Waterville Primary School Progression of Skills and Vocabulary in MATHS

EYFS

EYFS Statutory Educational Programme:

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, 'have a go', talk to adults and peers about what they notice and not be afraid to make mistakes.

3 and 4-year olds will be learning to:

- *Develop fast recognistion 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 tell you how many there are in total (cardinal principle).
- *Show finger numbers up to 5.
- *Link numerals and amounts.
- *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.

Children in Reception will be learning to:

- *Count objects, actions and sounds.
- *Subitise.
- *Link the number symbol (numeral) with its cardinal number value.
- *Count beyond ten.
- *Compare numbers.

- *Explore the composition of numbers to 10.
- *Automatically recall number bonds for number 0-5 and some to 10.
- *Select, rotate and manipulate shapes 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 patters.
- Compare length, weight and capacity.

See Highlighted vocabulary from Reception

TEACH - MODEL - USE MANIPULATIVES - RECORD - INVESTIGATE - MASTER - REPEAT

Nursery
Early
Learning
Goals
Maths
Skills

,	Autumn	Spring	Summer				
Ī	Number	Number	Number				
	To say the number names in order.	To recite numbers to 10.	To recognise numerals to 10.				
	To subitise to 3.	To say one number name for each item.	To count up to 10 objects.				
	To know the last number reached is how many.	To know the last number is 'How many'.	To recognise the link between number of objects and numerals.				
_	To compare quantities, more, less, the same.	To begin to recognise numerals to 5 and make own symbols/numbers.	To solve real world number problems to 5 or 10.				
g		To count up to 5 objects accurately.	To quickly subitise numbers to 5.				
O	Numerical Patterns & Shape		To explore the composition of 2,3,4,5 and make marks to represent				
	To complete insert puzzles.	Numerical Patterns & Shape	numerals.				
	To discriminate between the same and different.	To learn the days of the week and words associated with time.					
	To make sets of objects and sort objects to a given criteria.	To extend and create repeating patterns.	Numerical Patterns & Shape				
	To notice simple patterns and to continue a simple ABAB.	To recognise and name 2D shapes.	To begin to learn about 3D shapes.				
	To be familiar with patterns in routines.	To combine shapes to make new ones.	To extend and create repeating patterns.				
	To talk about and explore 2D shapes.	To make comparisons between objects.	To describe a familiar route.				
			To solve practical problems in play.				
	Vocabulary						

Reception Early	Autumn	Spring	Summer			
Reception	Number	Number	Number			
TI	To count objects, actions and sounds.	To count objects, actions and sounds.	To count objects, actions and sounds.			
Eariv	To subitise.	To subitise.	To subitise.			
		To link the number symbol (numeral) with its cardinal number value.	To link the number symbol (numeral) with its cardinal number value.			
Learning	value.	To count beyond ten.	To count beyond ten.			
Learning	N 1 1 2 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2	To compare numbers.	To compare numbers.			
_	Numerical Patterns	w	To explore the composition of numbers to 10.			
Goals	To select, rotate and manipulate shapes to develop spatial	Numerical Patterns	To automatically recall number bonds for number 0-5 and some to 10.			
dodis	reasoning skills	To select, rotate and manipulate shapes to develop spatial reasoning	Numerical Patterns			
N/ - +1	To continue, copy and create repeating patters.	skills To continue convend greate repeating patters	To select, rotate and manipulate shapes to develop spatial reasoning skills			
Maths		To continue, copy and create repeating patters. To compose and decompose shapes so that children recognise a shape	To continue, copy and create repeating patters.			
		can have other shapes within it, just as numbers can.	To compose and decompose shapes so that children recognise a shape can			
Skills		can have other shapes within it, just as numbers can.	have other shapes within it, just as numbers can.			
SKIIIS			To compare length, weight and capacity.			
			company of the confidence of t			
	Vocabulary					
	Number and Place Value Addition and Subtraction	Multiplication and Division Measurement	Properties of Shape Position and Direction			

·								
	Vocabulary							
	Number and Place Value Addition and Subtraction Multiplication and		Multiplication and Division	Measurement			Properties of Shape	Position and Direction
	Number and Place Value Count, subitise, order/ordinal, compare, forwards, backwards, numerals, digit, one more, one less, equal to, more than, less than.	Addition and Subtraction Add, plus, altogether, total, take-away/minus, number bonds, part, whole, digit.	Multiplication and Division Double, half, twice as many, equal unequal, share, group, odd, even.	Measure and Length Measure Wide(er) Narrow Compare Longer Shorter length	Height, Weight and Capacity Height Longer Shorter Taller, weight Capacity Heavy Light Bigger Full Empty More Less Half full	Time Time Quicker Slower Earlier Later Before After First Next Today Yesterday Tomorrow Morning Afternoon Evening Day Week Hour	Properties of Shape 2-D shapes Rectangles Square Circle Triangle Characteristics 3-D shapes Cuboids Cubes Cone Spheres Curved Straight flat	Position and Direction Over Under Between Around Through On Into Next to Behind Beneath Order Repeat Patterns On top of