

	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
<b>Place value</b>	<b>Counting</b>						
	<ul style="list-style-type: none"> <li>○ Counting in a stable order up to 5 and 10.</li> <li>○ Recognising 1 more and 1 less than a number up to 10, including odd and even number</li> </ul>	<ul style="list-style-type: none"> <li>○ Counting to and across 100 from any given starting point.</li> </ul>					
	<ul style="list-style-type: none"> <li>○ Have a deep understanding of number up to 10.</li> </ul>	<ul style="list-style-type: none"> <li>○ Counting in multiples of 2s, 5s and 10s.</li> </ul>	<ul style="list-style-type: none"> <li>○ Counting in multiples of 2, 3, 5 and 10 (forwards and backwards).</li> </ul>	<ul style="list-style-type: none"> <li>○ Counting in multiples of 4, 8, 50, 100.</li> </ul>	<ul style="list-style-type: none"> <li>○ Count in multiples of 6, 7, 9, 25 and 1000.</li> </ul>	<ul style="list-style-type: none"> <li>○ Counting forwards and backwards in steps of powers of 10 up to 1,000,000.</li> </ul>	
	<b>Reading, writing and representing numbers</b>						
	<ul style="list-style-type: none"> <li>○ Read and write numbers up to 5 in words</li> <li>○ Verbally count beyond 20 and recognise the pattern of the counting system.</li> </ul>	<ul style="list-style-type: none"> <li>○ To read and write numbers up to 100 in digits.</li> <li>○ To read and write numbers to 20 in words.</li> </ul>	<ul style="list-style-type: none"> <li>○ Read and write numbers up to 100 in digits and words.</li> </ul>	<ul style="list-style-type: none"> <li>○ Read and write numbers up to 1000 in numbers and words.</li> </ul>	<ul style="list-style-type: none"> <li>○ Read, write and compare numbers up to 1 decimal place</li> </ul>	<ul style="list-style-type: none"> <li>○ Read and write numbers up to 1,000,000.</li> <li>○ Read, write and compare numbers with up to 3 decimal places.</li> </ul>	<ul style="list-style-type: none"> <li>○ Read and write numbers up to 10,000,000.</li> <li>○ Read, write and compare numbers with up to 3 decimal places.</li> </ul>
	<ul style="list-style-type: none"> <li>○ Represent numbers using objects and pictures</li> </ul>	<ul style="list-style-type: none"> <li>○ Represent numbers 20 or more using objects and pictures - including number lines.</li> </ul>	<ul style="list-style-type: none"> <li>○ Represent and estimate numbers using different representations up to 100 including a number line.</li> </ul>	<ul style="list-style-type: none"> <li>○ Represent and estimate using representations up to 1000.</li> </ul>	<ul style="list-style-type: none"> <li>○ Represent and estimate using representations beyond 1000.</li> <li>○ Read roman numerals to 100 and know the history of our number system.</li> </ul>	<ul style="list-style-type: none"> <li>○ Read roman numerals to 1000 and recognise years.</li> </ul>	
	<b>Ordering (including more than/less than)</b>						
	<ul style="list-style-type: none"> <li>○ Show more than/less than using objects, pictures and number line.</li> <li>○ Using language of equal to, more than, less than up to 10</li> </ul>	<ul style="list-style-type: none"> <li>○ One more, one less</li> <li>○ Using language of equal to, more than, less than</li> </ul>	<ul style="list-style-type: none"> <li>○ Comparing and ordering numbers to 100.</li> <li>○ Find 10 more and less</li> <li>○ Use <math>&lt;</math> <math>&gt;</math> <math>=</math>.</li> </ul>	<ul style="list-style-type: none"> <li>○ Compare and order numbers up to 1000.</li> <li>○ Find 10 and 100 more and less.</li> </ul>	<ul style="list-style-type: none"> <li>○ Compare and order numbers beyond 1000.</li> <li>○ Find 1000 more or less.</li> </ul>	<ul style="list-style-type: none"> <li>○ Compare and order numbers up to 1,000,000.</li> </ul>	<ul style="list-style-type: none"> <li>○ Compare and order numbers up to 10,000,000.</li> </ul>
	<b>Place value</b>						

