a Map Joan Sweeney <br> In and Out the Dusty Blue Bells <br> The Shape book Series Mac Barbett \& Jon Klassen |
| Summer 1 Castles |  | Summer 2 Out and About |  |
| Objectives: <br> Exploring Pattern <br> Count to 20 <br> Count on and Back <br> to 20 and beyond- <br> addition/ <br> subtraction- <br> greater /less than Money | Text and Rhymes : <br> Princess Mirror Belle Julia Donaldson <br> Princess and the Wizard Julia Donaldson <br> Zog Julia Donaldson <br> Pattern Bugs Trudy Harris Tongue <br> Twisters Pattern red lorry, yellow lorry <br> Clap your hands and wiggle your fingers <br> song <br> Duck duck goose game <br> We will rock you Queen clapping song <br> AAB pattern song - Musical Maths youtube <br> Mouse Count Ellen Stoll Walsh <br> The Shopping Basket John Burningham Kippers Toy Box Mick Inkpen Incy Wincy Spider | Objectives: <br> Number patternsdoubles, halves Odd and Even numbers Length <br> Capacity Weight | Text and Rhymes: <br> The Hungry Caterpillar Eric Carle <br> The Bad Tempered Ladybird Eric Carle time <br> The Busy Spider Eric Carle <br> The Snail and the Whale Julia Donaldson <br> Superworm Julia Donaldson <br> Oliver's Vegetables Vivian French <br> This is the Story of Alison Hubble Allan <br> Ahlberg <br> The Doorbell Rang Pat Hutchins <br> Bean Thirteen Matthew McElligott <br> Maths Storytime Nrich <br> Six Dinner SidnInga Moore <br> Titch Pat Hutchins <br> Tall Jez Albourgh <br> Where's My Teddy Jez Albrough <br> Who Sank the boat Pamela Allen <br> How much does a ladybird Weigh? Alison <br> Limentani <br> Balancing Act Ellen Stoll Walsh |

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## Sample Long Term Curriculum Overview

| Mathematies |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Cardinality \& Counting <br> Accurate counting of sets of objects 1-5 <br> NB 51 episodes 9 \& 10 <br> (1:1 correspondence, cardinality) <br> Subitising 1-3 <br> NB 51 episodes 1-4 <br> (introducing 1, 2 and 3) <br> Numeral Recognition 1-5 <br> Composition <br> Conceptual subitising noticing numbers within numbers <br> Comparison <br> Compare sets 1-5 using vocab of more / fewer / most /fewes $\dagger$ <br> Measures <br> Height <br> Pattern <br> Simple AB patterns (complete, copy, make own and spot/correct errors in patterns) | Cardinality \& Counting <br> Accurate counting of sets of objects 1-10 and ordering numbers $1-10$ <br> Subitising 1-5 <br> NB 51 episodes 6 \& 7 (introducing 4 and 5) <br> Composition <br> Applied conceptual subitising <br> NB 51 episode 11 <br> (Stampolines) <br> Inverse operations - <br> splitting and recombining sets of objects 1-5 <br> including part whole model NB 51 episode 12 <br> (Whole of me) <br> Comparison <br> Compare numbers using vocab of more/less <br> Find 1 more using sets of objects on tens frames and on a number track <br> Shape/Space <br> 2 D shapes and their properties <br> Pattern <br> identifying unit of repeat <br> - $A B$ \& $A B C$ patterns | Cardinality \& Counting <br> Countina backwards 10-1 \& ordering numbers 10-1 Composition <br> Systematic approach to partitioning sets of objects 1-5 including part whole model NB 51 episode 14 (Holes) Start to learn number bonds 1-5 <br> Comparison <br> Find 1 less using sets of objects on tens frame and on a number track <br> Measures Length <br> Shape/Space <br> Spatial vocabulary (in front, behind, in between, on, in, under, first second, third) <br> Pattern <br> More complex patterns $A B B, A B B C$ <br> generalising pattern and transferring to another format e.g. link pattern of shapes to movements | Composition Splitting and recombining sets of objects 6-9 <br> Use part whole model and tens frame <br> NB 52 episodes 1-5 (introducing 6-10) <br> Comparison <br> 1 more/1 less using mental numberline (see Pattern plan) <br> NB 52 episodes 6 \& 7 <br> (Just add one \& ten green bottles) <br> Measures Mass <br> Shape/Space representing spatial relationships as maps Spatial vocabulary (forwards, backwards, up, down, across) <br> Pattern <br> Numerical Patterns staircase patterns linked to 1 more $/ 1$ less in comparison | Cardinality \& Counting Gounting beyond 10 noticing pattern in ones <br> Composition <br> Systematic approach to splitting and recombining sets of objects 1-10 <br> use part whole model and tens frame <br> Consolidate bonds to 5, 4, 3, <br> 2,1 <br> Make generalisations <br> Start to learn some number <br> bonds for 10 <br> NB 52 Episode 13 <br> (Blast Off!) <br> Measures <br> Time - sequence of events <br> Shape/Space <br> 3D shapes <br> properties of shapes <br> Patterns <br> Numerical patterns odds \& evens <br> NB 52 episode 11 <br> (Odds \& Evens) | Cardinality \& Counting Counting beyond 20 noticing pattern in tens Composition <br> Look at part whole models splitting numbers $1-10$ where both parts are the same - learn those not known <br> Link to doubles and halves work in patterns <br> NB S2 episode 9 <br> (Double Trouble) <br> Splitting into more than 2 parts - link to sharing fairly in comparison NB 52 episode 10 (The three threes) <br> Comparison <br> Focus on sharing fairly NB 52 episode 8 (Counting Sheep) <br> Measures Capacity <br> Shape/Space <br> Relationships between shapes <br> Pattern <br> Symmetry/reflections Numerical patterns doubles and halves |

