

digits or more

OPERATIONS AND CALCULATION

it Augustine's Catholic Primary School: Progression in Learning Framework - Maths

EYFS Statutory Educational Programme. The curriculum needs to include:

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 understanding – such as using manipulatives, including small pebbles and 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. There are only the connections are all areas of mathematics in due to adults.

· ·		unities for children to develop their spatial reasoning skills across all areas of mathematics including		
shape, space and measures. It is important t	nat children develop positive attitudes and inte	erests in mathematics, look for patterns and relationships, spot connections, 'have a go', talk to adults		
Knov	Nledge	Skills		
 Knowledge of Number – counting, cardinality, composition 		Includes:		
Knowledge of shapes and space including properties of shapes and relationships between shapes		counting, representing, subitising, comparing, creating patterns, partitioning, combining, sharing, measuring, describing, exploring,		
 Knowledge of measure 		manipulating,		
Providing opportunities for children to practise, rehearse Encouraging children to investigate numbers by exploring manipulated using different operations • Encouraging the and solve problems • Fostering children's acquisition and their ideas EARLY COMPARISON AND PATTERN Early Comparison / know • Ob jects can be sorted into different groups using	asons for their answers and tackle future challenges by: and apply mathematical knowledge and skills their characteristics and understanding how they can be em to think logically so that they can make connections use of mathematical vocabulary to justify and explain Early Pattern / know Patterns are repeated	I am learning to Reason Problem Solve Investigate Sort and match Count Estimate Discriminate Compare Calculate Sequence Remember		
different criteria • What is the same and what is different • What 'lots' and 'not many' of something looks like	Patterns can be continued Patterns follow a sequence	Think Explain Make connections		
COUNTING AND CARDINALITY		• Take risks		
One to one Correspondence know • How to match one object to another object or person • How to match one number name to each object when counting	Rote Counting know The order of numbers Number names	Memorise Manipulate numbers Test ideas Persevere		
Counting know • The last number say is the total amount • When to stop when counting out from a larger group • Anything can be counted	Subitising know • How many are in a group without having to count • That the same amount can be represented by different sized objects	Record Check		
Conservation I know The total amount of objects stays the same however the objects are arranged	Recognising and Reading Numbers know • Symbols represent quantities • That numbers can have one digit, two digits, three			

Partitioning a Number know	Inverse Operations know	П
• That an amount can be made up in different ways	 That halving is the opposite of doubling 	
	 That addition is the opposite of subtraction 	
	 Doubling is 2 sets of the same amount 	
Calculation / know	Number Bonds / know	
 More is greater than and less is fewer than 	 Which pairs make a given number 	
 Addition is combining sets 		
 Subtraction is taking amounts away 		
Estimation / know	Number Patterns / know	
• That estimation will give me a value that is close to	 Some number patterns e.g. odd, even 	
the right amount	 Number patterns repeat according to rules 	

Characteristics of Effective Learning that are relevant					
Playing & Exploring	Active Learning	Creating and Thinking Critically			
 Plan and think ahead about how they will explore or play with objects 	Show goal-directed behaviour	 Review their progress as they try to achieve a goal 			
and resources	 Use a range of strategies to reach a goal they have set 	Check how well they are doing			
 Make independent choices 	themselves	Solve real problems			
 Do things independently that they have been previously taught 	 Begin to correct their mistakes themselves 	 Know more, so feel confident about coming up with their own ideas 			
 Respond to new experiences that you bring to their attention 	 Keep on trying when things are difficult 	Make more links between those ideas			
 Apply learning to different contexts through their play and exploration 		Concentrate on achieving something that's important to them			
		Begin to predict sequences and patterns			

ELG: Number

Children at the expected level of development will:

- 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 to 5 (including subtraction facts) and some number bonds to 10, including double facts

ELG: Numerical Patterns

Children at the expected level of development will:

- Verbally count beyond 20, recognising the pattern of the counting system
- Compare quantities up to 10 in different contexts, recognising when one quantity if 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

