

Mathematical Language <i>* including Shape, Space & Measure</i>	Number Pattern (including pre-counting skills) Comparisons and Relationships <i>* including Shape, Space & Measure</i>	Number: Counting & Calculating Skills	Number Recognition Mark Making / Number Formation
<p>Children are taught to:</p> <ul style="list-style-type: none"> Recite numbers to 10 Begin to recite numbers backwards from 10 Begin to break the counting chain (not always starting from 1 (f/wards) / 10 (b/wards)) Begin to talk about position of numerals/numbers e.g. 5 comes after 4 Use number names to 5 accurately in play Begin to compare quantities using the language of 'more than' and 'less than'; 'fewer' 'same as' 'equal to', within a full sentence, to compare two sets of objects e.g. <i>There are more cats than dogs.</i> Say the number that is one more than a given number up to 5, using a sentence e.g. <i>3 is 1 more than 2</i> Begin to say the number that is one less than a given number within 5 Begin to use the word 'estimate' Begin to use the vocabulary involved in addition, within practical activities and discussion e.g. <i>and, add, more, altogether, makes</i> Begin to use the vocabulary involved in subtraction, within practical activities and discussion e.g. <i>take (away), leave, left, less, makes, altogether</i> Begin to use some language of sharing, doubling, halving and sharing e.g. <i>share, the same number for everyone, double/half, the same number for both</i> Respond to and use language of position and direction Begin to use mathematical language in number formation e.g. <i>5 – straight, straight, curve</i> Begin to describe everyday objects and shapes using mathematical language Begin to use everyday language to talk about / compare quantities and objects and to solve problems related to: size; weight; capacity; position; distance; time; and money <p><i>*Also see linked vocabulary overview.</i></p>	<p>Children are taught to:</p> <ul style="list-style-type: none"> Explore patterns □ Recognise a pattern within the environment / daily routine / story e.g. <i>clothing, toys, wrapping paper</i> □ Create a pattern e.g. <i>ABAB moving onto ABBABB</i> □ Use a mirror to see a symmetrical pattern Describe a pattern □ Talk about what is the same or different about patterns □ Begin to use a variety of positional vocabulary e.g. <i>next, before, after, in between</i> Separate (partition) a group of up to 5 objects in different ways, beginning to recognise that the total is still the same e.g. <i>using variety of resources, numicon, bead strings ...</i> Begin to recognise up to 5 objects in a group not having to count (SUBITISING), with fast recognition of up to 3-4 objects Begin to estimate how many objects (up to 5) they can see, and then check by counting them Begin to explore number bonds to 5 Combine shapes together to make new shapes and takes shapes apart (composition and decomposition) Use shapes to build models/make pictorial representations Recognise shapes within the environment Recognise and begin to name some common 2D and 3D shapes, including □ Rectangles (including squares), circles, triangles, ovals □ Cuboids (including cubes), pyramids and spheres, cones, cylinders Begin to □ order two or three items by: length; height; weight; and capacity Begin to □ order and sequence familiar events □ measure short periods of time e.g. <i>using sand timer</i> □ become familiar with a clock face and hands 	<p>Children are taught to:</p> <ul style="list-style-type: none"> Join in with nursery rhymes familiar and new, using objects / fingers to represent quantity 'Tag' saying one number for each item (ONE TO ONE PRINCIPLE) □ Recognise that the last number said represents the total counted so far (CARDINAL PRINCIPLE) Count out up to 5 objects accurately □ from a larger group within a range of contexts (ONE TO ONE PRINCIPLE) □ in an irregular arrangement □ as actions or objects that cannot be moved Understand and use the words 'first' / 'last' (ORDINAL NUMBERS) Understand that it doesn't matter where the counting starts as long as things are only counted once (ORDER-IRRELEVANCE PRINCIPLE) Begin to count on, starting at any point (BREAKABLE CHAIN) Use an increasing range of mathematical resources (manipulatives) for counting e.g. <i>abacus, numicon, flip flaps, five or ten frames, number track to 5 or 10</i> Find one more / one less from a group of up to 5 objects Use a range of manipulatives to show more/less than a given number e.g. <i>ten frames, bead strings, number track</i> Find the total number of items in two groups (up to 5) by counting all of them together (AGGREGATION STRUCTURE) Begin to find the total number in a group by taking away (subtraction) within 5 (PARTITIONING STRUCTURE) Begin to share, double and halve up to 5, using a range of manipulatives 	<p>Children are taught to:</p> <ul style="list-style-type: none"> Recognise some numbers of personal significance e.g. <i>own age, age of siblings, birth date</i> Recognise numerals 0 to 5 in a range of contexts / fonts Link numeral with amounts to 5. Select the correct numeral to represent 0 to 5 objects Compare the value of numerals 0-5 in context. Order and discuss their position e.g. <i>5 comes after 4, 3 comes before 4</i> Begin to represent numbers using marks/symbols/pictures, developing one to one correspondence Begin to record quantities with support e.g. <i>tallying, dots, numeral cards</i> Begin to write and record numbers/numerals 0 – 5 in a range of contexts (using correct formation) Begin to recognise / understand addition, subtraction and equal symbols

