



EYFS Reception Maths Curriculum

<p>Over Arching Principles</p>	<ul style="list-style-type: none"> • A unique child: Recognizes that every child is a unique individual who is constantly learning and can be resilient, capable, confident, and self-assured. • Positive relationships: Highlights that children learn to be strong and independent through positive relationships with adults and their peers. • Enabling environments: Focuses on creating environments where children can learn and develop successfully, with adults who respond to their individual interests and needs. • Learning and development: Acknowledges that children develop and learn in different ways and at different rates, and that the curriculum must reflect these different ways of learning. 						
<p>Characteristics of Effective Learning</p>	<p>Playing and exploring</p> <ul style="list-style-type: none"> • Finding out and exploring: Children are curious about people, their environment, and events. • Playing with what they know: They use their experiences to create pretend scenarios and take on roles. • Being willing to have a go: They are motivated to start activities, take risks, and are not afraid of making mistakes. <p>Active learning</p> <ul style="list-style-type: none"> • Being involved and concentrating: They stay focused on a task and are engaged in the activity. • Persevering: They keep trying when faced with difficulties and don't give up easily. • Enjoying achievements: They feel a sense of accomplishment when they succeed. <p>Creating and thinking critically</p> <ul style="list-style-type: none"> • Having their own ideas: They develop their own thoughts and concepts. • Making links: They connect ideas and see relationships between different things. • Choosing ways to do things: They develop and use their own strategies to achieve a goal. 						
<p>Core Vocabulary</p>	<p>Number & Counting Count Number Digit Numeral Quantity One-to-one correspondence Subitise More Fewer Less Same Equal Compare Order Sequence Before After</p>	<p>Next Zero First Then Now</p>	<p>Composition & Calculation Part Whole Part-whole model Add Plus Altogether Total Take away Subtract Difference Number bond Double Half Share Group Odd Even</p>	<p>Shape & Spatial Reasoning Shape 2D shape 3D shape Circle Triangle Square Rectangle Hexagon Cube Sphere Cone Cylinder Face Edge Corner Side Pattern Rotate</p>	<p>Position & Direction In On Under Next to Behind In front Above Below Between Left Right Forwards Backwards Turn Direction Move Position</p>	<p>Measures & Comparison Measure Compare Size Length Height Weight Mass Capacity Full Empty More Less Heavier Lighter Taller Shorter Longer Smaller</p>	<p>Time & Daily Routines Morning Afternoon Evening Night Day Week Today Tomorrow Yesterday Soon Later Before After Now Sequence Routine</p>

AUTUMN TERM - Link to NC Maths

ELG
AT THE END
OF THE YEAR

ELG Number

Children at the expected level of development will: -

- **Deep understanding of numbers:** Children should understand what numbers up to 10 means, including how they are made up
- **Subitising:** The ability to instantly recognize small quantities, such as seeing three dots and knowing it's three without counting.
- **Number bonds:** Automatically recalling simple addition and subtraction facts for numbers up to 5, and some to 10, such as double facts.
- **Comparison:** Comparing quantities up to 10 to determine which is greater than, less than, or the same as another.
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ELG Numerical Patterns

Children at the expected level of development will: -

- **Recognizing and exploring patterns:** Children should be able to identify and explore patterns within numbers up to 10.

Specific examples: This includes recognizing even and odd numbers and understanding how quantities can be shared equally.

What we want the children to KNOW

Number

Comparing Amounts

- Use language such as “more,” “fewer,” and “same” to compare groups of objects.
- Begin to subitise small quantities (up to 3) without counting.
- Recognise when two groups have the same number of items.

Numbers 1-5

- Recognise and represent numbers 1 to 5 using fingers, objects, and marks.
- Match numerals to quantities for numbers 1 to 5.
- Understand that numbers can be shown in different ways.
- Begin to understand the concept of “zero” as representing none.

Composition of Numbers

- Explore different ways to make numbers up to 5 (e.g., 2 is 1 and 1).
- Use part-whole language and practical resources to show how numbers can be split and combined.
- Begin to record number stories using marks or drawings.

Shape and
measures

Shape & Spatial Awareness

- Recognise and name common 2D shapes (circle, triangle, square).
- Describe shapes using words like “sides,” “corners,” and “round.”
- Use shapes to make pictures and patterns.

**Positional Language**

- Use and understand positional language (e.g., “in,” “on,” “under,” “next to”).
- Follow and give simple positional instructions.
- Use positional language in play and storytelling.

