POST LIGHT SHIPLE

EYFS - Mathematics

Rural Church Schools Academy Trust

Progression of Knowledge and Skills



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	Reception Autumn	Reception Spring	Reception Summer	ELG			
	•	' ' '	•	Checkpoint			
		Count objects, actions and sounds.		Chican point			
		Subitise.					
	ι	ink the number symbol (numeral) with its cardinal number value	2.				
		Count beyond 10.					
	Understand ·						
	A	Have a deep understanding of number to					
	Develop the key skills of counting objects including saying the numbers in order and matching one number name to	Discuss the different ways children might record quantities (for example, scores in games), such as tallies, dots and	Have a sustained focus on each number to and within 5. Make visual and practical displays in the classroom showing	10, including the composition of each			
	each item.	using numeral cards.	the different ways of making numbers to 5 so that children	number.			
	Say how many there are after counting - for example, "6,	Count verbally beyond 20, pausing at each multiple of 10 to	can refer to these.	Subitise (recognise quantities without			
	7, 8. There are 8 balls" - to help children appreciate that	draw out the structure, for instance when playing hide and	Help children to learn number bonds through lots of hands-	counting) up to 5.			
	the last number of the count indicates the total number of	seek, or to time children getting ready.	on experiences of partitioning and combining numbers in	Automatically recall (without reference			
	the group. This is the cardinal counting principle.	Provide images such as number tracks, calendars and	different contexts, and seeing subitising patterns.	to rhymes, counting or other aids)			
	Say how many there might be before you count to give a	hundred squares indoors and out, including painted on the	Play hiding games with a number of objects in a box, under a	number bonds up to 5 (including			
	purpose to counting: "I think there are about 8. Shall we	ground, so children become familiar with two-digit numbers	cloth, in a tent, in a cave, etc.: "6 went in the tent and 3	subtraction facts) and some number			
	count to see?"	and can start to spot patterns within them.	came out. I wonder how many are still in there?"	bonds to 10, including double facts.			
	Count out a smaller number from a larger group: "Give me	Provide collections to compare, starting with a very	Intentionally give children the wrong number of things. For				
	seven"	different number of things. Include more small things and	example: ask each child to plant 4 seeds then give them 1, 2				
<u>.</u>	Knowing when to stop shows that children understand the	fewer large things, spread them out and bunch them up, to	or 3. "I've only got 1 seed, I need 3 more."				
Number	cardinal principle. Build counting into everyday routines such	draw attention to the number not the size of things or the	Spot and use opportunities for children to apply number bonds:				
	as register time, tidying up, lining up or counting out pieces of fruit at snack time.	space they take up. Include groups where the number of items is the same.	"There are 5 of us but only 2 clipboards. How many more do				
	Sing counting songs and number rhymes and read stories	Use vocabulary: 'more than', 'less than', 'fewer', 'the same	we need?"				
	that involve counting.	as', 'equal to'.	Place objects into a five frame and talk about how many				
	Play games which involve counting.	Encourage children to use these words as well.	spaces are filled and unfilled.				
	Identify children who have had less prior experience of	Make predictions about what the outcome will be in stories,	·				
	counting and provide additional opportunities for counting	rhymes and songs if one is added, or if one is taken away.					
	practice. Show small quantities in familiar patterns (for	Provide 'staircase' patterns which show that the next					
	example, dice) and random arrangements.	counting number includes the previous number plus one.					
	Play games which involve quickly revealing and hiding	Distribute items evenly, for example: "Put 3 in each bag," or					
	numbers of objects.	give the same number of pieces of fruit to each child. Make deliberate mistakes to provoke discussion.					
	Put objects into five frames and then ten frames to begin to familiarise children with the tens structure of the	Tell a story about a character distributing snacks unfairly					
	number system. Prompt children to subitise first when	and invite children to make sure everyone has the same.					
	enumerating groups of up to 4 or 5 objects: "I don't think	Provide a range of visual models of numbers: for example,					
	we need to count those. They are in a square shape so there	six as double three on dice, or the fingers on one hand and					
	must be 4." Count to check.	one more, or as four and two with ten frame images.					
	Encourage children to show a number of fingers 'all at once',	Model conceptual subitising: "Well, there are three here					
	without counting. Display numerals in order alongside dot	and three here, so there must be six."					
	quantities or tens frame arrangements.	Emphasise the parts within the whole: "There were 8 eggs					
	Play card games such as snap or matching pairs with cards	in the incubator.					
	where some have numerals, and some have dot	Two have hatched and 6 have not yet hatched."					
	arrangements.	Plan games which involve partitioning and recombining sets.					

