

Maths Road Map (EYFS)

EYFS Framework (2021) and Goals linked to the Primary National Curriculum. This document should be used alongside the White Rose Primary Progression Document to see progression across the whole school.

	3 to 4	Reception	Early Learning Goal
Place Value: Counting	<ul style="list-style-type: none"> Recite numbers past 5. Say on number for each item in order: 1, 2, 3, 4, 5. Know the last number reached when counting a small set of objects tells you how many there are in total ('cardinal Principle'). <p style="text-align: center;">Autumn Spring</p>	<ul style="list-style-type: none"> Count objects, actions and sounds. Count beyond ten. <p style="text-align: center;">Autumn Spring Summer</p>	<ul style="list-style-type: none"> Verbally count beyond 20, recognising the pattern of the counting system. <p style="text-align: center;">Summer</p>
Place Value: Represent	<ul style="list-style-type: none"> Fast recognition of up to 3 objects, without having to count them individually ('subitising'). 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. <p style="text-align: center;">Autumn Spring</p>	<ul style="list-style-type: none"> Subitise. Link the number symbol (numeral) with its cardinal number value. Explore the composition of numbers to 10. <p style="text-align: center;">Autumn Spring</p>	<ul style="list-style-type: none"> Subitise (recognising quantities without counting) up to 5. Have a deep understanding of numbers to 10, including the composition of each number. <p style="text-align: center;">Summer</p>

Place Value: Use PV and Compare	<ul style="list-style-type: none"> Compare quantities using language: 'more than', 'fewer than'. <p style="text-align: center;">Autumn Spring</p>	<ul style="list-style-type: none"> Compare numbers. Understand the 'one more than/one less than' relationship between consecutive numbers. <p style="text-align: center;">Autumn Spring</p>	<ul style="list-style-type: none"> Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity. <p style="text-align: center;">Summer</p>
Place Value: Problems & Rounding	<ul style="list-style-type: none"> Solve real world problems with numbers up to 5. <p style="text-align: center;">Autumn Spring</p>		<ul style="list-style-type: none"> Have a deep understanding of numbers to 10, including the composition of each number. <p style="text-align: center;">Spring Summer</p>
Addition & Subtraction: Recall, Represent, Use		<ul style="list-style-type: none"> Automatically recall number bonds for numbers 0-5 and some to 10. Explore the composition of numbers to 10. <p style="text-align: center;">Spring Summer</p>	<ul style="list-style-type: none"> Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly. Have a deep understanding of numbers to 10, including the composition of each number. <p style="text-align: center;">Spring Summer</p>

Addition & Subtraction: Calculations		<ul style="list-style-type: none"> Explore the composition of numbers to 10. <p style="text-align: center;">Spring Summer</p>	<ul style="list-style-type: none"> Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly. <p style="text-align: center;">Summer</p>
Addition & Subtraction: Solve Problems	<ul style="list-style-type: none"> Solve real world problems with numbers up to 5. <p style="text-align: center;">Autumn Spring</p>	<ul style="list-style-type: none"> Explore the composition of numbers to 10. <p style="text-align: center;">Spring Summer</p>	<ul style="list-style-type: none"> Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly. <p style="text-align: center;">Spring Summer</p>
Multiplication & Division: Recall, Represent, Use		<ul style="list-style-type: none"> Explore the composition of numbers to 10. <p style="text-align: center;">Summer</p>	<ul style="list-style-type: none"> Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly. <p style="text-align: center;">Summer</p>
Multiplication & Division: Calculations			
Multiplication & Division: Solve Problems			
Multiplication & Division: Combined Operations			

Fractions: Recognise and Write			<ul style="list-style-type: none"> Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly. <p style="text-align: center;">Summer</p>
Fractions: Compare			
Fractions: Calculations			
Fractions: Solve Problems			
Decimals: Recognise and Write			
Decimals: Compare			
Decimals: Calculations & Problems			

Fractions, Decimals and Percentages			
Ratio and Proportion			
Algebra			
Measurement: Using Measures	<ul style="list-style-type: none"> • Make comparisons between objects relating to size, length, weight and capacity. • Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...' <p style="text-align: center;">Autumn Spring</p>	<ul style="list-style-type: none"> • Compare length, weight and capacity. <p style="text-align: center;">Autumn Spring</p>	N/A
Measurement: Money			
Measurement: Time	<ul style="list-style-type: none"> • Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...' <p style="text-align: center;">Spring</p>		N/A

Measurement: Perimeter, Area, Volume			
Geometry: 2-D Shapes	<ul style="list-style-type: none"> • Talk about and explore 2D shapes (for example, circles, rectangles, triangles) using informal and mathematical language: ‘sides’, ‘corners’; ‘straight’ and ‘flat’. • 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. <p style="text-align: center;">Autumn</p>	<ul style="list-style-type: none"> • Select, rotate and manipulate shapes in order to develop spatial reasoning skills. • Compose and decompose shapes so that children can recognise a shape can have other shapes within it, just as numbers can. <p style="text-align: center;">Autumn Summer</p>	N/A
Geometry: 3-D Shapes	<ul style="list-style-type: none"> • Talk about and explore 3D shapes (for example, cuboids) using informal and mathematical language. • 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. <p style="text-align: center;">Spring</p>	<ul style="list-style-type: none"> • Select, rotate and manipulate shapes in order to develop spatial reasoning skills. • Compose and decompose shapes so that children can recognise a shape can have other shapes within it, just as numbers can. <p style="text-align: center;">Spring Summer</p>	N/A
Geometry: Angles & lines			

<p style="text-align: center;">Geometry: Position & Direction</p>	<ul style="list-style-type: none"> • 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’. • 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. <p style="text-align: center;">Autumn</p>	<ul style="list-style-type: none"> • Continue, copy and create repeating patterns. <p style="text-align: center;">Autumn Spring</p>	<p style="text-align: center;">N/A</p>
<p style="text-align: center;">Statistics: Present and Interpret</p>			
<p style="text-align: center;">Statistics: Solve Problems</p>			