Progression in Learning — Small Steps Nursery to KSI

	Nursery			Reception		
Autumn	Spring	Summer	Autumn	Spring	Summer	
Recites some numbers, not always in order Is beginning to use number names for each item, whe counting, not always correctly	Recites numbers to 5 usually in the correct order Can say number names for each item in order 1,2,3 when counting	Recites numbers past 5 Has fun counting as far as they can go and is fascinated with large numbers 'Tags' (reliably points or touches each item), using the stable order of 1,2,3,4,5 Can count things of different sizes	• count up to 5 ob jects reliably • understand that numbers can be shown in different representations • recognise the numerals 1, 2, 3, 4 and 5 • match groups of ob jects to the correct numeral -identify if a group has more or fewer ob jects: they can line up ob jects to check which group has more or fewer; they can say if groups are equal; given an amount, they can	count numbers up to 10 using one-to-one correspondence represent the numbers 6—10 on a ten frame start to recognise that they can count on using a ten frame, understanding that a full row is 5 count 6—10 objects out from a larger group use the words more and fewer to compare groups of up to 10 items	count forwards and backwards between I and IO confidently use a I—IO number track to count on or count back add or take away numbers using a first, then, now story structure explain how they know what number to start on, how many jumps to make on the number line and how to identify the answer confidently count forwards and backwards to 20	Number — number and place value • count to and across IOO, forwards and backwards, beginning with O or I, or from any given number; count, read and write numbers to IOO in numerals; count in multiples of twos, fives and tens • identify and represent numbers using objects and pictorial representations including the number line,

but may not understand the	beginning to understand	number reached when counting a small set of				
Attempts to count in play	Counts in play and is	Know that the last	Mastering Number	Mastering Number	Mastering Number	
				IO		
				number bonds to IO and subtraction number bonds to		
				relationship between addition number bonds to 10 and		
				• begin to see the inverse		
				are subtracted from 10		
				when a variety of numbers		
				• identify how many are left		
				subtraction and finding a missing part		
				• understand the structure of		the teacher
				number bonds and subtraction		with the support of
				use the vocabulary linked to		representations and arrays
				• recognise, understand and		objects, pictorial
				so must 2 and 8		answer using concrete
				2, for example, make 10, then		involving multiplication and division, by calculating the
				• understand that if 8 and		• solve one-step problems
				part-whole model to represent bonds to 10		and tens
				• use a ten frame and a		in multiples of twos, fives
				numbers with a total of 10		numerals; count
				accurately identify pairs of		numbers to 100 in
				and addition		• count, read and write
				vocabulary of number bonds		and division
				• confidently use the		Number — multiplication
				total of all the parts	groups	$7 = \square - 9$.
			whole into two parts.	altogether as the combined	sharing into two equal	number problems such as
			 use physical differences and number bonds to 5 to split a 	in a part-whole model • show that they understand	groups and odd numbers cannot • halve even numbers to 10 by	objects and pictorial representations, and missing
			and parts	parts and which is the whole	be shared into two equal	subtraction, using concrete
			• use the language of wholes	• understand which are the	• explain that even numbers can	that involve addition and
			context	same size	• identify doubles to double 5	• solve one-step problems
			and one more in the correct	that the two parts can be the	even	20, including zero
			• use the vocabulary one less	• show that they understand	• show why a number is odd or	and two-digit numbers to
			to express one more or one less	in various orientations	double and halve numbers	 add and subtract one-digit
			• tell first, then, now stories	show two parts and the whole,	-use concrete manipulatives to	subtraction facts within 20
			frame and cubes	• use a part-whole model to	numbers	bonds and related
			demonstrate this using a five	whole up to 10	resources to represent given	• represent and use number
			than a number within 5, and	• add two parts to make a	• confidently use a range of	subtraction
			• find one more and one less	and their combined whole	numbers and quantities	Number — addition and
			which group has more, fewer or the same	vocabulary of part and wholeaccurately identify two parts	and fewer to compare	beginning with 0 or 1, or from any given number;
			them in order to find out	• confidently use the	than a given number to 20 • use vocabulary such as more	forwards and backwards,
			identical objects and match	• represent numbers to 10	• identify one more and one less	count to and across 100,
			• compare two groups of non-	or counting back	resources	than (fewer), most, least
			support	between groups by counting on	set of up to 20 objects or	equal to, more than, less
				The second secon		l in the second

