EYFS Statutory Framework—Mathematics

Developing a strong grounding in number is essential so that all children develop the necessary building blocks to excel mathematically. Children should be able to count confidently, develop a deep understanding of the numbers to 10, the relationships between them and the patterns within those numbers. By providing frequent and varied opportunities to build and apply this underlining—such as using manipulative, including small tens frames for organising counting—children will develop a secure base of knowledge and vocabulary from which mastery of mathematics is built. In addition, it is important that the curriculum includes rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures. It is important that children develop positive attitudes and interests in mathematics, look for patterns and relationships, spot connections, 'have a go', talk to adults and peers about what they notice and not be afraid to make mistakes.

Mathematics ELG: Number	Stepping Stones: Number	Mathematics ELG: Numerical Patterns	Stepping Stones: Numbers Patters
Children at the expected level of development	Children will begin to:	Children at the expected level of development	Children will begin to:
will:	- count forwards to 10, 20 or 40	will:	- count to and across 100, forwards and
-Have a deep understanding of number to 10,	- begin to count backwards from 10	-verbally count beyond 20, recognising the	backwards, beginning with 0 or 1, or from any
including the composition of each number; 14	- compare two sets of objects using one-to-	pattern of the counting system;	given number.
-Subitise (recognise quantities without	one correspondence	-compare quantities up to 10 in different	- use concrete objects, pictorial
counting) up to 5;	- add two or more numbers	contexts, recognising when one quantity is	representations and arrays to double and half
- Automatically recall (without reference to	- recall number bonds to 10 -subtract	greater than, less than or the same as the	numbers, count in 2s, 5s and 10s
rhymes, counting or other aids) number bonds	numbers using the 'take-away' concept	other quantity;	-recall number bonds to 10 and 20
to 5 (including subtraction facts) and some	- understand and use the part whole model to	-explore and represent patterns within	- begin to identify tens and ones in a number.
number bonds to 10, including double facts.	add and subtract	numbers to 10, including events and odds,	
	- write a family of number sentences with	double facts and how quantities can be	
	three related numbers.	disturbed equally.	

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	Autumn	Spring	Summer		
	Number				
	Comparison	Comparison	Comparison		
	To begin to compare and recognise changes in numbers of things.	To compare and recognise changes in numbers of things,	To compare two small groups of up to five objects, saying		
	Counting	using words like more, lots or same.	when there are the same number of objects.		
	To begin to say numbers in order, some of which are in the right	Counting	Counting		
	order.	To enjoy counting verbally as far as they can go.	To begin to recognise numerals 0-10		
	Cardinality	To point or touch each item, using the stable order of	Cardinality		
	To give or take two or three objects from a group, in everyday	1,2,3,4,5.	To link numerals with amount up to 5 and beyond.		
	situations.	Cardinally	To explore using a range of their own signs.		
	To begin to notice numerals.	To subitise one, two and three objects.			
	To begin to count on their fingers.	To count up to five items, recognising that the last			
		number said represents the total.			
	Spatial awareness, Shape, Pattern and Measure				
Nursery	Spatial awareness	Spatial Awareness	Spatial Awareness		
	To move their bodies and toys around objects and explores fitting	To respond to some spatial and positional language.	To respond to and use language of position and direction.		
N	into spaces.	Shape	To predict, move and rotate objects to fit the space or create a		
_	To begin to remember their way around familiar environments.	To choose items based on their shape which are	shape.		
	To explore how things look from different viewpoints.	appropriate for their purpose.	Shape		
	Shape	To respond to both informal language and common	To enjoy partitioning and combining shapes to make new		
	To choose puzzle pieces and try to fit them in.	shape names.	shapes.		
	To recognise that two objects have the same shape.	Pattern	To show awareness of shape similarities and differences		
	To make simple constructions.	To create their own spatial patterns showing some	between objects.		
	Pattern	organisation or regularity.	Pattern		
	To join in and anticipate repeated sound and action patterns.	Measure	To explore and add to simple linear patterns or two or three		
	To be interested in what happens next using the pattern of	To begin to find longer or shorter, heavier or lighter and	repeating items.		
	everyday routines.	more/less full.	To join in with simple patterns in sounds, objects, games and		
	Measure	To anticipate times of the day.	movement, predicting what comes next.		
	To explore differences in size length, weight and capacity.		Measure		
	To begin to understand some talk about immediate past and		To find longer or shorter, heavier or lighter and more/less full		
	future.		in meaningful context.		
			To recall a sequence of events in everyday life and stories.		