This sample long term plan is supported by a series of 5 courses and 37 sample weekly plans.
For more details please visit: https://first4maths.thinkific.com

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Resources from White Rose and Number Blocks will be used where appropriate


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Reception - Notes and guidance

## Summer Progression



|  |  | Series 3 Overview <br> stories and mathematics |  | 11 | What's the Difference? | Seven shows the others how to be lucky like him: just ask a number friend to jump on your head! But how do you know which friend? | - Comparison of numbers to 10 <br> - Finding the difference to make 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| More 0 | on |  |  | 12 | Numberblock Rally | Ten riders, ten pedal-powered cars, but only one can lift the trophy. Welcome to the Numberblock Rally | - Subtraction |
| Nomb | \%10 |  |  | 13 | Five and Friends | When Five and friends go missing from the five-star ball, Six to Ten discover they are all Five-and-a-friend! | - Numbers 6 to 10 are made from 5 and a'bit' |
| Epicorde | Name | Storyline | Mathematics | 14 | Octoblock to the Rescue! | The terribly naughty Terrible Twos are making custard pies and Octoblock is all tied up: can his friends save the day? | Pairs of numbers that total 8 |
|  | Once Upona Tine | Are grou uitting comfortably? Them mell begin a liedtime rfory al about the firat five Humbertiods | - Arevew otmanben 1 to 5 |  |  |  | Paisofrersthator |
|  | Bocalla | Coming now to a weecs new pou the monnter taie of a cifosisl ceabre ahoneally, reily liers bigger nambers | Campaname of remithers 1 tes 5 ubing the language of laseatat tham and less than | 15 | Ten Again | The number friends all want to do different things today, so rocket Ten finds a clever way to do it all. | - Pairs of numbers that total 10 |
|  | This <br> Numbetiods <br> Eypess | At aboard tor a rotoui nilwing ibe in the Fiumbetbocistry tortep: ninumay tian. | Componitios of 3 <br> Partitioning and combining $\frac{5}{5}$ is delerent wapa | 16 | Flatland | Squarey, wére not in Numberland anymore! Four visits Flatland, where the flat shapes live, and becomes a real square. | - 2D Shape |
|  | Fuiesabs | Wekome to the tobulbuit tun frut Gactary meven Thurif uger fuitsocting machines asent ofing le any frit. | Compostion of mumberstas Exploting the partpantwhote modet to parstion and combine numbentas | 17 | Pattern Palace | One and chums carefully cross the precarious pattern puzzle paths over many magic moats to get to the Pattern Palace. | - Pattern |
|  | zent | Whes therel nothing there to count and none il the amourt, nabody does à better than Z.mm | Irtroforing the concent of zero Zamis oroless ftan 1 and an ibsence of womething | 18 | The Legend of Big Tum | A big hairy monster with a big hairy tummy who loves puzzles? Find out who is in Big Tum's tum! | - Problem solving and finding the missing number |
|  | Now WiAn Sin to Its) | Ar poy siting cumbertabir? Then \#ell begn a bedtime nory al about Nürbertiodas 5ix 10 Tm . | - Amiesoltrambenéto 10 |  | Mirror, Mirror | One makes a wish that the magic mirror could make lots of friends at once - and soon it's pandemonium. | - Adding multiples of the same number |
|  | Murbeition | Sing abing to the lumbertiohe icountiog rong with the Numberplods' heovile friend | - Countingto 10 | 19 |  |  |  |
|  | Buadieg Piblo | The Finmbelioch reurus a frimenty aler who beipn then buid a trwer to the tan: | Suldng with blocks and eaploring swace end pathem | 20 | The Wrong Number | It was a grey day in the big city. One was wondering where her next case would come from, when a square silhouette appeared at the door. | - Problem solving - reasoning about number |
|  | Fentond | The number fiendi bise turishiang behind wach other in a wing end dance al about bigge and smaler. | Companion of numbers 5010 ving temanpuge of ligoint that' Vmalier theos lesting to gieater theriverflent than |  |  | .... -. . .... . |  |
| [ 0 | H6tuen | Ever time Numbetsod. Nine hiccount he fallotopieres-istit the uithert firad an uneepected oure | - Composiban of matiberso is <br>  indilvert wiy |  |  |  |  |