Addition and subtraction	<ul style="list-style-type: none"> <li>Recognise quantities without counting up to 5.</li> </ul>	<ul style="list-style-type: none"> <li>Explore the tens and ones in a 2 digit number</li> </ul>	<ul style="list-style-type: none"> <li>Recognise place value of each digit in a two-digit number.</li> <li>Partition any two-digit number into different combinations of tens and ones</li> </ul>	<ul style="list-style-type: none"> <li>Recognise place value of each digit in a 3 digit number.</li> </ul>	<ul style="list-style-type: none"> <li>Recognise place value of each digit in a 4 digit number.</li> </ul>	<ul style="list-style-type: none"> <li>Recognise the place value of each digit up to 1,000,000.</li> <li>Recognise the place value of numbers, and give answers with up to 2 decimal places</li> </ul>	<ul style="list-style-type: none"> <li>Recognise the place value of each digit in numbers up to 10,000,000.</li> <li>Recognise the place value of numbers, and give answers with up to 3 decimal places</li> </ul>	
	<b>Problem solving</b>							
			<ul style="list-style-type: none"> <li>Use place value and number facts to solve problems.</li> </ul>	<ul style="list-style-type: none"> <li>Solve number problems and practical problems.</li> </ul>	<ul style="list-style-type: none"> <li>Solve number problems and practical problems with increasingly large positive numbers.</li> </ul>	<ul style="list-style-type: none"> <li>Solve number problems and practical problems involving the above.</li> </ul>	<ul style="list-style-type: none"> <li>Solve number problems and practical problems involving the above.</li> </ul>	
	<b>Rounding</b>							
				<ul style="list-style-type: none"> <li>Round any number to the nearest 10, 100</li> </ul>	<ul style="list-style-type: none"> <li>Round any number to the nearest 10, 100, 1000.</li> <li>Round decimals with one decimal place to the nearest whole number.</li> </ul>	<ul style="list-style-type: none"> <li>Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000.</li> <li>Round decimals with two decimal places to the nearest whole number and 1 decimal place.</li> </ul>	<ul style="list-style-type: none"> <li>Round any number to a required degree of accuracy including decimals.</li> </ul>	
	<b>Negative numbers</b>							
				<ul style="list-style-type: none"> <li>Count backward through zero to include negative numbers.</li> </ul>	<ul style="list-style-type: none"> <li>Interpret negative numbers in contexts.</li> <li>Count forwards and backwards with positive and negative whole numbers.</li> </ul>	<ul style="list-style-type: none"> <li>Use negative numbers in context and calculate intervals across zero.</li> </ul>		
<b>Number bonds</b>								
	<ul style="list-style-type: none"> <li>Calculate simple addition and subtraction questions up to 10. (0-5, 0-10)</li> </ul>	<ul style="list-style-type: none"> <li>Represent and use number bonds and related subtraction facts within 20.</li> </ul>	<ul style="list-style-type: none"> <li>Recall and use number bonds to 20 (addition and subtraction) fluently.</li> <li>Use number bonds, and related facts, to derive related facts to 100.</li> </ul>					

<b>Mental calculation (note this may include the use of resources to scaffold)</b>						
<ul style="list-style-type: none"> <li>○ Show addition and subtraction calculations using objects</li> <li>○</li> </ul>	<ul style="list-style-type: none"> <li>○ Add and subtract 1 digit and 2 digit numbers up to 20 including 0.</li> <li>○ Solve 1 step problems that involve addition and subtraction using concrete objects, pictorial representations and missing number problems.</li> </ul>	<ul style="list-style-type: none"> <li>○ Add and subtract two 2 digit numbers</li> <li>○ add three 1 digit numbers (using concrete, pictorial and mental)</li> <li>○ Solve problems with addition and subtraction, using concrete objects and pictorial representations, including those involving quantities, measures and money</li> <li>○ Know that addition of 2 numbers is commutative and subtraction is not.</li> </ul>	<ul style="list-style-type: none"> <li>○ Add and subtract a 3 digit number and ones, 3 digit number and tens, and 3 digit number and hundreds (mentally).</li> <li>○ Solve problems using number facts, place value and complex addition and subtraction.</li> </ul>		<ul style="list-style-type: none"> <li>○ Add and subtract numbers mentally using increasingly large numbers.</li> </ul>	<ul style="list-style-type: none"> <li>○ Perform mental calculations with mixed operations and large numbers.</li> <li>○ Use BIDMAS</li> </ul>
<b>Inverse and rounding</b>						
		<ul style="list-style-type: none"> <li>○ Recognise and use the inverse relationship</li> <li>○ Use the inverse to solve missing number problems</li> </ul>	<ul style="list-style-type: none"> <li>○ Use inverse and estimation to check answers.</li> </ul>	<ul style="list-style-type: none"> <li>○ Use inverse and estimation to check answers.</li> </ul>	<ul style="list-style-type: none"> <li>○ Use rounding to check answers to calculation and determine, in the context of the problem, levels of accuracy.</li> </ul>	
<b>Written calculation</b>						

