Blackwater Long Term Plan Maths Nursery



The first few years of a child's life are especially important for mathematics development. Research shows that early mathematical knowledge predicts later reading ability and general education and social progress. Conversely, children who start behind in mathematics tend to stay behind throughout their whole educational journey.

There are six key areas of early mathematics learning, which collectively provide a platform for everything children will encounter as they progress through their maths learning at Blackwater Primary School, and beyond. The maths curriculum for nursery is organised into key concepts (not individual objectives), which underpin early mathematics learning for our three and four year olds. Each half term has a key focus with key concepts being revisited and embedded through group sessions and continuous provision.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2					
Termly Focus	Cardinality and	Comparison	Composition	Pattern	Shape and space	Measures					
	counting	·	·								
Number	-	Counti	ng, number rhymes and so	ngs and maths through	stories are revisited do	ily.					
sense						-					
Early			en's early mathematical led								
Mathematics	 Cardinality and counting: understanding the cardinal value of a number refers to the quantity or' how manyness' of objects it represents. 										
	 Comparison: understanding that comparing numbers involves knowing which numbers are worth more or less than each other. 										
	• Composition: understanding that one number can be made up of two or more smaller numbers.										
	Pattern: looking for and finding patterns helps children notice and understand mathematical relationships.										
	Shape and Space: understanding what happens when shapes move or combine with other shapes, is key in developing wider mathematical thinking.										
	Measures: comparing different aspects such as length, weight and volume.										
Small steps	Progression across these	key areas of mathem	atics are detailed in the pr	ogression in Developme	nt Matters' 2020						
progression	NCETM provides guidance			J							
Continuous Provision	Maths activities in continuous provision will link to focus of maths learning for the week.										
Assessment	End of term summative a	ssessments.									

	Observations during group learning and CP on Tapestry											
Links to EYFS	The nursery maths programme lays the foundations essential to progress in learning in mathematics in EYFS and beyond This is achieved by children having a broad and varied experience of activities to develop the 6 key areas of mathematical understanding detailed above.											
		Pattern										
	By the end of the nursery year the children will be able to:											
	Counting, cardinality	•	Identify patterns around them Use informal language e.g. spotty, stripy etc continue, copy and create an AB pattern?									
	 consistently recite the correct sequence of numbers collect nine from a large pile, e.g. nine pencils from subitise (instantly recognise) a group that contains u 	p to four, then five,	identify the pattern rule (unit of repeat) in an AB pattern? Notice an error in a pattern.									
	 in a range of ways, e.g. fingers, dice, random arrar select a numeral to represent a quantity in a range of correct a puppet who thinks the amount has changed collection has been rearranged? 	f fonts, e.g. 4, 4?	select and rotate shapes to fit into a given space? use positional vocabulary, including relative terms, to describe where things are in small-world play? show intentionality in selecting shapes for a purpose, such as cylinders to roll? make a range of constructions, including enclosures, and talk about the decisions they have made?									
	Comparison	•	see shapes in different orientations and recognise that they are still that shape?									
Half term	 state which group of objects has more? Can they do small visual difference? compare two numbers and say which is the larger? Compare objects in terms of size, weight and capacit 	Measu	recognise a range of triangles and say how they know what they are? e ifind something that is longer, shorter, heavier, lighter (etc.) than a									
	 Subitise up to 3 objects Subitise smaller groups within a larger group of objects 	ct •	reference item? find an appropriate container for a specific item? describe the location of something using positional language? accurately use the relative terms 'yesterday' and 'tomorrow'?									
	Week 1 Week 2 Week 3	Week 4	order a short sequence of events? Week 5 Week 6 Week 2									