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<p>Children are taught to:</p> <ul style="list-style-type: none"> Begin to recite numbers in order to 20 Recite number backwards from 10 and begin to recite numbers backwards from 15 Break the counting chain (not always starting from 1 (f/wards) / 10 (b/wards)) Talk about position of numerals/numbers up to 5 and begin to talk about position of numerals up to 10 e.g. 6 comes after 5, 4 comes before 5 Use number names up to 10 accurately within play. Compare quantities using the language of 'more than' and 'less than', 'fewer' 'same as' 'equal to', within a full sentence, to compare two sets of objects e.g. 'This jug has less water in that than one.' Say the number that is one more and one less than a given number 10, using a sentence e.g. 6 is 1 less than 7 Use the word 'estimate' Use the vocabulary involved in addition with increased confidence, within practical activities and discussion e.g. and, add, more, altogether, makes, sum, equals Use the vocabulary involved in subtraction with increased confidence, within practical activities and discussion e.g. take (away), leave, left, less, makes, altogether, sum, equals Use some language of sharing, doubling, halving and sharing e.g. share, the same number for everyone, double/halve the same number for both Use spatial language including relative terms depending on view point Use mathematical language in number formation e.g. 5 – straight, straight, curve Describe everyday objects and shapes using mathematical language Begin to compare shapes using mathematical language Use everyday language to talk about / compare quantities and objects and to solve problems related to: size; weight; capacity; position; distance; time; and money <p>*Also see linked vocabulary overview.</p>	<p>Children are taught to:</p> <ul style="list-style-type: none"> Begin to separate (partition) a group of up to 10 objects in different ways, recognising that the total is still the same e.g. using numicon, bead strings, 10 frames Explore the composition of numbers 5-10 Speedily recognise of up to 5 objects in groups, not having to count (SUBITISING) Estimate how many objects (up to 10) they can see and then check by counting them Recall number bonds up to 5, including double facts Begin to apply their knowledge of number bonds to 5 within practical problem solving Show an interest in number problems e.g. The answer is 8. What could the question be? Identify own mathematical problems based on own interests / needs e.g. I want to share the blocks between 3 children Continue to explore patterns Begin to identify when a pattern is symmetrical Create a more complex pattern e.g. ABBABB moving on to ABBABBBC Begin to create a symmetrical pattern Describe a pattern Talk about what is the same or different about patterns Begin to explain the rule or sequence of a pattern Use a variety of positional vocabulary e.g. next, before, after, in between Use shapes confidently to build models/make pictorial representations, manipulating objects to make them fit and begin to predict an visualise how they will look Recognise all and name some common 2D and 3D shapes Rectangles (including squares), circles, triangles, ovals Cuboids (including cubes), pyramids and spheres, cones, cylinders Explore the composition and decomposition of shapes within practical activities Order two or three items by: length; height; weight; and capacity Begin to use some non-standard measures to compare items: lengths; height; weight; and capacity Order and sequence familiar events Become familiar with a clock face and hands Measure short periods of time e.g. using sand timer and stop watch 	<p>Children are taught to:</p> <ul style="list-style-type: none"> Join in with nursery rhymes familiar and new, using objects /fingers to represent quantity Counts out up to 10 objects accurately from a larger group within a range of contexts (ONE TO ONE PRINCIPLE) in an irregular arrangement as actions or objects that cannot be moved as actions or objects that cannot be moved with non-physical things 10 e.g. imaginary objects (ABSTRACTION PRINCIPLE) Understand that it doesn't matter where the counting starts as long as things are only counted once (ORDER - IRRELEVANCE PRINCIPLE) Use and understand the words first / second / last to describe position Count on, starting at any point 0-10 (BREAKABLE CHAIN / AUGUMENTATION STRUCTURE) Count backwards, starting at any point 10 (BI – DIRECTIONAL CHAIN) Use an increasing range of mathematical resources (manipulatives) for counting e.g. bead strings, number track to 10 or 20, number line to 10 or 20 Find one more/less from a group of up to 10 objects, show using a range of resources e.g. number track, number fan Find the total number of items (up to 10) in two groups by counting all of them together, using a range of manipulatives (AGGREGATION STRUCTURE) Find the total number in a group (up to 10) by taking away / subtraction (PARTITIONING STRUCTURE) Share, double and halve up to 10 objects, using a range of manipulatives 	<p>Children are taught to:</p> <ul style="list-style-type: none"> Recognise and talk about numbers of personal significance e.g. own age, age of siblings, birth date Recognise numerals 0 to 10 in a range of contexts / fonts Compares the value of numerals 0-10 in context Order numbers 0 to 10 and discuss their position e.g. 5 comes before 6, 8 comes after 7 (ORDINAL NUMBERS) Link numeral with amounts to 10. Select the correct numeral to represent 0 to 10 objects Represent numbers using marks/symbols/pictures, developing one to one correspondence Record quantities in a range of contexts e.g. tallying, dots, numeral cards Write and record numbers/numerals 0 – 10 in a range of contexts (using correct formation) Recognise/understand addition, subtraction and equal symbols Begin to understand some simple number sentences using some correct symbols/numerals, within practical activities e.g. when modelled by an adult