SPRING TERM - Link to NC Maths

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What we want the children to KNOW

Number

Numbers to 5 and Beyond

- Count reliably to 5 and begin to count beyond using one-to-one correspondence.
- Recognise numerals to 5 and match them to quantities.
- Begin to understand the concept of zero as representing none.

Composition of Numbers

- Explore different ways to make 4 and 5 using part-whole models.
- Use practical resources to combine and partition numbers.
- Begin to record number stories using marks, drawings, or symbols.

Numbers 6-10

- Count, represent, and order numbers to 10 using objects, fingers, and marks.
- Match numerals to quantities and begin to subitise up to 5.
- Use counting strategies to solve simple problems.

Composition of Numbers

- Explore the different ways to make numbers 6 to 10.
- Use part-whole language and models to show how numbers can be split and combined.
- Begin to use number bonds with increasing confidence.

Bonds to 10

- Begin to recall number bonds to 10 using practical resources.
- Use ten frames, fingers, and part-whole models to explore combinations.
- Begin to solve simple addition and subtraction problems using known facts.

<p>Numerical patterns</p>	<p>Comparing Numbers</p> <ul style="list-style-type: none"> • Compare numbers using language such as “more than,” “less than,” and “equal to.” • Order numbers to 10 and begin to identify missing numbers in sequences. <p>Use number lines and counting frames to support comparisons.</p>	
<p>Shape and Measures</p>	<p>Comparing Mass and Capacity</p> <ul style="list-style-type: none"> • Use language such as “heavier,” “lighter,” “full,” “empty,” “more,” and “less” to compare objects. • Explore mass and capacity through hands-on play and investigation. • Begin to estimate and test using balance scales and containers. 	<p>2D & 3D Shape</p> <ul style="list-style-type: none"> • Recognise and name common 2D shapes (e.g., rectangle, hexagon) and 3D shapes (e.g., cube, sphere). • Begin to describe shapes using mathematical vocabulary (e.g., sides, corners, faces). • Use shapes to build models and patterns.

SUMMER TERM - Link to NC Maths

ELG
AT THE END OF THE
YEAR

ELG Number

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- **Deep understanding of numbers:** Children should understand what numbers up to 10 means, including how they are made up
- **Subitising:** The ability to instantly recognize small quantities, such as seeing three dots and knowing it's three without counting.
- **Number bonds:** Automatically recalling simple addition and subtraction facts for numbers up to 5, and some to 10, such as double facts.
- **Comparison:** Comparing quantities up to 10 to determine which is greater than, less than, or the same as another.
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ELG Numerical Patterns

Children at the expected level of development will: -

- **Recognizing and exploring patterns:** Children should be able to identify and explore patterns within numbers up to 10.

Specific examples: This includes recognizing even and odd numbers and understanding how quantities can be shared equally.

What we want the children to KNOW

Number

Building Numbers Beyond 10

- Count reliably beyond 10 using one-to-one correspondence.
- Recognise, represent, and order numbers to 20 using objects, numerals, and ten frames.
- Begin to identify patterns in the number system (e.g., teen numbers start with 1).
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Addition & Subtraction Stories

- Use real-life contexts to explore “first, then, now” stories (e.g., “First there were 3 frogs, then 2 more jumped in…”).
- Represent and solve simple addition and subtraction problems using objects, fingers, and drawings.
- Begin to use mathematical language to describe what is happening (e.g., “add,” “take away,” “how many left?”).

Counting On & Counting Back

- Use counting on and back strategies to solve problems within 10.
- Begin to record number sentences using symbols (+, -, =) with adult support.
- Use number lines and ten frames to support mental strategies.

Numerical patterns	Counting Patterns <ul style="list-style-type: none">• Count forwards and backwards to and from 20.• Identify missing numbers in a sequence up to 20.• Begin to group and count in 2s and 10s using practical resources.	
Shape and Measures	Spatial Reasoning: Match, Rotate, Manipulate <ul style="list-style-type: none">• Match shapes and patterns through rotation and orientation.• Explore how shapes can be combined or rearranged to make new shapes.• Begin to describe position and movement using everyday language.	Spatial Reasoning: Compose & Decompose <ul style="list-style-type: none">• Explore how shapes can be combined to make new shapes or split into parts.• Use tangrams, pattern blocks, or construction materials to compose and decompose shapes.• Begin to describe how shapes fit together or come apart.•