



Maths Long-term Overview 12R

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	<p><u>Comparison 1</u> -more than, fewer than, same</p> <p><u>Shape, Space and Measure 1</u> -Explore and build with shapes and objects</p> <p><u>Pattern 1</u> -explore repeats</p>	<p><u>Counting 1</u> -hear and say number names</p> <p><u>Counting 2</u> -begin to order number names</p> <p><u>Subitising 1</u> -I see 1, 2, 3</p>	<p><u>Patterns 2</u> -join in with repeats</p> <p><u>Shape, Space and Measure 2</u> -explore position and space</p> <p><u>Subitising 2</u> -show me 1,2,3</p>	<p><u>Counting 3</u> -move and label 1,2,3</p> <p><u>Shape, Space and Measure 3</u> -explore position and routes</p> <p><u>Patterns 3</u> -explore own first pattern</p>	<p><u>Counting 4</u> -take and give 1,2,3</p> <p><u>Shape, Space and Measure 4</u> -match, talk, push and pull</p> <p><u>Subitising 3</u> -talk about dot</p>	<p><u>Comparison 2</u> -compare and sort collections</p> <p><u>Pattern 4</u> -lead on own repeats</p> <p><u>Shape, Space and Measure 5</u> -start to puzzle</p>
Reception	<p><u>Number</u> -match, sort and compare -it's me 1,2,3</p> <p><u>Measurement</u> -Talk about measure and patterns</p>	<p><u>Geometry</u> -circles and triangles -shapes with 4 sides</p> <p><u>Number</u> -understand 1,2,3,4,5</p>	<p><u>Number</u> -alive in 5 -growing 6,7,8</p> <p><u>Measurement</u> -mass and capacity</p>	<p><u>Measurement</u> -length, height and time</p> <p><u>Number</u> building 9+10</p> <p><u>Geometry</u> -exploring 3-D shapes</p>	<p><u>Number</u> -to 20 and beyond -how many now? -manipulate, compose and decompose</p>	<p><u>Number</u> -sharing and grouping -visualise, build and map -make connections</p>
Year 1	<p><u>Number</u> -Place Value (within 10)</p>	<p><u>Number</u> -Place Value</p> <p><u>Geometry</u> - Shape</p>	<p><u>Number</u> -Addition and Subtraction (within 20)</p>	<p><u>Measurement</u> -Length and height -Weight and volume</p>	<p><u>Number</u> -Multiplication and division -Fractions</p>	<p><u>Number</u> -Place Value (within 100)</p> <p><u>Measurement</u></p>



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	-Addition and subtraction (within 10)		-Place Value (within 50)		Geometry - Position and direction	-Money -Time
Year 2	Number -place value -addition and subtraction	Number -addition and subtraction Geometry -shape	Measurement -money Number -multiplication and division	Measurement -length and height -mass, capacity and temperature	Number -fractions Measurement -time	Data -statistics Geometry -position and direction

	Autumn 1	Autumn 2
Nursery	<p>Comparison 1</p> <ul style="list-style-type: none"> ● collect objects to compare amounts ● make simple comparisons of amounts ● look for collections of smaller and larger amounts ● compare and talk about large and small amounts ● make large and small collections ● make collections of the same <p>Shape, Space and Measure 1</p> <ul style="list-style-type: none"> ● explore and play with shapes ● show interest in the simple difference between shapes ● put blocks and shapes into position ● select shapes for a reason 	<p>Counting 1</p> <ul style="list-style-type: none"> ● hear some number names ● join in saying some number names ● model saying number names in order ● practice saying number names in order ● join in stable order counting forwards ● join in stable order counting backwards <p>Counting 2</p> <ul style="list-style-type: none"> ● model saying 1, 2 and 3 in play ● copy the sequence of 1, 2 and 3 ● copy fingers to represent 1, 2 and 3 ● begin to count actions ● say number names in order



