Kingway Primary School – Maths pacing document for EYFS

Nurserv	(Ducklings)					
DMs sta	atements –					
Numbe	r					
•	Combine objects	like stacking blocks and cups. Put objects in	nside other and take them out again.			
•	Take part in finge	er rhymes with numbers				
•	React to changes	of amount in a group of up to three items				
•	Compare amount	ts saving 'lots', 'more', or 'same'				
•	Counting like beh	aviour, such as making sounds, pointing or	saving some numbers in sequence			
•	Count in every da	av contexts, sometimes skipping numbers –	'1-2-3-5'			
•	Climb and squeez	zing selves into different types of spaces				
•	Build with a rang	e of resources				
•	Complete inset p	uzzles				
•	Compare sizes, w	reights etc. using gesture and language – big	gger/smaller, 'high/low', 'tall', 'heavy'			
•	Notice patterns a	ind arrange things in patterns	56er, erraner, m.g., eerr, earr, mearr,			
		Autumn	Spring	Summer		
	Number rhymes	Round and round the garden				
		Two little dicky birds				
		Baa baa black sheep				
		Five little Ducks				
r.						
mbe	Provision	Stacking blocks				
Nu		Interesting shaped objects to manipulate e.g. veget	tables, wooden pegs, spoons, pans, corks, cones, balls			
	Pots and pans (mud kitchen)					
	Boxes with objects to sort					
	Key vocabulary	Key vocabulary More, lots, same Number names in order (first to 3 and then to 5)				
			-,			
	Provision	Climbing equipment				
-		Building blocks				
anc		Objects of different sizes				
ape tter		Cups and bowls				
יס ב	Containers					

Key vocabulary	On top of, up, down, through
	Big, little, smaller
	Up, down
	High, low
	Tall, short
	Heavy/light
	Pattern, repeated, the same

Nursery (pre-school year: Cygnets)

DM statements:

- Fast recognition of up to 3 objects, without having to count them individually (subitizing)
- 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 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 identify 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'...

Autumn	Spring	Summer
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	Counting concepts	Saving numbers in order up to at least 5	Saving numbers in order up to at least 10	Saving numbers in order up to and beyond 10	
	0 1 1	1-1 counting of at least 3 objects	Count backwards from 5	Count backwards from 10	
		Cardinality principle up to 3	Fast recognition of up to 3 objects	Fast recognition of up to 5 objects	
		'Grow' finger numbers up 3	1-1 counting of at least 5 objects	1-1 counting beyond 5 objects	
		Begin to be aware of numbers in the	Cardinality principle up to 5	Cardinality principle beyond 5	
		environment	'grow' finger numbers up to 5	'Show and throw' finger numbers up to 5	
			'show' finger numbers up to 3	Link numerals to amounts up to 5	
			Link numerals to amounts up to 3	'numberness' of numbers up to 5	
			'numberness' of numbers 1-3 (subitizing)	Exploring with their own symbols	
5			Comparing quantities using more and less		
hbe	Vocabularv	Count	Number names to at least 10	Number names to at least 10	
Iun	2	Point	More than		
2		Number names to at least 5	Fewer than		
			The same as		
	Maninulatives	Numicon (large and small) to 3	Numicon (large and small) to 5	Numicon (large and small) to 5	
	wampulatives	Five frames	Five frames	Five and ten frames	
		Subitizing cards to 2	Subitizing cords to 5	Subitizing cards to 5	
		Pango of interacting objects to count	Pange of interacting objects to count	Pange of interesting objects to count	
		Numberblocks to 2	Numberblocks to 5	Numberblocks to 10	
		Numerals in the environment	Numerals to E	Numerals to 10	
	Key concents	Naming and talking about 2D shapes: squares	Naming and talking about 2D shapes: squares	Naming and talking about 2D shapes: cubes	
	key concepts	triangles and circles	rectangles, circles and different types of triangles	cones cuboids	
		Use positional language with pointing	Lise positional language without pointing	Lise positional language in a range of contexts	
		Comparing size and length	Comparing size length and weight	Comparing size length weight and capacity	
		Recognising patterns in the environment	Continuing ABAB natterns	Spotting mistakes in repeating patterns	
		Recognising patterns in the environment	Recognising day and night + today, tomorrow	Becognising different times of the day:	
		drassed)	Recognising day and hight + today, tomorrow	morning afternoon evening tomorrow	
_				vesterday	
terr	Vocabulary	Square, circle, triangle	Rectangle, triangle	Cube, cone, cuboid	
oat	· · · · · · · · · · · · · · · · · · ·	Straight, round	Straight, curved, round, corner	Flat, curved	
p		Under, over, next to, between,	Under, over, next to, between, in front of, behind	Under, over, next to, between, in front of,	
ar		Bigger, smaller, longer, shorter, the same	Bigger, smaller, taller, shorter, heavier, lighter, the same	behind	
əde		as	as	More, less, the same as	
Sh		First port than	Next	Afterneen evening night time earlier	
			Daytime, hight time, earlier, later, today, tomorrow	later, too late, too soon, in a minute	
	Maniupatives/provision	Building blocks (large and small both inside and or	utside)		
		Obstacle courses			
		Pattern shapes	ittern shapes		
		Dressing up clothes/role play (related to time)			
Sand and water					
		Puzzles with a small number of pieces			