significance of the last	the significant of the last	objects tells you how	Pupils
number in the count	number in the count	many there are in total	experie
		(cardinal principle)	numbe
Can recognise groups of 1 or	Can recognise up to 3	Can quickly recognise up	nurser
2 objects without counting	objects without counting	to 3 objects without	furthe
them individually	them individually	having to count them	and co
<u> </u>		individually	explore
Compares quantities — `more	Compares quantities —	Compares quantities	numbe
than' — in play	`more than' `fewer than'	where amounts in the	begin 1
	in play	groups are obviously very different, - `more than'	ob jects
		'fewer than' 'the same'	of con
		Is beginning to understand	• ident
		the composition of	subitise
		numbers 2 and 3	needed
		Table 13 of 3 Z will w G	• subit
		Partitions sets of 2 and	arrang
		3 objects using a part-	unstru
		part whole model	includi
Experiments with own	Experiments with	Experiments with writing	using t
symbols and marks, which	recording quantities eg	numbers of personal	frame
might include numerals	tallying, dots	significance	numbe
			subitisi
			differ
			childre
			appreci
			are coi
			• mak
			arro
			with
			who
			see,
			cond
			• spot
			`hid
			nun
			• conr
			nun
			and
			of 1
			thei
			• hea
			the cou
			connec
			`stairc
			countir
			each n

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.

- identify when a set can be subitised and when counting is
- subitise different arrangements, both unstructured and structured, including using the Hungarian number frame (the Hungarian number frame promotes subitising and exposes different structures, allowing children to develop an appreciation of how numbers are composed).
- 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

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.

- 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
- 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 consolidate their counting skills, counting to larger numbers and developing a wider range of counting strategies. They will secure knowledge of number facts through varied practice.

- 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 IO-frame, and see how doubles can be arranged in a IO-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

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- continue to identify when sets can be subitised and when counting is necessary
- develop conceptual subitising skills including when using a rekenrek

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				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 I:I			
				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 objects			
				which have parts			
Fractions			Can 'share' from a whole			Power Maths	Number — fractions
i i delle i d			or a quantity of objects			•sort up to 5 objects into two	 recognise, find and name
			with friends			groups	a half as one of two equal
						 describe how they have sorted 	parts of an object, shape or
						the objects	quantity
						 know that there is often more 	
						than one way to sort a collection	
						 understand that a collection 	
						can be sorted into more than two	
						groups .	
						-use concrete manipulatives to	
						double and halve numbers	
						• show why a number is odd or	
						even	
						• identify doubles to double 5	
						• explain that even numbers can	
						be shared into two equal groups and odd numbers cannot	
						• halve even numbers to 10 by	
						sharing into two equal	
						groups	
Pattern	Talks about patterns in the	Can identify patterns	Extend and create ABAB	• identify patterns in the	Power Maths		Geometry — properties of
railetti	environment with adult	around them	patterns with shape and	environment, identifying	• recognise and describe		shape
	support		number	the pattern 'rule'.	patterns, for example, yellow,		• order and arrange
				·	blue, yellow, blue, yellow, blue		combinations of
	Arranges items in their own		Can spot and correct an	continue, copy and re-	or big, small, big, small, big,		mathematical objects
	patterns		error in a ABAB pattern	create repeated patterns,	small		in patterns and sequences
						1	