				Counting	Cardinality								
Daily number			Counting,	cardinalitgy, comparing	J	1							
rhymes and			3	55 1 5									
sσngs													
Autumn 1	Take part in counting	Say the numbers in	Compare amounts	Develop counting like	Subitising —	Recite numbers	Develop counting: say						
	rhyumes and songs.	sequence 1,2,3,4,5	Saying more or less	behaviour saying	recognising up to	past 5.	one number for one						
				sounds, pointing —	three objects		item.						
				saying some number	without		Saying numbers in						
				words.	counbting.		sequence.						
Fluency				Count up to 5									
Starters			Singing nu	imber rhymes and songs.									
.,													
Number Sense			Daily number sense throug	gh daily routine and coni	tinuous provision								
Autumn 2	Cardinality — last	Show fingers up to	Link numeral to	Link numeral to	Solve real world	Compare using	Comparing relating to						
	number counted is the	5.	quantity.	quanity	problems up to 4	More than less	size, weight and						
	total in the set.		1,2	3,4		then	capacity						
						Fewer than							
Fluency			•	Count up to 5									
Starters	Count backwards 5-0 Singing number rhymes and songs.												
	Show me up to 5 fingers (looking). Show me up to 5 fingers (bunny ears)												
		Sno	ow me up to 5 fingers (took	eing). Snow me up io 5 j	ingers (bunny ears)								
Number			Daily number sense through	nh dailu routine and con	tinuous provision								
Sense			J	1· J ·									
Spring 1	Subitise up to 3	Conservation:	Subitise smaller groups	Link numeral to	Solve every day	Compare using	Coparing relating to						
1 3	1	The number of	within a larger group.	quantity	problems within 5	more than less	size, weight and						
		objects does not	JJI	5	1	than fewer than	capapcity						
		change because					1 1 3						
		they are moveda											
		around.											
Fluency			Count forwa	rds and backwards up to	10								
Starters				umber rhymes and songs									
		Sh	ow me up to 5 fingers(look	ing). Show me up to 5 f	ingers (bunny ears)								
	Show me up to 5 fingers(looking). Show me up to 5 fingers (bunny ears)												
		Daily number sense through nursery routine and continuous provision											
Number		L	Daily number sense through	nursery routine and co	ntinuous provision								
Number Sense			· ·	Ŭ	,								
	Counting sequence 0-5	Repeating AB	Repeating AB pattenrs	Repeating AB linked	ntinuous provision Sequence events	Use vocabulary	Link AB, ABB, AAB						
Sense	Missing numbers	Repeating AB patterns	Repeating AB pattenrs Create — spot mistakes	Ŭ	Sequence events in a story:	of time to	patterns to counting						
Sense		Repeating AB	Repeating AB pattenrs	Repeating AB linked	Sequence events								

Fluency	Count forwards and backwards up to 10											
Starters				mber rhymes and songs								
		Show me up to s	5 fingers(looking). Show me	up to 6,7 fingers (bunn	y ears) Link to 5 and	d some more						
Number			Daily numi	ber sense with rekenrek								
Sense												
Summer 1	Select shapes for	Combine shapes to	Explore 2D shapes.	Link shape	Use positional	Explore	Use shapes comparing					
	building eg flat	make bigger ones —	In different orientations	identification to	language in play	positional	size, weight and					
	surfaces	link to positional	— and explain how they	counting and	Use Rosie's walk	language using	capacity					
		language	know what they are.	cardinality.	story	beebot./PE						
Fluency			Count forwar	 ds and backwards up to	10							
Starters				mber rhymes and songs								
		Show me up to s	5 fingers(looking). Show me		y ears) Link to 5 and	d some more						
A												
Number			Daily number sense wi	th routine and continuou	is provision.							
Sense												
Summer 2	Assessment	Assessment	Data Submission	Compare	Sequence events	Link quantities	Link quantities					
	Compare size	Compare size in		capacity/volumne	First, Next, After	numeral	numeral					
	Using vocab length,	terms of weight		Full overflowing half	that when	EYFS prep	EYFS prep					
	heighrt	Heavier than		full empty	exploring obstacle	Number blocks	Number blocks					
	Longer shorter taller	lighter than same			courses and							
	shorter	weight as			positional							
					language.							
Fluency				ds and backwards up to	10							
Starters				mber rhymes and songs								
		Show me up to 5 fi	ngers(looking). Show me up	to 6,7 ,8,9,10 fingers (b	unny ears) Link to 5	and some more						
Al I												
Number	Daily number sense through routine and continuous provision											

