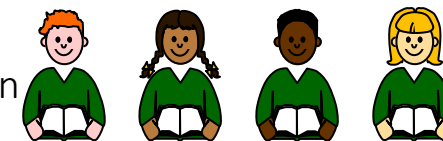
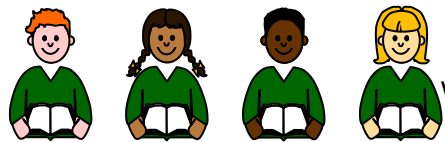
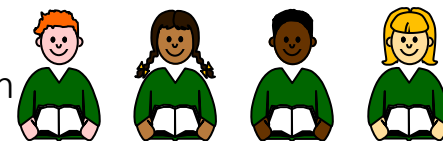
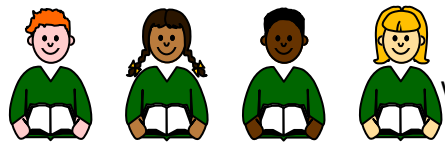


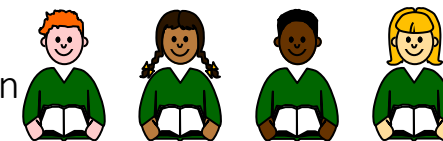
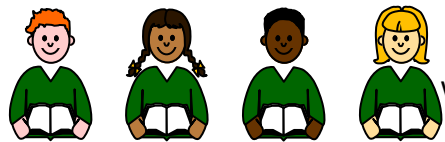
Area of Maths	Nursery (DM)	Reception (DM)	Year 1 (NC)	Year 2 (NC)
Number – Number and Place Value	<ul style="list-style-type: none"> Recite numbers past 5. Say one number name for each item in order: 1, 2, 3, 4, 5. Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). 	<ul style="list-style-type: none"> Count objects, actions and sounds. Count beyond ten. ELG - Verbally count beyond 20, recognising the pattern of the counting system. 	<ul style="list-style-type: none"> Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number. Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens. Given a number, identify one more and one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. Read and write numbers from 1 to 20 in numerals and words. 	<ul style="list-style-type: none"> Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward. Recognise the place value of each digit in a two-digit number (tens, ones). Identify, represent and estimate numbers using different representations, including the number line. Compare and order numbers from 0 up to 100; use <, > and = signs. Read and write numbers to at least 100 in numerals and in words Use place value and number facts to solve problems.
	Identifying, Representing and Estimating Numbers	Identifying, Representing and Estimating Numbers		
	<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. 	<ul style="list-style-type: none"> Subitise. Link the number symbol (numeral) with its cardinal number value. ELG – Subitise (recognise quantities without counting) up to 5. 		
	Reading and Writing Numbers	Reading and Writing Numbers		
	<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. 	<ul style="list-style-type: none"> Link the number symbol (numeral) with its cardinal number value. 		
	Compare and Order Numbers	Compare and Order Numbers		
<ul style="list-style-type: none"> Compare quantities using language: 'more than', 'fewer than'. 	<ul style="list-style-type: none"> Compare numbers ELG - Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, 			



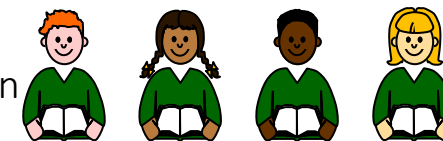
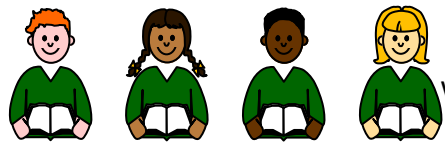
		less than or the same as the other quantity.		
	Understanding Place Value	Understanding Place Value		
	<ul style="list-style-type: none"> Explore the composition of numbers to 5 (not from DM). Solve real world mathematical problems with numbers up to 5. 	<ul style="list-style-type: none"> Understand the 'one more than/one less than' relationship between consecutive numbers. Explore the composition of numbers to 10. ELG - Have a deep understanding of numbers to 10, including the composition of each number. 		
Number – Addition and Subtraction	<ul style="list-style-type: none"> Beginning to explore some number bond work up to 5 (not from DM). 	<ul style="list-style-type: none"> Automatically recall number bonds for numbers 0–5 and some to 10. ELG – Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10. 	<ul style="list-style-type: none"> Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs. Represent and use number bonds and related subtraction facts within 20. Add and subtract one-digit and two-digit numbers to 20, including zero. Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = __ - 9$ 	<ul style="list-style-type: none"> Solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods. Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> a two-digit number and ones. a two-digit number and tens.