			Creates their own spatial	using shapes and	• continue patterns and make		
			patterns showing some	numbers (ABB).	their own patterns		
			organisation or regularity		 translate or copy patterns 		
					from one form to another;		
					such as from a colour pattern		
					into an action, sound or shape		
					pattern		
Shape	Explores 2D and 3D shapes	Explores 2D and 3D	Explores and talks about	Power Maths		Power Maths	Geometry — properties of
Stupe	e.g. through block play,	shapes e.g. through block	2D and 3D shapes	 recognise and describe some 		• sort up to 5 objects into two	shape
	puzzles, modelling, using	play, puzzles, modelling,	e.g. circle, rectangle,	3D and 2D shapes.		groups	 recognise and name
	some shape names and	using a range of shape	triangle, square	-build, describe and sort		 describe how they have sorted 	common 2D and 3D shapes,
	related mathematical	names and related	e.g. cube, cuboid, cylinder,	common 3D shapes (sphere,		the objects	including: 2D shapes [for
	language	mathematical language	cone	cylinder, cone, cube, cuboid)		• know that there is often more	example, rectangles
	3 3		using mathematical	• match 3D shapes to their		than one way to sort a collection	(including squares), circles
	Selects shapes appropriately	Combines shapes to make	language e.g. sides,	2D prints and name each of		• understand that a collection	and triangles]; 3D shapes
	e.q. cube/cuboid for a house	other shapes	corners, flat, round	these regular 2D shapes		can be sorted into more than two	for example, cuboids
	3	'		-explore which shapes will roll		groups	(including cubes), pyramids
	Combines shapes to make	Selects shapes	Chooses items based on	and slide and talk about them		• recognise common 2D shapes	and spheres]
	pictures	appropriately e.g. square	shape so they are			(triangles and squares)	Geometry — position and
	1	house with triangle roof	appropriate for specific			• recognise that shapes can be	direction
	Makes simple constructions	3 3	tasks			put together to build a new shape	 describe position, direction
	'					• build and represent a new	and movement, including
			Partitions and combines			shape by combining two or more	whole, half, quarter and
			shapes to make new			shapes	three-quarter turn
			shapes using 2D and 3D			• make a link to how numbers	
			shapes			and shapes can be partitioned	
Space	Uses ordinal vocabulary	Understands some	Understands and uses	Power Maths		Silver distribute danie de poin autoriteur	Geometry — position and
Space	'first' and 'last' in play	positional language such	positional language 'in'	use positional and directional			direction -Position and
	just and tast in play	as 'in' 'out' 'on' 'under'	`out' `on' `under' `next to'	language to follow and give			direction
	Talks about familiar places	'next to' 'behind' and uses	'behind'	instructions			• describe position, direction
	Taks about Junitar places	some of this vocabulary	bertitu	instructions			and movement, in
	Begins to remember their	some of this vocabatary	Predicts, moves and				and movement, in
	way around familiar	Recalls some parts of a	rotates objects to fit the				
	environments eg knows	familiar route	space or create the shape				
	where to find their	Januar route	they would like				
	favourite activity		irley would like				
	Javour ite activity		Describes a familiar route				
			3				
			eg in a story using simple				
<u> </u>	Uses big and small to	1 - +	directional language	Davin Matha	Power Maths	Power Maths	Measurement
Measure	-	Uses long and short to	Makes simple comparisons	Power Maths			
	compare size	compare length and tall	about:	• find one more and one	• describe the length, height	• order three familiar events	• sequence events in
	E 1 19 1.4	and short to compare	• length using longer,	• less than a number	and weight of objects using	from their day	chronological order using
	Explores 'heavy' and 'light'	height	shorter,	within 5 in the context	everyday language	• discuss what is happening in	language [for example,
	in play	11	 height using taller, 	of a first, then, now	• understand the difference	each picture	before and after, next,
	E.L. Sell' 12 4	Uses 'heavy' and 'light' to	shorter,	story structure. Use	between length, height and	• use the language related to	first, today, yesterday,
	Explores 'full' and 'empty'	compare mass	 weight using, 	pictures, objects and a	weight	time: before, after, next, then,	tomorrow, morning,
	in play	11 10 111 111 111	heavier, lighter	five frame to show		later	afternoon and evening]
		Uses 'full' and 'empty' to		what is happening			
		compare capacity					