	○ Use the + - and = sign	○ Read write and interpret mathematical statements involving addition and subtraction.		○ Add and subtracts numbers with up to 3 digits using formal written methods using column addition and subtraction.	○ Add and subtract numbers with up to 4 digits using formal written methods using column addition and subtraction.	○ Add and subtract numbers with more than 4 digits using formal written methods using column addition and subtraction.		
	○ Solve 2 step addition and subtraction questions in contexts deciding which operation and method is suitable and why.							
<b>Multiplication and division</b>	<b>Equal sharing/odd and even</b>							
	○ Equal sharing (halving) of numbers up to 10 using objects. ○ Doubling of numbers up to 10 using objects.	○ Recognise odd and even numbers	○ Apply multiplication and division facts to recognise odd and even numbers.					
	<b>Mental calculation</b>							
			○ Recall multiplication and division facts for the 2 5 and 10 times tables.	○ Recall multiplication and division facts for the 3 4 and 8 times tables.	○ Recall multiplication and division facts for multiplication facts up to 12x12.			
		○ Solve simple multiplication and division using concrete objects and arrays	○ Solve multiplication and division questions in context and using resources, arrays, mental facts and repeated addition	○ Solve multiplication and division questions using multiplication facts they know through mental methods	○ Use known facts to multiply and divide by 1 and 0 and multiply three different numbers.	○ Multiply and divide mentally using known facts.	○ Solve mixed operation questions with large numbers mentally. ○ solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts (ratio and proportion)	
		○ Understand that multiplication is commutative, and division is not.		○ Use factor pairs and knowledge of commutativity in mental calculations.	○ Identify factors and multiples including 2 common factors of a pair of numbers. ○ Know and use the terms of prime numbers, prime	○ Identify common factors, common multiples and prime factors		

						<ul style="list-style-type: none"> <li>factors and composite numbers.</li> <li>○ Establish whether any number up to 100 is a prime number.</li> <li>○ Recall prime numbers up to 19.</li> <li>○ Recognise and use squared and cubes including notation.</li> </ul>	
<b>Written calculation</b>							
		<ul style="list-style-type: none"> <li>○ Use <math>\times</math> and <math>\div</math> symbols to calculate questions within the multiplication tables.</li> </ul>	<ul style="list-style-type: none"> <li>○ Solve multiplication questions using multiplication facts they know using progressing written methods.</li> </ul>	<ul style="list-style-type: none"> <li>○ Solve multiplication questions of 2/3 digit numbers by a 1 digit number using formal written methods.</li> </ul>	<ul style="list-style-type: none"> <li>○ Solve multiplication questions of 4 digit numbers by a 1/2 digit number using formal written methods including long multiplication.</li> </ul>	<ul style="list-style-type: none"> <li>○ Solve multiplication questions of 4 digit numbers by a 2 digit numbers using long multiplication.</li> </ul>	
					<ul style="list-style-type: none"> <li>○ Divide 4 digit numbers with 1 digit numbers using short division and interpret the remainder.</li> </ul>	<ul style="list-style-type: none"> <li>○ Divide 4 digit numbers with 2 digit numbers using short and long division and interpret the remainder by rounding or as a fraction or whole number.</li> <li>○ Use written division methods where the answer has up to 2 decimal places.</li> </ul>	
<b>Problem solving</b>							
			<ul style="list-style-type: none"> <li>○ Solve missing number multiplication and division problems, scaling problems (3x more girls than boys) and correspondence problems (3 packets of 4 sweets).</li> </ul>	<ul style="list-style-type: none"> <li>○ Solve missing number multiplication and addition problems using the distributive law, scaling problems (3x more girls than boys) and harder correspondence problems (3 packets of 4 sweets).</li> </ul>	<ul style="list-style-type: none"> <li>○ Solve problems using multiplication and division problems using their knowledge of factors, multiples, squares, cubes and scaling problems using simple fractions including understanding of the equals sign.</li> </ul>		

