Leigh St Peter's CE Primary School

"Let Your light Shine" Matthew 5:16

Maths Curriculum

Term	Number of Weeks depends on the ability of the children								
Autumn	 <i>Cardinality and Counting :</i> Children to recite numbers in order using a range of number songs <i>Comparisons:</i> Collections to sort—obvious differences in objects. <i>Measure</i> (Recognising attributes) Water / Sand Play—filling containers. <i>Shape and Space</i> (Spatial awareness and viewpoints / Spatial relationships / similarities between shapes) Riding bike and trikes. 								
Spring	 Cardinality and Counting : Children to recite numbers in order using a range of number songs Stable order principle - Rote counting Shape and Space (Spatial awareness and viewpoints / Spatial relationships / similarities between shapes) Riding bike and trikes, constructing, jigsaws, posting boxes. Cardinality and Counting : Children to recite numbers Stable order principle - Rote counting Cardinality and Counting: Children to begin to count objects 'Give me two, three' etc One to One counting principle—count by tagging each item as it is counted and assigning a name to each item. Lift and move Measure (Recognising attributes) Play dough—length of snakes, weight of lumps. Shape and Space (Spatial awareness and viewpoints / Spatial relationships / similarities between shapes) Making pictures and patterns with shapes. 								
Summer	 Cardinality and Counting : Children to recite numbers in order using a range of number songs Stable order principle - Rote counting Shape and Space (Spatial awareness and viewpoints / Spatial relationships / similarities between shapes) Riding bike and trikes, constructing, jigsaws, posting boxes,. Cardinality and Counting : Children to recite numbers Cardinality and Counting: Children to begin to count objects 'Give me two, three' etc One to One counting principle—count by tagging each item as it is counted and assigning a name to each item. Lift and move Measure (Recognising attributes) Discussing long, heavy. More. Adults to model vocabulary. (No comparisons need to be made at this point.) Shape and Space (Spatial awareness and viewpoints / Spatial relationships / similarities between shapes) Printing and making pictures and patterns with shapes. 								

Early Years Mathematics: Nursery (3 and 4 year olds)

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. (Working with the revised Early Years Foundation Stage: Principles into Practice, Julien Grenier)

Autumn		Spring	Summer						
Lea	Learning Priorities								
<u>Nu</u>	<u>nerical Pattern and Number</u>	Numerical Pattern / Number	Numerical Pattern / Number						
•	Begin to compare quantities group, lots, more, same,	 Name and talk about patterns 	 Extend and create ABAB patterns 						
	less	 Continue and talk about a pattern – ABAB 	 Recite numbers past 5 						
	Sort, match and label groups	 Recite numbers to 5 	 Fast recognition of up to 3 objects - subitising 						
	Find the group with more / the same / less	• Join in with number rhymes to 5 using props and fingers	 Say one number for each item in order: 1,2,3,4,5. 						
•	Notice, identify and talk about patterns around them	 Use fingers to represent numbers with increasing 	 Know that the last number reached when counting a small set of objects 						
	Clothing	accuracy	tells you how many there are in total ('cardinal principle').						
	Autumn	 Use some numbers names in play with some accuracy 	 Show 'finger numbers' up to 5. 						
•	Begin to copy and talk about a pattern – ABAB	 Sort and match objects accordingly e.g. size / shape 	 Link numerals and amounts up to 5 						
	Patterns with objects / actions	 Begin to compare quantities using more than / fewer 	 Experiment with own symbols and marks as well as numerals. 						
	 Give pattern a name 	than	 Solve real world mathematical problems with numbers up to 5 						
•	Begin to recite numbers to 5 in correct order	 Fast recognition of objects up to 1 and sometimes 2 – 	 Compare quantities using language: 'more than', 'fewer than' 						
•	Explore 1:1 correspondence	subitising							
	 Heuristic play free exploration 	 Begin to count up to sets of 5 objects (1:1 correspondence) 	<u>Shape, Space & Measure</u>						
•	Begin to say one number for each item to 3	 Begin to represent numbers with marks 	 Talk about and explore 2D and 3D shapes 						
	Join in with number rhymes / songs with props &		 Understand position through words 						
	actions	Shape, Space & Measure	 Describe a familiar route 						
	Use some number names in play	 Select shapes appropriately in a range of contexts 	 Make comparisons between objects relating to size, length, weight and 						
		 Begin to combine shapes to make new ones 	capacity						
Sho	ipe, Space & Measure	 Talk about shapes 	• Select shapes appropriately: flat surfaces for building, a triangular prism for						
•	Begin to select shapes for appropriate tasks	 Make comparisons between objects using appropriate 	a roof etc.						
	Show interest in shapes in the environment	vocabulary	 Combine shapes to make new ones 						
	Manipulate and turn shapes	 Understand positional language 	 Talk about and identifies the patterns around them. 						
•	Begin to talk about shapes round, pointy, spotty,	 Begin to use some language of time within the daily 	 Extend and create ABAB patterns 						
	stripy	routine	 Begin to describe a sequence of events, real or fictional, using words such as 						
•	Make comparisons between objects using appropriate	 Begin to describe a familiar route 	'first', 'then						
	vocabulary	 Begin to describe a sequence of events first, next 							
	Size big / small / bigger / smaller								
•	Understand positional language within daily routine								
	in / on / under								
•	Begin to understand the language of time within the								
	daily routine next, later, after								

