

MATHEMATICS (M)

Academic Year: 2021/22

- To shape teaching and learning in this area, we use:
 - the Development Matters guidance for Nursery
 - White Rose Maths for Reception

DEVELOPMENT MATTERS GUIDANCE for 3&4 year olds

Children will be learning to:

- Develop fast recognition 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 tells you how many there are in total ('cardinal principle'). Show 'finger numbers' up to 5.
- Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5.
- 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 (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'.
- Understand position through words alone – for example, "The bag is under the table," – with no pointing.
- Describe a familiar route. Discuss routes and locations, using words like 'in front of' and 'behind'.
- Make comparisons between objects relating to size, length, weight and capacity.
- Select shapes appropriately: flat surfaces for building, a triangular prism for a roof, etc.
- Combine shapes to make new ones – an arch, a bigger triangle, etc.
- Talk about and identify the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper.
- Use informal language like 'pointy', 'spotty', 'blobs', etc.
- Extend and create ABAB patterns – stick, leaf, stick, leaf.
- Notice and correct an error in a repeating pattern.
- Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...'

WHITE ROSE MATHS for Reception

AUTUMN	Week 1	Week 2	Week 3		Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Getting to know you			Phase	Just like me!			It's me 1,2,3!			Light & dark		
	Opportunities for settling in, introducing areas of EYFS provision and getting to know the children			Number focus	Match & sort Compare amounts			Representing 1,2 & 3 Comparing 1,2 & 3 Composition of 1,2 & 3			Representing numbers to 5 One more and less		
	Key times of the day and class routines. Exploring the provision inside and out. Identifying where things belong. Positional language.			Measure, shape and spatial thinking	Compare size, mass & capacity Exploring pattern			Circles and triangles Positional Language			Shapes with 4 sides Time		

SPRING	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9
Phase	Alive in 5!			Growing 6,7,8			Building 9 & 10		
Number focus	Introducing zero Comparing number to 5 Composition of 4 & 5			6,7, 8 Making pairs Combining 2 groups			9 & 10 Comparing numbers to 10 Bonds to 10		
Measure, shape and spatial thinking	Compare mass (2) Compare capacity (2)			Length & Height Time			3D shape Pattern (2)		

SUMMER	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Phase	To 20 and beyond			First, Then, Now			Find my pattern			On the move		
Number focus	Building number beyond 10 Counting patterns beyond 10			Adding more Taking away			Doubling Sharing & grouping Even & odd			Deepening understanding Patterns & relationships		
Measure, shape and spatial thinking	Spatial reasoning (1) Match, rotate, manipulate			Spatial reasoning (2) Compose and decompose			Spatial reasoning (3) Visualise & build			Spatial reasoning (4) Mapping		