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	<ul style="list-style-type: none"> ● begin to explore and describe natural shapes and objects ● find and collect objects for a purpose <p><u>Pattern 1</u></p> <ul style="list-style-type: none"> ● listen to repeats in songs and stories ● start to join in songs with repeats ● start to join in with repeats from stories ● clap along to songs ● make line patterns with own sequences ● choose blocks to build towers of roads 	<ul style="list-style-type: none"> ● begin to recognise that anything can be counted <p><u>Subitising 1</u></p> <ul style="list-style-type: none"> ● notice images in books ● respond to “I see 1, 2, 3” ● recognise “I see 1, 2, 3” ● Copy “I see 1, 2, 3” ● Point to 1, 2, 3 ● Recognise 1, 2, 3 in well known tales
Reception	<p><u>Number</u></p> <ul style="list-style-type: none"> ● match objects ● match pictures and objects ● identify a set ● sort objects to a type ● explore sorting techniques ● create sorting rules ● compare amounts <p><u>Measurement</u></p> <ul style="list-style-type: none"> ● compare size ● compare mass ● compare capacity ● explore simple patterns ● copy and continue simple patterns ● create simple patterns 	<p><u>Geometry</u></p> <ul style="list-style-type: none"> ● identify and name circles and triangles ● compare circles and triangles ● shapes in the environment ● describe position <p><u>Number</u></p> <ul style="list-style-type: none"> ● find 1, 2 and 3 ● subitise 1, 2 and 3 ● represent 1, 2 and 3 ● 1 more ● 1 less ● composition of 1, 2 and 3 ● find 4 and 5 ● subitise 4 and 5 ● represent 4 and 5 ● 1 more ● 1 less ● composition of 4 and 5 ● composition of 1 - 5



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Year 1	<p><u>Number</u></p> <ul style="list-style-type: none">● Sort objects● count objects● count objects from larger groups● represent objects● recognise numbers as words● count from any number● 1 more● count back with-in 10● 1 less● compare groups by matching● fewer, more, same● less than, greater than, equal to● compare numbers● order objects and numbers● the number line	<p><u>Number</u></p> <ul style="list-style-type: none">● Introduce parts and wholes● part-whole model● write number sentences● fact families - addition facts● number bonds within 10● systematic number bonds within 10● number bonds to 10● addition - add together● addition - add more● addition- problem● find a part● subtraction - find a part● fact families - the eight facts● subtraction - take away/cross out (How many left?)● Subtraction - take away (How many left?)● subtraction on the number line● add or subtract 1 or 2 <p><u>Geometry</u></p> <ul style="list-style-type: none">● recognise and name 3-D shapes● sort 3-D shapes● recognise and name 2-D shapes● sort 2-D shapes● patterns with 2-D and 3-D shapes
Year 2	<p><u>Number</u></p> <ul style="list-style-type: none">● numbers to 20● count objects to make 100 by making 10s● recognise tens and ones● use a place value chart	<p><u>Number</u></p> <ul style="list-style-type: none">● bonds to 10● fact families- addition and subtraction within 20● related facts● bonds to 100 (tens)



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	<ul style="list-style-type: none"> ● partition numbers to 100 ● write numbers to 100 in words ● flexibly partition numbers to 100 ● write numbers to 100 in expanded form ● 10s on a number line to 100 ● 10s and 1s on a number line to 100 ● estimate numbers on a number line ● compare objects ● compare numbers ● order objects and numbers ● count in 2s, 5s and 10s ● count in 3s 	<ul style="list-style-type: none"> ● add and subtract 1s ● add by making 10 ● add 3 1-digit numbers ● add to the next 10 ● add across a 10 ● subtract across a 10 ● subtract from a 10 ● subtract 1-digit number from a 2-digit number across 10 ● 10 more, 10 less ● add and subtract 10s <p><u>Geometry</u></p> <ul style="list-style-type: none"> ● recognise 2D and 3D shapes ● count sides on 2D shapes ● count vertices on 2D shapes ● draw 2D shapes ● lines of symmetry on shapes ● use lines of symmetry to complete shapes ● sort 2D shapes ● count faces on 3D shapes ● count edges on 3D shapes ● count vertices on 3D shapes ● sort 3D shapes ● make patterns with 2D and 3D shapes
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	Spring 1	Spring 2
Nursery	<p><u>Patterns 2</u></p> <ul style="list-style-type: none"> ● join in with repeated actions in songs 	<p><u>Counting 3</u></p> <ul style="list-style-type: none"> ● make actions when saying counting words