OUTCOMES: Developing Reception
Development Matters 2020

- Practitioners observing children as they engage in a range of learning experiences.
- Assessment judgements to be made on what children can do independently within a range of contexts

Mathematical Language <i>* including Shape, Space & Measure</i>	Number Pattern (including pre-counting skills) Comparisons and Relationships <i>* including Shape, Space & Measure</i>	Number: Counting & Calculating Skills	Number Recognition Mark Making / Number Formation
<p>Children are taught to:</p> <ul style="list-style-type: none"> Recite numbers in order to 20, forwards and backwards, breaking the counting chain Begin to count beyond 20, recognising the pattern of the counting system (e.g. pausing at each multiple of 10 to remember the structure) Say the number which is 1 more/less than a given number (1 to 20) Begin to count in 2s/5s/10s Begin to recall some double facts e.g. $2 + 2$ Confidently compare quantities using the language of 'more than' and 'less than', 'fewer' 'same as' 'equal to', within a full sentence, to compare two sets of objects e.g. 'This set is equal to that one.' Confidently use vocabulary involved in addition and subtraction, within practical activities and discussion. Answer a variety of addition and subtraction questions using mathematical language, within a practical context e.g. What is the difference between ... and ...? Begin to pose own questions using mathematical language of addition and subtraction Confidently use vocabulary involved in doubling, halving and sharing, within practical activities and discussion e.g. the same, both, equal, double, twice, half, halves, pair, left over Be able to express maths in sentences, using correct vocabulary Compare shapes using mathematical language e.g. This shape has more sides. / This shape is longer. Confidently use everyday language to talk about / compare quantities and objects and to solve problems related to: size; weight; capacity; position; distance; time; and money <p><i>*Also see linked vocabulary overview.</i></p>	<p>Children are taught to:</p> <ul style="list-style-type: none"> Confidently separate (partition) a group of up to 10 objects in different ways, recognising that the total is still the same e.g. using numicon, bead strings, 10 frames Confidently/speedily recognise up to 5 objects in groups, not having to count (SUBITISING) Automatically recall number bonds to 5 and some to 10, including double facts Begin to apply their knowledge of number bonds to 10 within practical problem solving Begin to explore patterns within numbers e.g. even and odd numbers Estimate how many objects (up to 10) they can see, with increasing accuracy, and then check by counting them Use a range of manipulatives to show doubling, halving and sharing up to 10 (i.e. 'distributing equally') Begin to explore and discuss number patterns beyond 20 e.g. using a hundred square Continue to explore patterns □ Identify when a pattern is symmetrical □ Create more complex patterns and symmetrical patterns Describe a pattern: □ Explain the rule or sequence of a pattern □ Begin to use vocabulary such as middle, above, below Continue to explore and talk about shapes □ compose and decompose shapes in practical activities □ selecting /sorting shapes with specific properties □ begin to plan to make a shape model/picture, selecting blocks needed and visualising what they will build Confidently recognise all and name most common 2D and 3D shapes □ Rectangles (including squares), circles, triangles, ovals, semi-circle □ Cuboids (including cubes), pyramids and spheres, cones, cylinders Order three or more items by: length; height; weight; and capacity Use non-standard measures to compare items: lengths; height; weight; and capacity. Order and sequence familiar events, using words such as first, then, after, before, next, sooner, later Measure and compare short periods of time in a variety of ways 	<p>Children are taught to:</p> <ul style="list-style-type: none"> Join in with nursery rhymes familiar and new, using objects /fingers to represent quantity Count up to 10 objects reliably, confidently and accurately □ from a larger group (ONE TO ONE PRINCIPLE) □ within a range of contexts □ in an irregular arrangement of up to 6 objects □ as actions or objects that cannot be moved □ with non-physical things 10 e.g. imaginary objects (ABSTRACTION PRINCIPLE) □ forwards and backwards starting at any point (BI-DIRECTIONAL CHAIN) Use and understand the words first / second / third / last to describe position Begin to use manipulatives to show teen numbers e.g. numicon, ten frames (x 2), number fans Use quantities/objects to add and subtract numbers (up to a total of 10) and count on or back to find the answer, e.g. using a number track Solve problems, including doubling, halving and sharing (up to a total of 10) e.g. Double the number of snack items / halve the number of blocks in the basket 	<p>Children are taught to:</p> <ul style="list-style-type: none"> Recognise more numbers of personal significance e.g. house/flat number, own age, age of siblings, birth date Confidently recognise numerals 0 to 10 in a range of contexts / fonts Confidently link numeral to amounts and orders numbers 0 to 10 and discuss their position e.g. 5 comes before 6, 8 comes after 7 (ORDINAL NUMBERS) Confidently select the correct numeral to represent 1 to 10 objects Recognise/understand addition, subtraction and equal symbols Confidently record quantities in a range of contexts e.g. tallying, numbers ... Write and record numerals/numbers 0 – 10 in a range of contexts (consistently using correct formation) Begin to record some simple number sentences using some correct symbols within practical activities (e.g. using numeral cards / wooden or magnetic numbers)

OUTCOMES: Secure Reception / ELGs

Development Matters 2020

- Practitioners observing children as they engage in a range of learning experiences.
- Assessment judgements to be made on what children can do independently within a range of contexts

Year 1 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	<div>Number</div> <div>Place value (within 10)</div> <div>VIEW</div>					<div>Number</div> <div>Addition and subtraction (within 10)</div> <div>VIEW</div>				<div>Geometry Shape</div> <div>VIEW</div>	<div>Consolidation</div>	
Spring term	<div>Number</div> <div>Place value (within 20)</div> <div>VIEW</div>	<div>Number</div> <div>Addition and subtraction (within 20)</div> <div>VIEW</div>		<div>Number</div> <div>Place value (within 50)</div> <div>VIEW</div>		<div>Measurement</div> <div>Length and height</div> <div>VIEW</div>		<div>Measurement</div> <div>Mass and volume</div> <div>VIEW</div>				
Summer term	<div>Number</div> <div>Multiplication and division</div> <div>VIEW</div>	<div>Number</div> <div>Fractions</div> <div>VIEW</div>	<div>Geometry Position and direction</div> <div>VIEW</div>	<div>Number</div> <div>Place value (within 100)</div> <div>VIEW</div>		<div>Measurement Money</div> <div>VIEW</div>	<div>Measurement</div> <div>Time</div> <div>VIEW</div>		<div>Consolidation</div>			