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	Focus on composition of 2, 3, 4 and 5 before moving onto	For example, throw 5 beanbags, aiming for a hoop. How		
	larger numbers	many go in and how many don't?		
	Sel	ect, rotate and manipulate shapes to develop spatial reasoning s	kills.	
	Compose and decompose sh	apes so that children recognise a shape can have other shapes w	rithin it, just as numbers can.	
	·	Continue, copy and create repeating patterns.	•	
Numerical Patterns		Compare length, weight and capacity.		
<u> </u>	Provide high-quality pattern and building sets, including	Investigate how shapes can be combined to make new	Make patterns with varying rules (including AB, ABB and	Verbally count beyond 20, recognising the
+				
a	pattern blocks, tangrams, building blocks and magnetic	shapes: for example, two triangles can be put together to	ABBC) and objects and invite children to continue the	pattern of the counting system.
۵	construction tiles, as well as found materials.	make a square. Encourage children to predict what shapes	pattern.	Compare quantities up to 10 in different
ਰ	Challenge children to copy increasingly complex 2D pictures	they will make when paper is folded. Wonder aloud how	Make a deliberate mistake and discuss how to fix it.	contexts, recognising when one quantity is
. <u>Ů</u>	and patterns with these 3D resources, guided by knowledge	many ways there are to make a hexagon with pattern blocks.	Model comparative language using 'than' and encourage	greater than, less than or the same as the
<u> </u>	of learning trajectories:	Find 2D shapes within 3D shapes, including through printing	children to use this vocabulary. For example: "This is	other quantity.
Ě	"I bet you can't add an arch to that," or "Maybe tomorrow	or shadow play.	heavier than that."	Explore and represent patterns within
3	someone will build a staircase."		Ask children to make and test predictions. "What if we pour	numbers up to 10, including evens and odds,
_	Teach children to solve a range of jigsaws of increasing		the jugful into the teapot? Which holds more?"	double facts and how quantities can be
	challenge.		The jugici into the reapon? Which holds there?	distributed equally.
	chanenge.			distributed equally.
	White Rose Units to be covered	White Rose Units to be covered	White Rose Units to be covered	
	Getting to know you (2 weeks - baseline)	Alive in 5 (2 weeks)	To 20 and beyond (2 weeks)	
	• Establish maths through routines (tens frame buses, 100	· Introduce zero	Build numbers beyond 10 (10-13)	
	I	• Find 0 to 5		
	days in		· Continue patterns beyond 10 (10-13)	
Maths	school, calendar activities)	• Subitise 0 to 5	Build numbers beyond 10 (14-20)	
		• Represent 0 to 5	Continue patterns beyond 10 (14-20)	
	Match, Sort & Compare (2 weeks)	· 1 more	 Verbal counting beyond 20 	
_ 	· Match objects	· 1 less	 Verbal counting patterns 	
Š	Match pictures and objects	 Composition 		
	· Identify a set	· Conceptual subitising to 5	How many now? (1 week)	
Š	· Sort objects to a type	J	· Add more	
Rose	· Explore sorting techniques	Mass and Capacity (1 week)	· How many did I add?	
ā	· Create sorting rules	· Compare mass	· Take away	
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Whi	· Compare amounts	• Find a balance	· How many did I take away?	
>		• Explore capacity		
	Talk about measure and patterns (2 weeks)	Growing 6, 7, 8 (2 weeks)	Manipulate, compose and decompose (2 weeks)	
	• Compare size	• Find 6, 7 and 8	· Select shapes for a purpose	
	· Compare mass	• Represent 6, 7, and 8	· Rotate shapes	
	· Compare capacity	· 1 more	· Manipulate shapes	
	· Explore simple patterns	· 1 less	· Explain shape arrangements	
	· Copy and continue simple patterns	• Composition of 6, 7 and 8	· Compose shapes	
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· Create simple patterns

It's Me 1, 2, 3 (2 weeks)

- Find 1, 2 and 3
- Subitise 1. 2 and 3
- Represent 1, 2 and 3
- · 1 more
- · 1 less
- Composition of 1, 2 and 3

Circles and triangles (1 week)

- Identify and name circles and triangles
- Compare circles and triangles
- · Shapes in the environment
- Describe position

1, 2, 3, 4, 5 (2 weeks)

- Find 4 and 5
- · Subitise 4 and 5
- · Represent 4 and 5
- · 1 more
- 1 less
- Composition of 4 and 5
- · Composition of 1-5

- · Make pairs-odd and even
- · Double to 8 (find a double)
- · Double to 8 (make a double)
- · Combine 2 groups
- · Conceptual subitising

Length, Height and Time (1 week)

- · Explore length
- · Compare length
- · Explore height
- · Compare height
- · Talk about time
- · Order and sequence time

Building 9 and 10 (3 weeks)

- Find 9 and 10
- · Compare numbers to 10
- · Represent 9 and 10
- · Conceptual subitising to 10
- · 1 more
- · 1 less
- · Composition to 10
- Bonds to 10 (2 parts)
- · Make arrangements of 10
- · Bonds to 10 (3 parts)
- · Doubles to 10 (find a double)

- · Decompose shapes
- · Copy 2D shape pictures
- Find 2D shapes within 3D shapes

Sharing and grouping (2 weeks)

- · Explore sharing
- Sharing
- · Explore grouping
- Grouping
- · Even and odd sharing
- · Play with and build doubles

Visualise, build and map (3 weeks)

- Identify units of repeating patterns
- · Create own pattern rules
- Explore own pattern rules
- Replicate and build scenes and constructions
- · Visualise from different positions
- Describe positions
- Give instructions to build
- · Explore mapping
- · Represent maps with models
- · Create own maps from familiar places
- · Create own maps and plans from story situations