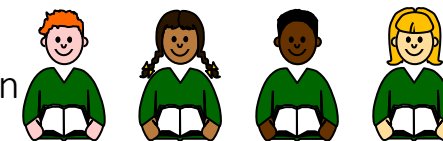
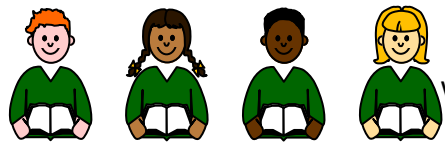
				<ul style="list-style-type: none">• two two-digit numbers• adding three one-digit numbers.• Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.• Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.
Number – Multiplication and Division		<ul style="list-style-type: none">• ELG – Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.	<ul style="list-style-type: none">• Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.	<ul style="list-style-type: none">• Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.• Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals ($=$) signs.• Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.• Solve problems involving multiplication and division,



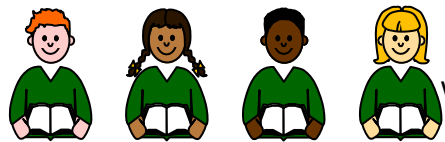
				using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Number – Fractions			<ul style="list-style-type: none"> Recognise, find and name a half as one of two equal parts of an object, shape or quantity. Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity. 	<ul style="list-style-type: none"> Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity. Write simple fractions for example, $\frac{1}{2}$ of $6 = 3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.
Algebra *statements not from NC but areas of Number that link to Algebra.			<ul style="list-style-type: none"> Understand the power of the = sign. Recognise and use number sentences written in different ways. Solve missing number calculations. What's the same? What's the difference? questions. 	<ul style="list-style-type: none"> Understand < and >. Understand the power of the = sign. Recognise and use number sentences written in different ways. Solve missing number calculations. What's the same? What's the difference? questions.
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...' 	<ul style="list-style-type: none"> Compare length, weight and capacity. 	<ul style="list-style-type: none"> compare, describe and solve practical problems for: <ul style="list-style-type: none"> lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] mass/weight [for example, heavy/light, heavier than, lighter than] capacity and volume [for example, full/empty, more 	<ul style="list-style-type: none"> Find different combinations of coins that equal the same amounts of money. Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. Compare and sequence intervals of time. Tell and write the time to



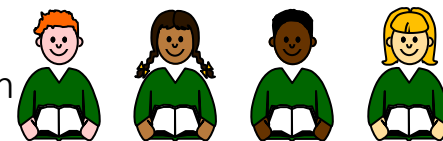
			<p>than, less than, half, half full, quarter]</p> <ul style="list-style-type: none"> • time [for example, quicker, slower, earlier, later] measure and begin to record the following: <ul style="list-style-type: none"> • lengths and heights • mass/weight • capacity and volume • time (hours, minutes, seconds. • Recognise and know the value of different denominations of coins and notes. • Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]. • Recognise and use language relating to dates, including days of the week, weeks, months and years. • Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. 	<p>five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.</p> <ul style="list-style-type: none"> • Know the number of minutes in an hour and the number of hours in a day.
<p>Geometry – properties of shapes</p>	<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 	<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 recognise a shape can have other shapes within it, just as numbers can. 	<ul style="list-style-type: none"> • Recognise and name common 2-D and 3-D shapes, including: <ul style="list-style-type: none"> • 2-D shapes [for example, rectangles (including squares), circles and triangles] 	<ul style="list-style-type: none"> • Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line. • Identify and describe the properties of 3-D shapes,



	<p>surfaces for building, a triangular prism for a roof, etc.</p> <ul style="list-style-type: none"> Combine shapes to make new ones – an arch, a bigger triangle, etc. 		<ul style="list-style-type: none"> 3-D shapes [for example, cuboids (including cubes), pyramids and spheres] 	<p>including the number of edges, vertices and faces.</p> <ul style="list-style-type: none"> Identify 2-D shapes on the surface of 3-D shapes [for example, a circle on a cylinder and a triangle on a pyramid]. Compare and sort common 2-D and 3-D shapes and everyday objects.
<p>Geometry – position and direction</p>	<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. 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’. 	<ul style="list-style-type: none"> Continue, copy and create repeating patterns. Draw information from a simple map. (UTW statement). 	<ul style="list-style-type: none"> Describe position, direction and movement, including whole, half, quarter and three -quarter turns. 	<ul style="list-style-type: none"> Order and arrange combinations of mathematical objects in patterns and sequences. Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three -quarter turns (clockwise and anti -clockwise).
<p>Statistics</p>			<ul style="list-style-type: none"> Although not part of the Y1 NC, pre-teaching of statistics can happen incidentally through voting charts such as weather charts, votes on favourite foods etc. 	<ul style="list-style-type: none"> Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. Ask and answer simple questions by counting the number of objects in each category and sorting the



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				<p>categories by quantity.</p> <ul style="list-style-type: none">• Ask and answer questions about totalling and comparing categorical data.
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