Fractions	Recognising fractions						
		<ul style="list-style-type: none"> <li>○ Recognise, find and name a <b>half</b> as 1 part of 2 equal parts in an object, shape or quantity.</li> <li>○ Recognise, find and name a <b>quarter</b> as 1 part of 4 equal parts in an object, shape or quantity.</li> </ul>	<ul style="list-style-type: none"> <li>○ Recognise, find, name and write <math>\frac{1}{2}</math>, <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math> and <math>\frac{3}{4}</math> of a length, shape object or quantity.</li> </ul>	<ul style="list-style-type: none"> <li>○ Recognise, find and write <b>unit</b> (<math>\frac{1}{6}</math>) and <b>non-unit</b> (<math>\frac{2}{6}</math>) fractions with small denominators.</li> <li>○ Recognise, find and write <b>tenths</b> as 1 part of 10 equal pieces</li> </ul>	<ul style="list-style-type: none"> <li>○ Recognise <b>hundredths</b> are ones divided by 100 and tenths divided by 10.</li> </ul>	<ul style="list-style-type: none"> <li>○ Recognise and use <b>thousands</b> and relate them to tenths, hundredths and decimal equivalents</li> </ul>	
				<ul style="list-style-type: none"> <li>○ . Count in tenths and divide 1 digit numbers by 10.</li> </ul>	<ul style="list-style-type: none"> <li>○ Count up in down in hundredths</li> </ul>	<ul style="list-style-type: none"> <li>○ Round decimals with 2 d.p to the nearest whole number and to 1dp</li> </ul>	
	Equivalence (including decimals)						
			<ul style="list-style-type: none"> <li>○ Recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math>.</li> </ul>	<ul style="list-style-type: none"> <li>○ Recognise and show equivalent fractions.</li> </ul>	<ul style="list-style-type: none"> <li>○ Recognise and show families of equivalent fractions.</li> </ul>	<ul style="list-style-type: none"> <li>○ Identify, name and write equivalent fractions including tenths and hundredths.</li> <li>○ Read, write, order and compare numbers up to 3 dp</li> </ul>	<ul style="list-style-type: none"> <li>○ Use common factors to simplify fractions and find equivalent fractions.</li> </ul>
					<ul style="list-style-type: none"> <li>○ Recognise and write decimal equivalents of tenths and hundredths</li> <li>○ Recognise and write decimal equivalents to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math> and <math>\frac{3}{4}</math> .</li> </ul>	<ul style="list-style-type: none"> <li>○ Read and write decimal numbers as fractions (<math>0.61 = \frac{61}{100}</math>)</li> <li>○ Solve problems that require knowledge of percentage and decimal equivalent of <math>\frac{1}{4}</math> <math>\frac{1}{2}</math> <math>\frac{2}{5}</math> <math>\frac{4}{5}</math>.</li> </ul>	<ul style="list-style-type: none"> <li>○ Recall and use equivalences between decimals, fractions and percentages to solve problems.</li> <li>○ Recognise a fraction as division and use this to find decimal equivalents</li> </ul>
						<ul style="list-style-type: none"> <li>○ Recognise mixed fractions and improper fractions and convert between them, recognising when they are more than 1.</li> </ul>	
	Calculations (including comparison)						