Year	Reception		
Count objects, a	ictions and sounds.		
Subitize			
Link the numbe	r symbol (numeral) with its cardinal number value		
Count beyond t	en		
Compare numb	ers		
Understand 'on	e more than/one less than' relationship between consecutive numbers		
Explore the com	position of numbers to 10		
Mathematically	Mathematically recall number bonds for numbers 0-10		
Select, rotate ar	Select, rotate and manipulate shapes in order to develop spatial reasoning skills		
Compose and d	Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.		
Continue, copy	Continue, copy and create repeating patters		
Compare length	, weight and capacity.		

Number – Mastering Maths Programme:

Strand/ Half-term	Subitising	Cardinality, ordinality and counting	Composition	Comparison
1 Children will:	 perceptually subitise within 3 identify sub-groups in larger arrangements create their own patterns for numbers within 4 practise using their fingers to represent quantities which they can subitise experience subitising in a range of contexts, including temporal patterns made by sounds. 	 relate the counting sequence to cardinality, seeing that the last number spoken gives the number in the entire set have a wide range of opportunities to develop their knowledge of the counting sequence, including through rhyme and song have a wide range of opportunities to develop 1:1 correspondence, including by coordinating movement and counting have opportunities to develop an understanding that anything can be counted, including actions and sounds explore a range of strategies which support accurate counting. 	 see that all numbers can be made of 1s compose their own collections within 4. 	 understand that sets can be compared according to a range of attributes, including by their numerosity use the language of comparison, including 'more than' and 'fewer than' compare sets 'just by looking'.

2 Children will:	 continue from first half-term subitise within 5, perceptually and conceptually, depending on the arrangements. 	 continue to develop their counting skills explore the cardinality of 5, linking this to dice patterns and 5 fingers on 1 hand begin to count beyond 5 begin to recognise numerals, relating these to quantities they can subitise and count. 	 explore the concept of 'wholes' and 'parts' by looking at a range of objects that are composed of parts, some of which can be taken apart and some of which cannot explore the composition of numbers within 5. 	 compare sets using a variety of strategies, including 'just by looking', by subitising and by matching compare sets by matching, seeing that when every object in a set can be matched to one in the other set, they contain the same number and are equal amounts.
3 Children will:	 increase confidence in subitising by continuing to explore patterns within 5, including structured and random arrangements explore a range of patterns made by some numbers greater than 5, including structured patterns in which 5 is a clear part experience patterns which show a small group and '1 more' continue to match arrangements to finger patterns. 	 continue to develop verbal counting to 20 and beyond continue to develop object counting skills, using a range of strategies to develop accuracy continue to link counting to cardinality, including using their fingers to represent quantities between 5 and 10 order numbers, linking cardinal and ordinal representations of number. 	 continue to explore the composition of 5 and practise recalling 'missing' or 'hidden' parts for 5 explore the composition of 6, linking this to familiar patterns, including symmetrical patterns begin to see that numbers within 10 can be composed of '5 and a bit'. 	 continue to compare sets using the language of comparison, and play games which involve comparing sets continue to compare sets by matching, identifying when sets are equal explore ways of making unequal sets equal.
4 Children will:	 explore symmetrical patterns, in which each side is a familiar pattern, linking this to 'doubles'. 	 continue to consolidate their understanding of cardinality, working with larger numbers within 10 become more familiar with the counting pattern beyond 20. 	 explore the composition of odd and even numbers, looking at the 'shape' of these numbers begin to link even numbers to doubles begin to explore the composition of numbers within 10. 	 compare numbers, reasoning about which is more, using both an understanding of the 'howmanyness' of a number, and its position in the number system.
5 Children will:	 continue to practise increasingly familiar subitising arrangements, including those which expose '1 more' or 'doubles' patterns use subitising skills to enable them to identify when patterns show the same number but in a different 	 continue to develop verbal counting to 20 and beyond, including counting from different starting numbers continue to develop confidence and accuracy in both verbal and object counting. 	 explore the composition of 10. 	 order sets of objects, linking this to their understanding of the ordinal number system.