Anticipates times of the day, such as prayer time, snack time or home time	Sequences a small number of familiar events	capacity using more/less full/empty Begins to respond to and use words such as 'before' 'after' 'soon' or 'later'	• tell first, then, now stories to express one more or one less	 use non-standard units to measure and compare length, height and weight solve problems involving length, height and weight 	describe the capacity of objects using everyday language • visually compare capacity using taught vocabulary • solve problems involving and capacity	 measure and begin to record the following: lengths and heights, mass/weight compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short,
Explores money in play	Explores money through first-hand experiences	Understands that items need to be paid for and can talk about what they would like to buy				double/half] and mass/weight [for example, heavy/light, heavier than, lighter than] • measure and begin to record the following: capacity and volume • compare, describe and solve practical problems for capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]



St Augustine's Catholic Primary School Assessment: On track/not on track using best fit for each Milestone Descriptor — Mathematical Development

Milestone	I can recite some numbers, not always in order and I am beginning to use number names for each item, not always correctly. I try to count in play but may not understand the significance of the
	last number in the count. I can recognise groups of I or 2 objects without counting them individually. I compare quantities using 'more than' in play. I experiment with symbols and marks, which
(NI	might include numerals. I talk about patterns in the environment with adult support. I explore 2D and 3D shapes using some shape names and related mathematical language, I select shapes
(Nursery- Autumn term)	appropriately to use in my learning and I combine shapes to make pictures and simple constructions. I use ordinal vocabulary 'first' and 'last' in play. I talk about familiar places and I am beginning
	to remember my way round familiar environments eg to find my favourite activity. I use 'big' and 'small' to compare size. I explore 'heavy' and 'light' and 'full' and 'empty' in play. I can
	anticipate times of the day, such as mealtimes or home time. I explore money in play
Milestone	I recite numbers to 5 usually in the correct order and I can say number names for each item in order 1,2,3. I count in play and I am beginning to understand the significant of the last number in
2	the count. I can recognise up to 3 objects without counting them individually. I compare quantities using 'more than' 'fewer than' in play. I experiment with recording quantities. I identify patterns
(Numanu Saning tanan)	around me and I explore 2D and 3D shapes using a range of shape names and related mathematical language. I combine shapes to make other shapes and I select shapes appropriately. I understand
(Nursery- Spring term)	and use some positional language and I can recall some parts of a familiar route. I use 'long' and 'short' to compare length, 'tall' and 'short' to compare height, 'heavy' and 'light' to compare mass
	and 'full' and 'empty' to describe capacity. I can sequence a small number of familiar events. I explore money through first hand experiences
Milestone	I recite numbers past 5 and say one number for each item in order I-5. I have fun counting as far as I can and I am fascinated with large numbers. I 'tag' (reliably pointing to or touching each
3	item), using the stable order 1,2,3,4,5. I count things of different sizes. I understand cardinality when counting a small set of objects. I quickly recognise up to 3 objects without counting them. I
(Nh	compare quantities where amounts are obviously very different, - using 'more than' 'fewer than' 'the same' I am starting to understand the composition of numbers 2 and 3 and can partition sets
(Nursery- Summer term)	of 2 and 3 objects using a part-part whole model. I experiment with writing numbers important to me. I 'share' from a whole or a quantity of objects. I extend and create ABAB patterns with
	shape and number and I can spot and correct an error in an ABAB pattern. I create my own spatial patterns showing some organisation or regularity. I explore and talk about some 2D and 3D