Blackwater Long Term Plan Maths EYFS



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2						
EYFS	Place Value	Place Value	Place Value	Place Value	Place Value	Place Value						
	Addition	Addition	Addition Subtraction	Addition Subtraction	Multiplication	Shape Measure						
	Subtraction	Subtraction			Division	·						
Number sense				Number sense		•						
			Cardinality o	and counting, Comparison, (Composition, Pattern.							
ELG	ELG Number											
		ected level of develop										
				e composition of each numb	er.							
	Subitise (re-	cgonise quantities with	hout counting) up to 5.									
	Automatically recall (without reference to number rhymes, counting etc) number bonds to 5 including some subtraction, number bonds to 10 and double facts. Column Co											
	 ELG Numerical patterns: Verbally count beyond 20 recognising the patterns 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 repeat patterns with numbers up to 10, including evens and odds, double facts and how quanties can be distributed equally. 											
F	• Explore and	i repeat patterns with	humbers up to 10, includ	iing evens ana baas, abubii	e facts and now quanties	the set is a set of set in the se						
Early Mathematics	There are six main areas that underpin children's mathematical learning in EYFS through number sense sessions, direct teaching and continuous provision. These											
Mainematics	establish the foundations for progression in all subsequent maths learning.											
	 Cardinality and counting: understanding the cardinal value of a number refers to the quantity or how manyness of objects it represents. Comparison: understanding that comparing numbers involves knowing which numbers are worth more or less than each other. 											
				e up of two or more smalle		titult outst outst.						
				notice and understand math								
						leveloping wider mathematical thinking.						
			aspects such as length, w		I · J	1 3						
Small steps	Progression across th	hese key areas of mat	hematics are detailed in	the progression documents	attached.							
progression		<u>.org.uk/in-the-classro</u>		1 3								
, ,	,	· ·	0 0									
Continuous	Maths activities in c	continuous provision w	ill link to the number of	the week or maths focus.								
Provision		•										
Assessment	Baseline assessment											
	End of term summat											
		group learning and C										
Links to KS1			dations essential to progr	ess in learning in mathema	tics in KS1 and bey ond .							
	This is achieved by	children:										

	 Building a secure understanding of number and number facts. Engaging in fluency, reasoning and problem solving activities. Using concrete, pictorial and abstract representations and models of number and consistent with those used in KSI (See calculation policy) Learning maths vocabulary consistent with that used in KSI. (See calculation policy) Participating in whole school 99 Club. 											
Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 2					
Autumn 1	Baseline Assessments	Baseline Assessments	Baseline Assessments	Number focus: 01	Number focus: 2 Week 1	Number focus: 2 Week 2	Number focus: 3 Week 1					
Fluency Starters	Count forwards and backwards up to 10 Count forwards and backwards from any number											
Number Sense		Mastering Number										
Autumn 2	Number focus: 3 Week 1 Number focus: 3 Week 2		Number focus: 4 Week 1	Number focus: 4 Week 2	Number bonds to 5 Subtraction facts to 5 Week 1	Bonds to 5 Subtraction facts Week 2	Assessment Week Bonds to 5 What makes 1,2,3,4,5					
Fluency Starters				unt forwards and backwa forwards and backwards f	,							
Number Sense	Daily number sense	with rekenrek										
Spring 1	Number focus: 6 Week 1	Number focus: 6 Week 2	Number focus: 7 Week 1	Number focus: 7 Week 2	Number focus: 8 Week 1	Number focus: 8	Assessment Week Bonds to 8 What makes 5,6,7,8					
Fluency Starters				orwards and backwards u and backwards from any								
Number Sense				Mastering Numbe	r							
Spring 2	Number focus: 9 Week 1	Number focus:9 Week 2	Number focus: 10 Week 1	Number focus: 10 Week 2	Number bonds to 10 Week 1	Number bonds to 10 Week 2	Assessment Week Bonds to 10 Subtraction Facts 10					
Fluency Starters				forwards and backwards (and backwards from any	up to 50 then 70 number up to 50 then. 70							
Number Sense				Mastering Numbe	r							

Summer 1	Comparing	Ordering Numbers Odds and ev		Double Numbers	Sharing between 2	Sharing numbers up to	Comparing linking to						
	Numbers	Week 1		Exploring links odd and	Halving into two equal	10.	weight, length,						
	Week 1			even	groups.		capacity.						
Fluency			Count f	forwards and backwards up	to 50 then 70		<u> </u>						
Starters	Count forwards and backwards up to 50 then 70 Count forwards and backwards from any number up to 50 then. 70												
Number Sense		Mastering Number											
Summer 1	Assessment and	Assessment and	Data Submission	Select, rotate and	Compose and	Continue, copy, create	Exploring measure:						
	revision Week 1	revision w=Week 2	Teen numbers —	manipulate shapes.	decompose shapes.	repeating patterns.	Time						
			ready for KS1 place	, ,	, ,	Week 1							
			value										
Fluency			Сои	int forwards and backward	s up to 100								
Starters			Count forwa	rds and backwards from an	ry number up to 100								
				ımbers — ten frames, dienes									
			' '	v	' '								
Number Sense				Mastering Number									