	arrangement, or when patterns are similar but have a different number subitise structured and unstructured patterns, including those which show numbers within 10, in relation to 5 and 10 be encouraged to identify when it is appropriate to count and when groups can be subitised.
6	his half-term, the children will consolidate their understanding of concepts previously taught through working in a variety of contexts and with different mbers.

	Key concepts	Naming and talking about 2D shapes: squares,	Decompose shapes into component parts.	Compose shapes from component parts in
		rectangles, circles and different types of	Recognise shapes within shapes.	different ways.
		triangles.	Copy pictures and patterns containing shapes.	Copy increasingly complex pictures and
		Match shapes on top of pictures and patterns	Begin to create their own pictures and patterns	patterns
		using 2D and 3D shapes.	containing shapes.	Create their own ABAB patterns which include
		Copy and continue and ABAB pattern	Copy and continue an ABAB pattern that where	rotation. Copy and continue other patterns
_		Compare the length, weight or capacity of up to	shapes are rotated. Begin to copy and continue	e.g. ABBA, AABB etc.
ine:		3 objects.	other patterns e.g. ABBA	Compare length, weight and capacity of 3-4
oatt			Compare length, weight and capacity of 3-4	objects with increasing accuracy, verbalising
þ			objects.	reasoning.
an	Vocabulary	Square, circle, triangle, rectangle	Side, face, corner, flat, curved, copy	Side, face, corner, flat, curved, copy
ape		Cube, cone, cuboid	Turn, arch, round	Turn, arch, round
Sh		Flat, curved	Around, next to, continue, above, below	In the middle, in the corner, between, higher
		behind	'than'	than, lower than
		Bigger, smaller, Longer, shorter, taller	Longest, tallest, shortest,	'than'
		More, less, the same as	Continue	Longest, tallest, shortest,
		Repeat	Afternoon, evening, night time, earlier, later, too	Continue
		Afternoon, evening, night time, earlier,	late, too soon, in a minute, day, night	Afternoon, evening, night time, earlier, later,
		later, too late, too soon, in a minute, day,		too late, too soon, in a minute, day, night
	Maniumatiuna (musuisian	night Recourses to surgest shildren's understanding		
	ivianiupatives/provision	Resources to support children's understanding	Resources to encourage problem solving and	Challenges and resources to deepen children's
	(for number and share)	or number and become raminar with the	mathe lessens	understanding from matrix lessons.
	(ior number and snape)	equipment they will use in school:		Fauinment from providure torme
			Ton former	Equipment from previous terms +
			Ien trames	 iviore challenging games and Jigsaws

 Building blocks (large an inside and outside) Obstacle courses Pattern blocks and tang Puzzles with increasing in pieces. Numberblocks Access to manipulatives lessons: five and ten fra Hungarian number fram Subitising cards Range of interesting thin Abacus Dice Number lines Books related to number 	d small both Part-part whole models Dice beyond six Subitizing dice Calculator Pattern blocks Number games Jigsaws Used in Tangrams Rulers and metre sticks Subitizing dice Books with number themes Unifix cubes Money (2p and 5p coins) rs.	 Bead strings Tape measures Hungarian number frames Unifix cubes (towers of 10) Money (1, 2, 5, 10)
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