



Barley and Barkway (VA) C of E First Schools Federation

Church End, Barley, SG8 8JW | 84 High Street, Barkway, SG8 8EF

Tel: 01763 848281 | 01763 848283

Email: admin@barleybarkway.herts.sch.uk

Website: www.barleybarkway.herts.sch.uk



Maths Curriculum Map



Mathematical Vocabulary		
Three and Four-Year-Olds	Communication and Language	
Reception	Communication and Language	
ELG	Communication and Language	Speaking
<ul style="list-style-type: none"> • Use a wider range of vocabulary. • Understand 'why' questions, like: "why do you think the caterpillar is so fat?" • Learn new vocabulary. • Use new vocabulary throughout the day. • Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary. 		
Number and Place Value		
Counting		
Three and Four-Year-Olds	Mathematics	
Reception	Mathematics	
ELG	Mathematics	Numerical Patterns
<ul style="list-style-type: none"> • Recite numbers past 5. • Say one number name for each item in order: 1, 2, 3, 4, 5. • Knowing that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). • Count objects, actions and sounds. • Count beyond ten. • Verbally count beyond 20, recognising the pattern of the counting system. 		

Identifying, Representing and Estimating Numbers

Three and Four-Year-Olds	Mathematics		<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.
Reception	Mathematics		<ul style="list-style-type: none"> • Subitise. • Link the number symbol (numeral) with its cardinal number value.
ELG	Mathematics	Number	<ul style="list-style-type: none"> • Subitise (recognising quantities without counting) up to 5.

Reading and Writing Numbers

Three and Four-Year-Olds	Mathematics		<ul style="list-style-type: none"> • 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.
Reception	Mathematics		<ul style="list-style-type: none"> • Link the number symbol (numeral) with its cardinal number value.

Compare and Order Numbers

Three and Four-Year-Olds	Mathematics		<ul style="list-style-type: none"> • Compare quantities using language: 'more than', 'fewer than'.
Reception	Mathematics		<ul style="list-style-type: none"> • Compare numbers.
ELG	Mathematics	Numerical Patterns	<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.

Understanding Place Value

Reception	Mathematics		<ul style="list-style-type: none"> • Understand the 'one more than/one less than' relationship between consecutive numbers. • Explore the composition of numbers to 10.
ELG	Mathematics	Number	<ul style="list-style-type: none"> • Have a deep understanding of numbers to 10, including the composition of each number.

Solve Problems

Three and Four-Year-Olds

Mathematics

- Solve real world mathematical problems with numbers up to 5.

Addition and Subtraction

Mental Calculations

Reception

Mathematics

- Automatically recall number bonds for numbers 0-10.

ELG

Mathematics

Number

- 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.

Solve Problems

ELG

Mathematics

Numerical Patterns

- Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly.

Reception

Mathematics

- Subitise.
- Link the number symbol (numeral) with its cardinal number value.

Measurement

Describe, Measure, Compare and Solve (All Strands)

Three and Four-Year-Olds

Mathematics

- Make comparisons between objects relating to size, length, weight and capacity.

Reception

Mathematics

- Compare length, weight and capacity.

Telling the Time

Three and Four-Year-Olds

Mathematics

- Begin to describe a sequence of events, real or fictional, using words, such as 'first', 'then...'

Properties of Shapes

Recognise 2D and 3D Shapes and their Properties

Three and Four-Year-Olds	Mathematics	<ul style="list-style-type: none">• 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'.• Select shapes appropriately: flat surfaces for a building, a triangular pattern for a roof, etc.• Combine shapes to make new ones – an arch, a bigger triangle, etc.
Reception	Mathematics	<ul style="list-style-type: none">• Select, rotate and manipulate shapes to develop spatial reasoning skills.

Compare and Classify Shapes

Reception	Mathematics	<ul style="list-style-type: none">• Compose and decompose shapes so that children can recognise a shape can have other shapes within it, just as numbers can.
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Position and Direction

Position, Direction and Movement

Three and Four-Year-Olds	Mathematics	<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'.
Reception	Understanding the World	<ul style="list-style-type: none">• Draw information from a simple map.

Patterns

Three and Four-Year-Olds	Mathematics	<ul style="list-style-type: none">• 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.
Reception	Mathematics	<ul style="list-style-type: none">• Continue, copy and create repeating patterns.

Statistics

Record, Present and Interpret Data

Three and
Four-Year-Olds

Mathematics

- Experiment with their own symbols and marks, as well as numerals.

Year	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
EYFS						
EYFS Mastering Number (NCETM)	Subitising, counting skills, composition within 5, comparing objects, measuring, 1 more or 1 less		Subitising, counting skills, equal and unequal sets, doubles, quantities to numerals, 1 more and 1 less, measuring and understanding about space, shape and measure		Consolidate counting skills, counting strategies, securing knowledge of larger numbers, securing number facts, measuring and securing shape, shape and measure	
	Daily counting opportunities and mathematical learning within child-initiated learning NCETM Mastering Number project					
Key Stage 1						
Y1 White Rose Maths	Number: Place Value (within 10) Number; Addition and Subtraction (within 10)	Number; Addition and Subtraction (within 10) Geometry: Shape	Number: Place Value (within 20) Number: Addition and Subtraction (within 20)	Place value (within 50) Measurement : Length and Height Measurement : Weight and Volume	Number: Multiplication and Division Number: fractions Geometry: Position and Division	Measurement: Money Measurement: time
	Daily opportunities to count in 2s, 5s and 10s. NCETM Mastering Number project fluency sessions					
Y2 NCETM	Number: Place Value Numbers 10 - 100 Calculations within 20	Addition and Subtraction Fluently Add and Subtract within 10	Addition and subtraction Addition and subtraction of 2 digit numbers Multiplication / Division Introduction to multiplication	Multiplication / Division Introduction to multiplication Shape Addition and subtraction of 2 digit numbers (2)	Money Fractions Time Position and Direction	Multiplication and Division (doubling, halving, quotitive and partitive division) Measures - capacity, volume and mass
	NCETM Mastering Number project fluency sessions					

Lower Key Stage 2

<p>Y3 NCETM NCETM (Times tables)</p>	<p>Adding and subtracting across 10 Numbers to 1,000</p>	<p>Numbers to 1,000 Times tables (NCETM) X2, X5, X10</p>	<p>Right angles Manipulating the additive relationship and securing mental calculation</p>	<p>Column addition 2,4,8 times tables Column subtraction</p>	<p>Unit fractions Times tables</p>	<p>Non-unit fractions Parallel and perpendicular sides in polygons Time</p>
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Weekly Fluency Sessions

<p>Y4 WRM NCETM (Times tables)</p>	<p>Number: Place Value Number: Addition and Subtraction</p>	<p>Number: Multiplication and Division Measurement: Length and perimeter</p>	<p>Fractions (4 weeks)</p>	<p>Number : Decimals (3 weeks)</p>	<p>Number: Decimals Measurement: Money Measurement: Time</p>	<p>Statistics Geometry: Position and Direction</p>
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Weekly Fluency Sessions