

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 ABAB 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



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Yearly Maths Overview Texts

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

Mathematics						
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Cardinality & Counting	Cardinality & Counting	Cardinality & Counting	Composition	Cardinality & Counting	Cardinality & Counting	
Accurate counting of	Accurate counting of sets	Counting backwards 10-1 &	Splitting and	Counting beyond 10 noticing	Counting beyond 20	
sets of objects 1-5	of objects 1-10 and	ordering numbers 10-1	recombining sets of	pattern in ones	noticing pattern in tens	
NB 51 episodes 9 & 10	ordering numbers 1-10	Composition	objects 6-9	Composition	Composition	
(1:1 correspondence,	Subitising 1-5	Systematic approach to	Use part whole model	Systematic approach to	Look at part whole models	
cardinality)	NB S1 episodes 6 & 7	partitioning	and tens frame	splitting and recombining	splitting numbers 1-10	
Subitising 1-3	(introducing 4 and 5)	sets of objects 1-5	NB 52 episodes 1-5	sets of objects 1-10	where both parts are the	
NB 51 episodes 1-4	Composition	including part whole model	(introducing 6-10)	use part whole model and	same – learn those not	
(introducing 1, 2 and 3)	Applied conceptual	NB 51 episode 14 (Holes)	Comparison	tens frame	known	
Numeral Recognition 1-5	subitising	Start to learn number	1 more/1 less using	Consolidate bonds to 5, 4, 3,	Link to doubles and halves	
Composition	NB 51 episode 11	bonds 1-5	mental numberline	2,1	work in patterns	
Conceptual subitising -	(Stampolines)	Comparison	(see Pattern plan)	Make generalisations	NB 52 episode 9	
noticing numbers within	Inverse operations -	Find 1 less using sets of	NB 52 episodes 6 & 7	Start to learn some number	(Double Trouble)	
numbers	splitting and recombining	objects on tens frame and	(Just add one & ten	bonds for 10	Splitting into more than 2	
Comparison	sets of objects 1-5	on a number track	green bottles)	NB 52 Episode 13	parts – link to sharing	
Compare sets 1-5 using	including part whole model	Measures	Measures	(Blast Off!)	fairly in comparison	
vocab of more / fewer /	NB 51 episode 12	Length	Mass	Measures	NB S2 episode 10	
most /fewest	(Whole of me)	Shape/Space	Shape/Space	Time – sequence of events	(The three threes)	
Measures	Comparison	Spatial vocabulary (in	representing spatial	Shape/Space	Comparison	
Height	Compare numbers using	front, behind, in between,	relationships as maps	3D shapes	Focus on sharing fairly	
Pattern	vocab of more/less	on, in, under, first second,	Spatial vocabulary	properties of shapes	NB 52 episode 8	
Simple AB patterns	Find 1 more using sets of	third)	(forwards, backwards,	Patterns	(Counting Sheep)	
(complete, copy, make	objects on tens frames	Pattern	up, down, across)	Numerical patterns	Measures	
own and spot/correct	and on a number track	More complex patterns -	Pattern	odds & evens	Capacity	
errors in patterns)	Shape/Space	ABB, ABBC	Numerical Patterns -	NB 52 episode 11	Shape/Space	
	2D shapes and their	generalising pattern and	staircase patterns	(Odds & Evens)	Relationships between	
	properties	transferring to another	linked to 1 more/1 less		shapes	
	Pattern	format e.g. link pattern of	in comparison		Pattern	
	identifying unit of repeat	shapes to movements			Symmetry/reflections	
	- AB & ABC patterns				Numerical patterns	
					doubles and halves	







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romp through field and forest but they

keep getting mixed up!