N e				<ul style="list-style-type: none"> <li>○ Compare unit fractions.</li> <li>○ Compare fractions with the same denominator.</li> </ul>		<ul style="list-style-type: none"> <li>○ Compare and order fractions where the denominators are all multiples of the same number.</li> </ul>	<ul style="list-style-type: none"> <li>○ Compare and order fractions.</li> </ul>
				<ul style="list-style-type: none"> <li>○ Find fractions of numbers.</li> <li>○ Add and subtract fractions with the same denominator within a whole.</li> </ul>	<ul style="list-style-type: none"> <li>○ Add and subtract fractions with the same denominator.</li> </ul>	<ul style="list-style-type: none"> <li>○ Add and subtract fractions with denominators that are multiples of the same number.</li> </ul>	<ul style="list-style-type: none"> <li>○ Add and subtractions fractions with different denominators and mixed fraction through equivalent fractions.</li> </ul>
					<ul style="list-style-type: none"> <li>○ Divide numbers by 10 and 100, recognising the place value position of the tenths and hundredths</li> </ul>	<ul style="list-style-type: none"> <li>○ Multiply mixed and improper fractions with whole numbers, supported by resources.</li> </ul>	<ul style="list-style-type: none"> <li>○ Multiply fractions giving the answer in its simplest form.</li> <li>○ Divide fractions by whole numbers.</li> </ul>
				<ul style="list-style-type: none"> <li>○ Solve problems using all fraction knowledge.</li> </ul>	<ul style="list-style-type: none"> <li>○ Solve problems using fractions and decimals of up to 2 decimal places.</li> <li>○ Solve problems to calculate and divide quantities including where the answer is a whole number.</li> </ul>		<ul style="list-style-type: none"> <li>○ solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul>
						<ul style="list-style-type: none"> <li>○ Recognise the percent symbol and the importance of 100. Write percentages as a fraction with a denominator of 100.</li> </ul>	<ul style="list-style-type: none"> <li>○ solve problems involving the calculation of and the use of percentages for comparison (ratio and proportion)</li> </ul>
Units of measure							

**THE QUEEN'S C OF E PRIMARY Maths - progression and skills map**

red = not part of NC but The Queen's School teach these strands

	<ul style="list-style-type: none"> <li>○ Explore measure of weight and length.</li> <li>○ (heavier, lighter, longer, shorter)</li> <li>○ Discuss capacity, identifying if things are full, half full, empty, nearly empty, half empty and nearly full.</li> </ul>	<ul style="list-style-type: none"> <li>○ Measure, record, compare, describe and solve problems involving:                             <ul style="list-style-type: none"> <li>-Length (taller/shorter)</li> <li>-Mass (lighter/heavier)</li> <li>-capacity (full, almost full)</li> <li>-Time (quick/slow/earlier)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>○ Use appropriate equipment and units to when estimating, ordering (using <math>&gt;</math> <math>&lt;</math>) and measuring                             <ul style="list-style-type: none"> <li>-length (m/cm)</li> <li>- mass (g/kg)</li> <li>- temperature</li> <li>- capacity (l/ml)</li> </ul> </li> <li>○ Read scales in division of ones, twos, fives and tens</li> </ul>	<ul style="list-style-type: none"> <li>○ Measure, compare, add and subtract lengths, mass and volume, giving their answer with the correct units.</li> </ul>	<ul style="list-style-type: none"> <li>○ Convert between units of measure</li> </ul>	<ul style="list-style-type: none"> <li>○ Convert between units of measure</li> </ul>	<ul style="list-style-type: none"> <li>○ convert and solve problems between standard units using decimal notation to up to three decimal places</li> </ul>	
						<ul style="list-style-type: none"> <li>○ Understand and use approximate equivalences between metric and common imperial.</li> </ul>	<ul style="list-style-type: none"> <li>○ convert between miles and kilometres</li> </ul>	
	<b>Money</b>							
	<ul style="list-style-type: none"> <li>○ I can identify different coins and their values.</li> </ul>	<ul style="list-style-type: none"> <li>○ Recognise and know the value of different coins.</li> <li>○ I can add coins together and find their total.</li> </ul>	<ul style="list-style-type: none"> <li>○ Recognise and use £ and p and combine amounts to make a value.</li> <li>○ Find different combinations of coins that make the same amount of money.</li> <li>○ Solve problems involving money of the same unit, including giving change.</li> </ul>	<ul style="list-style-type: none"> <li>○ Add and subtract amounts of money using £ and p, including giving change.</li> </ul>	<ul style="list-style-type: none"> <li>Estimate, compare and calculate using £ and p</li> </ul>			
<b>Time</b>								
<ul style="list-style-type: none"> <li>○ Tell the time to the hour</li> <li>○ Identify and explore ways of measuring time</li> <li>○</li> </ul>	<ul style="list-style-type: none"> <li>○ Tell the time to the hour and half past and draw hands on a clock.</li> </ul>	<ul style="list-style-type: none"> <li>○ Compare and sequence intervals of time.</li> <li>○ Tell and write time to the nearest 15 minutes, including quarter too and quarter past and draw hands on a clock.</li> </ul>	<ul style="list-style-type: none"> <li>○ Compare duration of events</li> <li>○ Read and write the time from an analogue clock including 24 hours and roman numerals.</li> <li>○ Read, record and estimate time with increasing accuracy</li> </ul>	<ul style="list-style-type: none"> <li>○ Read write and convert between 12 and 24 hour clock</li> </ul>	<ul style="list-style-type: none"> <li>○ Solve problems converting between units of time</li> </ul>			