Long Term Plan Year 1 / 2

(Fluency topics in red visited on weekly rolling programme)

Term	Week 1	Week2	Week 3	Week4	Week 5	Week 6	Week 7	Week 8	Week9	Week 10	Week11	Week 12		
Autumn	P/Value	Addition	Subtraction	Multiply	Division	Fractions	Time	P/Value	Addition	Subtraction	Multiply	Division		
	Assessment			Place Value			Number: Addition and Subtraction							
				Numbers Numbers			Yr 1: Numb Yr 2: Numb		Yr 1 PV Yr 2: Multiplication					
Spring	Fractions	Time	P/Value	Addition	Subn	Multiply	Division	Fractions	Time	P/Value	Addition	Subn		
	Number: Yr 1 PV 50					uctions Yr1:			Shape Yr1:Shape and number Yr1:					
	Yr 2: Multiplication		Division :Fra		actions actions and			onsolidat	tion Yr 2:		Statistics			
						onssolidation		number conssolidation						
Summer	Multiply	Division	Fractions	Time	P/Value	Addition	Subn	Multiply	Division	Fractions	Time	P/Value		
	Shape	-	Time		Measurer	nent	Four Op	erations/Fi	ractions	Money Week		Asst		
	Posn Yea		ur 1 PV Statistics	-1 PV Weight Volume Tem		perature				Finana Consoli	ce Ed.	Transition		

Weeks 8-10 Reception and Year 1 join for fluency activities.

Maths Overview (2023 - 2024)



Long term Plan

<u>Year 3/4</u>

(Fluency topics in red visited on weekly rolling programme)

Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
	P/Value	Addition	Subtraction	Multiply	Division	Fractions	Time	P/Value	Addition	Subtraction	Multiply	Division	
Autumn	Assessment			Place Value			Number: Addition and Subtraction				Number: multiplication and division		
Spring	Fractions	Time	P/Value	Addition	Subn	Multiply	Division	Fractions	Time	P/Value	Addition	Subn	
	Number: Multiplication And division		Measurement: Number: Fi Length, Perimeter and Area		actions		Yr 3: Mass and Capacity Yr 4: Number- Decimals		acity nals	Consolidn			
Summer	Multiply	Division	Fractions	Time	P/Value	Addition	Subn	Multiply	Division	Fractions	Time	P/Value	
	Number: Decimals (Including money)		Measu Tin				Mass, Capacity/	Money Week/Finance Education Properties of Shape Position and movement			Asst Transition		



(Fluency topics in red visited on weekly rolling programme)

T	14/ / 1	14/ / 0	14/ / 2	14/ / /	14/ 1/	M/ / C	14/ 17	14/ / 0	14/ / 0	M/ / 10	A/ / 11	M/ / 10
Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	P/Value	Addition	Subtraction	Multiply	Division	Fractions	Time	P/Value	Addition	Subtraction	Multiply	Division
				, 3							, 3	
Autumn	Asses	ssment	Numb									
7100007070	NCETM Place					Number	Four Open	ation s			Number Fra	rtian s
			ruce v	aiae		inairadei.	rour Open	awis		'	variaber i rad	
	Guid	lelines										
Spring	Fractions	Time	P/Value	Addition	Subn	Multiply	Division	Fractions	Time	P/Value	Addition	Subn
, 0						, 0						
	Nur	nber:		Number:		Num	ber	Measure	\ \ \ \ \ \	leasure		
		Vumber	Decimals and Percentages			Year 5: d		Conv.		reter, Area		Statistics
		ctions	Decurios	Becanas and recentage			Year 6: algebra				l Volume	
						rear o. aigeara		Units And		i voiume		
		Ration										
Summer	Multiply	Division	Fractions	Time	P/Value	Addition	Subn	Multiply	Division	Fractions	Time	P/Value
	Geor	netry	Geometry	Ye.	ar 6		Μσ	ney Week/Fin	tion		Asst	
	Properties	s of shape	Position	S	ATS			Consolidation	/Investigatio	n		Transition
	'	J 1	Direction	Year 5			Year 5:					
					perations		Year 6:					
				, 500 0	wa www rus		rear o:					