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	<ul style="list-style-type: none"> ● join in with repeats in songs and stories ● sing some refrains independently ● have a sense of daily routines ● say what happens next ● make arrangements in art <p><u>Shape, Space and Measure 2</u></p> <ul style="list-style-type: none"> ● respond to simple language of position ● arrange blocks in a chosen position ● select shapes for a space ● recognise when two objects are the same shape ● explore and describe shapes and objects ● sort shapes and objects into simple categories <p><u>Subitising 2</u></p> <ul style="list-style-type: none"> ● copy fingers to show 1 ● copy fingers to show 2 ● copy fingers to show 3 ● show 1 finger when seeing 1 item in stories ● show 2 and 3 fingers when seeing 2 and 3 in stories ● show 1, 2 and 3 on fingers when asked 	<ul style="list-style-type: none"> ● move fingers when saying counting words ● count up to 3 objects from rhymes ● notice number symbols as labels ● label amounts as 1 and not 1 ● label amounts and 1, 2 or 3 <p><u>Shape, Space and Measure 3</u></p> <ul style="list-style-type: none"> ● explore shape resources ● explore more complex inset jigsaws ● talk about simple positions ● move into simple positions ● move through positions ● follow simple small-world routes <p><u>Patterns 3</u></p> <ul style="list-style-type: none"> ● explain simple pattern arrangements ● make roads and bridges with intent ● choose blocks to copy simple creations ● make simple line patterns with objects ● make simple pattern arrangements ● show an interest in patterns and shapes
Reception	<p><u>Number</u></p> <ul style="list-style-type: none"> ● introduce 0 ● find 0 - 5 ● subitise 0 - 5 ● represent 0 - 5 ● 1 more ● 1 less ● composition ● conceptual subitising to 5 	<p><u>Measurement</u></p> <ul style="list-style-type: none"> ● explore length ● compare length ● explore height ● compare height ● talk about time ● order and sequence time <p><u>Number</u></p> <ul style="list-style-type: none"> ● fine 6, 7 and 8



	<p><u>Measurement</u></p> <ul style="list-style-type: none"> ● compare mass ● find a balance ● explore capacity ● compare capacity 	<ul style="list-style-type: none"> ● represent 6, 7 and 8 ● 1 more ● 1 less ● composition of 6, 7 and 8 ● make pairs - odd and even ● double 8 (to find a double) ● double 8 (to make a double) ● combine 2 groups ● conceptual subitising <p><u>Geometry</u></p> <ul style="list-style-type: none"> ● recognise and name 2D shapes ● find 2D shapes within 3D shapes ● use 3D shapes for tasks ● 3D shapes in the environment ● identify more complex patterns ● copy and continue patterns ● patterns in the environment
<p>Year 1</p>	<p><u>Number</u></p> <ul style="list-style-type: none"> ● count within 20 ● understand 10 ● understand 11, 12, 13 ● understand 14, 15, 16 ● understand 17, 18, 19 ● understand 20 ● 1 more and 1 less ● the number line to 20 ● use a number line to 20 ● compare number to 20 ● order numbers to 20 	<p><u>Measurement</u></p> <ul style="list-style-type: none"> ● compare lengths and heights ● measure length using objects ● measure length in centimetres ● heavier and lighter ● measure mass ● compare mass ● full and empty ● compare volume ● measure capacity ● compare capacity



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	<ul style="list-style-type: none">● add by counting on within 20● add oneness using number bonds● find and make number bonds to 20● doubles● near doubles● subject ones using number bonds● subtraction - counting back● subtraction - finding the difference● related facts● missing number problems● count from 20 to 50● 20, 30, 40, 50● count by making groups of tens● groups of tens and ones● partition into tens and ones● the number line to 50● estimate on a number line to 50● 1 more, 1 less	
Year 2	<p><u>Measurement</u></p> <ul style="list-style-type: none">● count money - pence● count money - pounds (notes and coins)● count money - pounds and pence● choose notes and coins● make the same amount● compare amounts of money● calculate with money● make a pound● find change● two-step problems	<p><u>Measurement</u></p> <ul style="list-style-type: none">● measure in centimetres● measure in metres● compare lengths and heights● order lengths and heights● four operations with length and heights● compare mass● measure in grams● measure in kilograms● four operations with mass● compare volume and capacity



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	<p><u>Number</u></p> <ul style="list-style-type: none"> ● recognise equal groups ● make equal groups ● add equal groups ● introduce the multiplication symbol ● multiplication sentences ● use arrays ● making equal groups - grouping ● make equal groups- sharing ● the two-times table ● divide by two ● doubling and halving ● odd and even numbers ● the 10 times table ● divide by 10 ● the 5 times table ● divide by 5 ● the 5 and 10 times table 	<ul style="list-style-type: none"> ● measure in millimetres ● measure in litres ● four operations with volume and capacity ● temperature
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	Summer 1	Summer 2
Nursery	<p><u>Counting 4</u></p> <ul style="list-style-type: none"> ● make actions when saying counting words ● move fingers when saying counting words ● count up to 5 objects from rhymes ● notice number symbols as labels ● label amounts as 2 and not 2 ● label amounts and 1, 2, 3, 4, 5 	<p><u>Comparison 2</u></p> <ul style="list-style-type: none"> ● collect objects to compare amounts up to 10 ● make comparisons of amounts up to 10 ● look for collections of smaller and larger amounts ● compare and talk about large and small amounts ● make large and small collections ● make collections of the same