	shapes using some mathematical language, and I can partition and combine shapes to make new shapes. I understand and use some positional language. I can predict, move and rotate objects to fit a space. I can describe a familiar route using simple directional language. I make simple comparisons about length, height, weight and capacity. I am beginning to respond to and use words such as 'before', 'after', 'soon' or 'later'. I understand that items need to be paid for and can talk about what I want to buy
Milestone 4 (Reception- Autumn term)	I can talk about numbers to 5 in the wider world e.g. objects at home/classroom, my age, number of pets/siblings I have etc. I can confidently count up to 5 and can recognise and represent numbers up to 5, following models that have been covered in the lesson. I can identify if a group has more or fewer objects. I can line up objects to check which has more or fewer. I can say if groups are equal. Given an amount, I can show more or fewer with support. I can compare two groups of non-identical objects and match them in order to find out which has more, fewer or the same. I can independently describe and show one more using manipulatives and in a drawing. I can independently show one less than 5 using a variety of objects or drawings. I can confidently use the language of whole and parts and can use physical differences and number bonds to 5 to split a whole into two parts. I can tell first, then and now stories using objects I can use positional and directional language to follow and give instructions. I am starting to use more positional vocabulary. I can build, describe and sort common 3D shapes (sphere, cylinder, cone, cube, cuboid). I can match 3D shapes to their 2D prints and name each 2D shape. I explore which shapes will roll and slide and talk about them. I can recognise and describe some more 3D and 2D shapes. I can engage with 3D and 2D map-making in familiar environments, sequencing landmarks and designing small worlds. I can spot patterns in the environment, identifying the pattern 'rule'. I continue, copy and re-create repeated patterns, using shapes and numbers (ABB). I describe a familiar route using directional
Milestone 5 (Reception- Spring term)	language. I can count to IO using one-to-one correspondence. I can represent numbers to IO on a ten frame. I am starting to recognise that I can count on using a ten frame and understand that a full row is 5. I can count objects out from a larger group. I can represent number bonds to IO in a variety of ways, including using a part-whole model. I understand that the whole is the total of the parts. I can use the language of part and whole. I can count how many in each part and recount to find how many altogether in the whole group. With some support, I can use ten frames to help me work out how many altogether and how many more. I use the words more and fewer to compare groups and I am beginning to find the difference between groups. I am able to represent a subtraction number bond to IO using resources in a part-whole model. I understand the structure of the subtraction calculation/ story and am able to apply the taught method efficiently. I can find objects that are heavier and lighter than a given object, use balance scales to check and describe the comparison using stem sentences. I can use the appropriate vocabulary of longer, shorter and taller when describing items I have measured. I understand and can use the measuring technique of lining up items and measuring, starting from a common baseline. I am beginning to measure length, height and distance using common non-standard units I can recognise simple and some more complex ABC, ABB or AAB patterns. I can explain what makes it a pattern, describe or identify what part repeats and can continue the pattern. I can build and translate AB, ABB or AAB patterns using objects, actions and sounds.
Milestone 6 (Reception- Summer term)	I recite numbers beyond 20, from different starting points, in the right order and recognise the pattern when counting. I can represent numbers to 20 in a variety of ways. I can confidently and accurately count on from a given number to find a total and count back from a given number to find out where I will land. I can use first, then, now stories to explain how I worked out an answer and why that answer is correct. I count, including crossing boundaries 19/20 and 29/30 and I can count things that cannot be moved. I link numerals with the cardinal number value — to 20. I recognise amounts that have been rearranged and know that, if nothing is added/ taken away, the amount is the same. I compare quantities of objects arranged in different ways — using 'more than' 'less than' 'fewer' 'the same as' 'equal to', (up to 10 objects). I can explain 'I more than/ I less than' relationship between sequential numbers within 10. I can partition sets of up to 10 into two groups and recognise that the whole number can be recombined as pairs of numbers to make the same total. I can share an even number of concrete items into two equals proups. I can complete stem sentences. I can identify odd and even numbers and use sharing into groups to support them. I can sort 5 objects into two groups and describe how I have sorted the objects. I am beginning to explore and work out mathematical problems, using signs and strategies of my own choice. I can recall most number bonds to 10, including all double facts and I can explain the pattern. I can write numbers 0-20. I understand that halving is sharing into two equal parts and doubling is adding the same number to itself. I can continue and create repeating patterns, spotting errors. I can talk about patterns of numbers within 10, including odds and evens and number facts. I recognise common 2D shapes. I recognise that shapes can be put together to build a new shape. I am able to build and represent a new shape by combining two or more shapes. I show an understanding of how numbers