Term	Number of Weeks depends on the ability of the children							
Autumn	Cardinality and Counting : Children to recite numbers in order using a range of number songs Stable order principle - Rote counting (to 10 or above if appropriate) Shape and Space (Spatial awareness and viewpoints / Spatial relationships / similarities between shapes) Riding bike and trikes, constructing, jigsaws, posting boxes, a complete circuit for a train or car. Cardinality and Counting: Children to recite numbers to 5. Cardinality and Counting: Children to begin to count objects 'Give me two, three' etc One to One counting principle—count by tagging each item as it is counted and assigning a name to each item. Measure (Recognising attributes) Discussing long, heavy. More. Adults to model vocabulary. (No comparisons need to be made at this point.) Shape and Space (spatial awareness and viewpoints / spatial relationships / similarities between shapes) Printing and making pictures and patterns with shapes.							
Spring	 Comparisons: Collects to sort and compare—obvious differences in amounts. Cardinality and Counting: To begin to recognise numbers 1-5 and practice these regularly (Introduce one number at a time) Shape and Space (spatial awareness and viewpoints / spatial relationships / similarities between shapes) Language Position: on, under, in Direction: Up, down, across hunting for objects / Acting like robots / Small World Opportunities. Cardinality and Counting: To continue to recognise numbers 1-5 and begin to match objects to quantity. Cardinality and Counting: One to One counting principle—count by tagging each item as it is counted and assigning a name to each item. Cardinality and Counting: Cardinal principle—that the last number is how many items you have counted. Up to 5. Measure (Recognising attributes) Discussing ong, heavy. More. Adults to model vocabulary. (No comparisons need to be made at this point.) 							
Summer	 Cardinality and Counting: To begin to recognise numbers 6-10 (One number at a time) Revisit 1-5 Cardinality and Counting: One to One counting principle—count by tagging each item as it is counted and assigning a name to each item. Cardinality and Counting: Cardinal principle—that the last number is how many items you have counted. Up to and beyond 5. Shape and Space: (spatial awareness and viewpoints / spatial relationships / similarities between shapes) Children to construct a bridge, den, towers using a variety of structured and unstructured materials, investigating which shapes work and which did not work. Measure (Recognising attributes) Discussing long, heavy. More. Adults to model vocabulary. (No comparisons need to be made at this point.) Sand and water play. 							

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12		
Autumn	Getting to know you Baseline Assessments		Just Like Me!		It's me 1, 2, 3!		Light and Dark							
Number	Opportunities for settling in and introducing the areas of provision. Key times of day, class routines. Exploring the continuous provision			Match and Sort Compare Amounts			Representing 1, 2 and 3 Comparing 1, 2 and 3 Composition of 1, 2 and 3		Representing numbers to 5. One More and one Less.					
Measure, Shape and Spatial Thinking	Where d	Where do things belong? Positional Language.Compare Size, Mass and CapacityCircles and TrianglesExploring PatternPositional Language		es	Shapes with 4 sides. Time.									
Spring	Alive in 5!				Grow 6, 7, 8		Building 9 and 10			Consolidation				
Number	Introducing Zero. Comparing numbers to 5.			Introducing Zero. 6, 7 and 8 Comparing numbers to 5. Combining 2 amounts		Counting to 9 and 10 Comparing numbers to 10 Bands to 10								
Measure, Shape and Spatial Thinking	Compare mass (2) Compare capacity (2)			Compare mass (2) Compare capacity (2) Length and Height Time		3D Shapes Patterns								
Summer		To 20 and Be	jond!	First, Now, Then				Find my Pattern			On the Move			
Number	Builc Coun	ding numbers ting patterns	Beyond 10 Beyond 10.	Adding More Taking Away			Doubling Sharing and Grouping Even and Odd			Deepening Understanding Patterns and Relationships				
Measure, Shape and Spatial Thinking	Spatial Reasoning (1) Match, Rotate, Manipulate Compose and Decompo		(2) pose	Spatial Reasoning (3) Visualise and Build			Spatial Reasoning (4) Mapping							