Year 2 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	<div>Number</div> <div>Place value</div> <div>VIEW</div>				<div>Number</div> <div>Addition and subtraction</div> <div>VIEW</div>				<div>Geometry</div> <div>Shape</div> <div>VIEW</div>			
Spring term	<div>Measurement</div> <div>Money</div> <div>VIEW</div>	<div>Number</div> <div>Multiplication and division</div> <div>VIEW</div>				<div>Measurement</div> <div>Length and height</div> <div>VIEW</div>	<div>Measurement</div> <div>Mass, capacity and temperature</div> <div>VIEW</div>					
Summer term	<div>Number</div> <div>Fractions</div> <div>VIEW</div>	<div>Measurement</div> <div>Time</div> <div>VIEW</div>		<div>Statistics</div> <div>VIEW</div>		<div>Geometry</div> <div>Position and direction</div> <div>VIEW</div>		<div>Consolidation</div>				

Year 3 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	Number Place value <											

Year 4 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	<div>Number</div> <div>Place value</div> <div>VIEW</div>				<div>Number</div> <div>Addition and subtraction</div> <div>VIEW</div>			<div>Measurement</div> <div>Area</div> <div>VIEW</div>	<div>Number</div> <div>Multiplication and division A</div> <div>VIEW</div>		<div>Consolidation</div>	
Spring term	<div>Number</div> <div>Multiplication and division B</div> <div>VIEW</div>		<div>Measurement</div> <div>Length and perimeter</div> <div>VIEW</div>		<div>Number</div> <div>Fractions</div> <div>VIEW</div>			<div>Number</div> <div>Decimals A</div> <div>VIEW</div>				
Summer term	<div>Number</div> <div>Decimals B</div> <div>VIEW</div>	<div>Measurement</div> <div>Money</div> <div>VIEW</div>	<div>Measurement</div> <div>Time</div> <div>VIEW</div>	<div>Consolidation</div>		<div>Geometry</div> <div>Shape</div> <div>VIEW</div>		<div>Statistics</div> <div>VIEW</div>	<div>Geometry</div> <div>Position and direction</div> <div>VIEW</div>			

Year 5 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	<div>Number</div> <div>Place value</div> <div>VIEW</div>		<div>Number</div> <div>Addition and subtraction</div> <div>VIEW</div>		<div>Number</div> <div>Multiplication and division A</div> <div>VIEW</div>		<div>Number</div> <div>Fractions A</div> <div>VIEW</div>					
Spring term	<div>Number</div> <div>Multiplication and division B</div> <div>VIEW</div>		<div>Number</div> <div>Fractions B</div> <div>VIEW</div>		<div>Number</div> <div>Decimals and percentages</div> <div>VIEW</div>		<div>Measurement</div> <div>Perimeter and area</div> <div>VIEW</div>		<div>Statistics</div> <div>VIEW</div>			
Summer term	<div>Geometry</div> <div>Shape</div> <div>VIEW</div>		<div>Geometry</div> <div>Position and direction</div> <div>VIEW</div>		<div>Number</div> <div>Decimals</div> <div>VIEW</div>		<div>Number</div> <div>Negative numbers</div> <div>VIEW</div>	<div>Measurement</div> <div>Converting units</div> <div>VIEW</div>		<div>Measurement</div> <div>Volume</div> <div>VIEW</div>		

Year 6 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	<div>Number</div> <div>Place value</div> <div>VIEW</div>		<div>Number</div> <div>Addition, subtraction, multiplication and division</div> <div>VIEW</div>				<div>Number</div> <div>Fractions A</div> <div>VIEW</div>		<div>Number</div> <div>Fractions B</div> <div>VIEW</div>		<div>Measurement</div> <div>Converting units</div> <div>VIEW</div>	
Spring term	<div>Number</div> <div>Ratio</div> <div>VIEW</div>		<div>Number</div> <div>Algebra</div> <div>VIEW</div>		<div>Number</div> <div>Decimals</div> <div>VIEW</div>		<div>Number</div> <div>Fractions decimals and percentages</div> <div>VIEW</div>		<div>Measurement</div> <div>Area, perimeter and volume</div> <div>VIEW</div>		<div>Statistics</div> <div>VIEW</div>	
Summer term	<div>Geometry</div> <div>Shape</div> <div>VIEW</div>		<div>Geometry</div> <div>Position and direction</div> <div>VIEW</div>		<div>Themed projects, consolidation and problem solving</div>							