Off We Got

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



approp	riace						
		Series 1 Overviev stories and mathematics					
Numl	bers to	BL	in ber	10	How to Count	It's a lovely day for a persic but sine of the Rejacks is missing to these of reg- jock-smiffer on the loose or has fined forgothen what Numberblocks dio best?	The key principles of counting: One-to-ane operapondence, match one reumber name to be item to be counted. Cardinality—the last number count is the total size of the gro-Stable order-say the number names in the conect order.
Episode	Name	Storyline	Mathematics			Three opens a stampoline park, where har friends have splatty fun making	 Subitising numbers 1 to 5 Different ways of amonging blo
1	One	A little block falls out of the sky, meets her numberling and discovers one wonderful world, singing and counting to one.	Meet One Counting to 1		inky prints of all the shapes they can make.	to 5 - Conservation of number – different arrangement of blocks to the number remains the same	
2	Another One	One discovers it's tricky to play ten- nis when you're the only block in the world. She bumps into a majic mimor and meets. Another One – and they join forces to make Two.	Meet Two 2 is one more than T	12	The Whole of Me	The Numberthocks show us what they are made of in a song and dance all about the parts that make a whole.	Composition of numbers 1 to 5 Introduction to the 'part-part-waturature of number Partitioning a whole number in parts Concervation of number – a nu
3	Two	Two finds a pair of magic dancing shoes and shows Che that everything is bet- ter with 2; singing and counting things that belong in pairs.	Counting to 2 The 'twoness' of 2			Double bouble as Four sales and a	can be partitioned but the who (total) remains the same
4	Three	Three arrives with a bang – and a song- and-dance about her favourite number.	+ Meet Three + 3 is one more than 2	13	The Terrible Twos	pair of tricky twins turn up: The Terrible Turn, who decide it's time to tickle their friends to pieces.	 4 cm be partitioned into 2 and and, 1 and 1 and 1.
5	One, Two, Three!		Counting to 3 Comparing numbers 1,2 and 3 – bigger and 'smaller'	14	Holes	Five and friends discover a hole that makes their heads full offi	The number of a group can be changed by adding to it or take from it. Addition and subtraction of T. Number bonds to S.
		ber friends. Four is the new block on the block and	Ordering numbers 1 to 3 Lis made of 2 and 1 Meet Four	15	Hide and Seek	Five is so good at hide and seek, she can find the others without looking up	 Addition and subtraction of mumbers to 5
6	Four	tour is the new oock of the cack and the can't wait to share how much he laves to be square!	His one more than 3 Counting to 4 The structure of 4 as a square number Hecognition of 4 items without counting (subhising)			from her book – but how?	Number bonds to 5
7	Five:	Fire arrives in get the hand together — and gets the party started — with a big high five!	Meet Flor S is one more than 4 Counting to 5 Line up 1 to 5 in order				
8	Three Little Pigs	The Numberblocks present their very own, very numbery version of the classic tale: The Three Little Figs and the Big Bad Square.	· Adding 1s				
9		Five and friends set off on a rhyming	+ Counting to 5				

Line up 1 to 5 in order

Identify missing numbers within a T

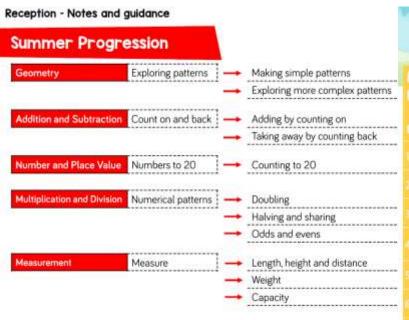


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		stories and mathematics	mha			
More o	on	M	uer			
Numbers to 10						
	Name	Storyline	Mathematics			
	Once Upon a Time	Are you sitting comfortably? Then see'll begin a hedtime story all about the first five Numberblocks.	A review of numbers 1 to 5			
	Bodzilla	Coming now to a screen near you: the monster tale of a colossal creature who really, really likes bigger mambers.	 Comparison of numbers 1 to 5 using the language of 'greater than and 'less than' 			
	The Numberblocks Express	All aboard for a riotous railway ride as the Numberblocks try to stop a runaway train.	Composition of 5 Partitioning and combining 5 in different ways			
	Fruit Salad	Welcome to the fabulious fun finit factory, where Thee's super fruit- sorting machines aren't giving her any fruit.	 Composition of numbers to 5 Exploring the part-part-whole model to partition and combine numbers to 5 			
	Zwa	When there's nothing there to count and none is the amount, nobody does it better than Zm.	Introducing the concept of zero Zero is one less than 1 and an absence of something			
	Now We Are Six to Ten	Are you sitting comfortably? Then we'll begin a bedtime story all about Numberblocks Six to Ten.	A mview of numbers 6 to 10			
	Numberblobs	Sing along to the Numberblobs counting song with the Numberblocks Taxourite friends	- Counting to 10			
	Building Blocks	The Numberblocks rescur a friendly alien who helps them build a tower to the stars.	 Building with blocks and exploring space and pattern 			
	Peekabool	The number friends take turns hiding behind each other in a song and dance all about higger and smaller.	 Comparison of numbers to 10 using the language of Tagger than leading to greater than and leading to greater than and lead than. 			
	Hiccops	Every time Numbertriock Nine hiccups, he falls to pieces – until the others find an unexpected cure.	 Composition of numbers to 10 			

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 Finding the difference to make 7
	Numberblock Rally	Ten riders, ten pedal-powered cars, but only one can lift the trophy. Welcome to the Numberblock Rally!	Subtraction
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'
14	Octoblock to the Rescuel	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
15	Ten Again	The number friends all want to do different things today, so rocket <i>Ten</i> finds a clever way to do it all.	Pairs of numbers that total 10
16	Flatland	Squarey, we're not in Numberland anymore! Four visits Flatland, where the flat shapes live, and becomes a real square.	• 2D Shape
17	Pattern Palace	One and chums carefully cross the precarious pattern puzzle paths over many magic moats to get to the Pattern Palace.	• Pattern
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
19	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
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