	<p><u>Shape, Space and Measure 4</u></p> <ul style="list-style-type: none"> ● explore shape resources ● explore more complex inset jigsaws ● talk about simple positions ● move into simple positions ● move through positions ● follow simple small-world routes <p><u>Subitising 3</u></p> <ul style="list-style-type: none"> ● copy fingers to show 1,2,3 ● copy fingers to show 4 ● copy fingers to show 5 ● show 1 finger when seeing 1 item in stories ● show 2,3,4,5 fingers when seeing 2, 3, 4, 5 in stories ● show 1, 2, 3, 4, 5 on fingers when asked 	<p><u>Pattern 4</u></p> <ul style="list-style-type: none"> ● explain simple pattern arrangements ● make roads and bridges with intent ● choose blocks to copy simple creations ● make simple line patterns with objects ● make simple pattern arrangements ● show an interest in patterns and shapes <p><u>Shape, Space and Measure 5</u></p> <ul style="list-style-type: none"> ● explore a range shape resources ● explore complex inset jigsaws ● talk about positions ● move into positions ● move through positions ● follow simple small-world routes
<p>Reception</p>	<p><u>Number</u></p> <ul style="list-style-type: none"> ● build numbers beyond 10 (10 - 13) ● continue patterns beyond 10 (10 - 13) ● build numbers beyond 10 (14 - 20) ● continue patterns beyond 10 (14 - 20) ● verbal counting beyond 20 ● verbal counting patterns ● add more ● how many did I add? ● take away ● how many did I take away? <p><u>Geometry</u></p> <ul style="list-style-type: none"> ● select shapes for a purpose 	<p><u>Number</u></p> <ul style="list-style-type: none"> ● explore sharing ● sharing ● explore grouping ● grouping ● even and odd sharing ● play with a build doubles <p><u>Geometry</u></p> <ul style="list-style-type: none"> ● identify units of repeating patterns ● create own pattern rules ● explore own pattern rules ● replicate and build scenes and construction ● visualise from different positions



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	<ul style="list-style-type: none"> ● rotate shapes ● manipulate shapes ● explain shape arrangements ● compose shapes ● decompose shapes ● copy 2D shape pictures ● find 2D shapes in 3D shapes 	<ul style="list-style-type: none"> ● describe positions ● give instructions to build ● explore mapping ● represent maps with models ● create own maps of familiar places ● create own maps and plans from story situations
Year 1	<p><u>Number</u></p> <ul style="list-style-type: none"> ● count in 2s ● count in 10s ● count in 5s ● recognise equal groups ● add equal groups ● make arrays ● make doubles ● make equal groups - grouping ● make equal groups - sharing ● recognise a half of an object or a shape ● find a half of an object or shape ● recognise a half of a quantity ● find a half of a quantity ● recognise a quarter of an object or a shape ● recognise a quarter of a quantity ● find a quarter of a quantity <p><u>Geometry</u></p> <ul style="list-style-type: none"> ● describe turns ● describe position - left and right ● describe position - forwards and backwards 	<p><u>Number</u></p> <ul style="list-style-type: none"> ● count from 50 to 100 ● tens to 100 ● partition into tens and ones ● the number line to 100 ● 1 more, 1 less ● compare numbers with the same number of tens ● compare any two numbers ● unitising ● recognise notes ● recognise coins ● count in coins <p><u>Measurement</u></p> <ul style="list-style-type: none"> ● before and after ● days of the week ● months of the year ● hours, minutes and seconds ● tell the time to the hour ● tell the time to the half hour



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	<ul style="list-style-type: none">● describe position - above and below● ordinal numbers	
Year 2	<p><u>Number</u></p> <ul style="list-style-type: none">● introduction to parts and whole● equal and unequal parts● recognise a half● find a half● recognise a quarter● find a quarter● recognise a third● find a third● find a whole● unit fractions● non-unit fractions● recognise the equivalence of halves and two-quarters● recognise three-quarters● count in fractions up to a whole <p><u>Measurement</u></p> <ul style="list-style-type: none">● O'clock and half past● quarter past and quarter to● tell time past the hour● tell time to the hour● tell time to 5 minutes● minutes in an hour● hours in a day	<p><u>Data</u></p> <ul style="list-style-type: none">● make tally charts● tables● block diagrams● draw pictograms (1-1)● interpret pictograms (1-1)● draw pictograms (2, 5 and 10)● interpret pictograms (2, 5 and 10)● <p><u>Geometry</u></p> <ul style="list-style-type: none">● language of position● describe movement● describe turns● describe movements and turns● shape patterns with turns