Reception

In Reception, we follow the NCETM Mastering Number programme as well as the White Rose Maths resources for Early Years.

home and nursery environments, and further develop their subitising and counting skills. They will explore the composition of numbers within 5. They will begin to compare sets of objects and use the language of comparison. Pupils will: • identify when a set can be subitised and when counting is needed • subitise different arrangements, both unstructured and structured, including using the Hungarian number frame • make different arrangements of numbers within 5 and talk about what they can see, to develop their conceptual subitising skills • spot smaller numbers 'hiding' inside larger numbers connect quantities and numbers to finger patterns and explore different ways of representing numbers on their fingers • hear and join in with the counting sequence, and connect this to	Autumn	Spring	Summer			
Pupils will build on previous experiences of number from their home and nursery environments, and further develop their subitising and counting skills. They will explore the composition of numbers within 5. They will begin to compare sets of objects and use the language of comparison. Pupils will: • identify when a set can be subitised and when counting is needed • subitise different arrangements, both unstructured and structured, including using the Hungarian number frame • make different arrangements of numbers within 5 and talk about what they can see, to develop their conceptual subitising skills • spot smaller numbers 'hiding' inside larger numbers connect quantities to numerals. • begin to identify missing parts for numbers within 5 explore the structure of the numbers 6 and 7 as '5 and bit' and connect this to finger patterns and pion in with the counting sequence, and connect this to finger patterns and pion in with the counting sequence, and connect this to finger patterns and pion in with the counting sequence, and connect this to finger patterns and pion in with the counting sequence, and connect this to finger patterns and counting sequence and link cannel frame • focus on equal and unequal groups when comparing numbers sectoring to their 'shape' or develop counting skills and keylore the composition of numbers within a counting sequence and link cannel the count tell groups can be called a 'double' and onnect this to finger patterns and the Hungarian number frame • focus on equal and unequal groups when comparing numbers sectoring to their 'shape' or other than 2 but 4 is only a little bit more than 2, but 4 is only a little bit more than 2, but 4 is only a little bit more than 2, but 4 is only a little bit more than 2, but 4 is only a little bit more than 2, but 4 is only a little bit more than 2, but 4 is only a little bit more than 2, but 4 is only a little bit more than 2, but 4 is only a little bit more than 2, but 4 is only a little bit more than 2, but 4 is only a little bit more tha						
Spatial Awareness, Shape, Pattern, Measure	home and nursery environments, and further develop their subitising and counting skills. They will explore the composition of numbers within 5. They will begin to compare sets of objects and use the language of comparison. Pupils will: • identify when a set can be subitised and when counting is needed • subitise different arrangements, both unstructured and structured, including using the Hungarian number frame • make different arrangements of numbers within 5 and talk about what they can see, to develop their conceptual subitising skills • spot smaller numbers 'hiding' inside larger numbers connect quantities and numbers to finger patterns and explore different ways of representing numbers on their fingers • hear and join in with the counting sequence, and connect this to the 'staircase' pattern of the counting numbers, seeing that each number is made of one more than the previous number • develop counting skills and knowledge, including: that the last number in the count tells us 'how many' (cardinality); to be accurate in counting, each thing must be counted once and once only and in any order; the need for 1:1 correspondence; understanding that anything can be counted, including actions and sounds • compare sets of objects by matching • begin to develop the language of 'whole' when talking about	Pupils will continue to develop their subitising and counting skills and explore the composition of numbers within and beyond 5. They will begin to identify when two sets are equal or unequal and connect two equal groups to doubles. They will begin to connect quantities to numerals. Pupils will: • continue to develop their subitising skills for numbers within and beyond 5, and increasingly connect quantities to numerals • begin to identify missing parts for numbers within 5 • explore the structure of the numbers 6 and 7 as '5 and a bit' and connect this to finger patterns and the Hungarian number frame • focus on equal and unequal groups when comparing numbers understand that two equal groups can be called a 'double' and connect this to finger patterns • sort odd and even numbers according to their 'shape' • continue to develop their understanding of the counting sequence and link cardinality and ordinality through the 'staircase' pattern • order numbers and play track games • join in with verbal counts beyond 20, hearing the repeated pattern within the counting numbers	Pupils will: • continue to develop their counting skills, counting larger sets as well as counting actions and sounds • explore a range of representations of numbers, including the 10-frame, and see how doubles can be arranged in a 10-frame • compare quantities and numbers, including sets of objects which have different attributes • continue to develop a sense of magnitude, e.g. knowing that 8 is quite a lot more than 2, but 4 is only a little bit more than 2 • begin to generalise about 'one more than' and 'one less than' numbers within 10 • continue to identify when sets can be subitised and when counting is necessary • develop conceptual subitising skills including when using a			
		Spatial Awareness, Shape, Pattern, Measure				