	<ul style="list-style-type: none"> <li>o I can say the days of the week.</li> <li>o To use everyday language related to time</li> </ul>	<ul style="list-style-type: none"> <li>o Use days of the week, months and dates.</li> <li>o Sequence events using first, today, yesterday, tomorrow...</li> </ul>	<ul style="list-style-type: none"> <li>o Know the number of minutes in an hour, and number of hours in a day.</li> </ul>	<ul style="list-style-type: none"> <li>o Know the number of seconds in a minutes, and number of days in each month, year and leap year</li> </ul>	<ul style="list-style-type: none"> <li>o Solve problems that include converting between hours to minutes, minutes to seconds, years to months and weeks to days</li> </ul>			
	<b>Area, perimeter and volume</b>							
						<ul style="list-style-type: none"> <li>o Measure perimeter</li> </ul>	<ul style="list-style-type: none"> <li>o Calculate perimeter of rectangular shapes, including composite.</li> </ul>	<ul style="list-style-type: none"> <li>o recognise that shapes with the same area can have different perimeters</li> </ul>
							<ul style="list-style-type: none"> <li>o Calculate the area of rectangles and estimate area of irregular shapes</li> </ul>	<ul style="list-style-type: none"> <li>o calculate area of parallelograms and triangles</li> </ul>
							<ul style="list-style-type: none"> <li>o Estimate volume and capacity</li> </ul>	<ul style="list-style-type: none"> <li>o Use formulae to calculate volume of cuboids and consider when a formula if appropriate.</li> </ul>
<b>Properties of shapes</b>	<b>2D shapes</b>							
	<ul style="list-style-type: none"> <li>o To recognise and name 2-d shapes</li> </ul>	<ul style="list-style-type: none"> <li>o Recognise and recall names of common 2-D shapes (rectangles (including squares), circles and triangles)</li> </ul>	<ul style="list-style-type: none"> <li>o Identify and describe the properties of 2d shapes including sides and lines of symmetry</li> <li>o Identify 2d shapes within a 3d shape</li> </ul>	<ul style="list-style-type: none"> <li>o Draw 2d shapes</li> </ul>	<ul style="list-style-type: none"> <li>o Compare and classify shapes based on their properties and sizes</li> <li>o Identify lines of symmetry in 2D shapes at different orientations</li> <li>Complete a symmetric figure with respect to a given line of symmetry.</li> </ul>	<ul style="list-style-type: none"> <li>o Use properties of oblongs to deduce missing facts including sides and angles.</li> <li>o Distinguish between regular and irregular polygons based on equal sides and angles</li> </ul>	<ul style="list-style-type: none"> <li>o Draw 2d shapes using given dimensions and angles</li> </ul>	

P O S							<ul style="list-style-type: none"> <li>○ Illustrate and names part of a circle including: radius, circumference and diameter and know diameter is twice the radius</li> </ul>
	<b>3D shapes</b>						
	<ul style="list-style-type: none"> <li>○ To recognise and name 3D shapes and know some of their properties.</li> </ul>	<ul style="list-style-type: none"> <li>○ recognise and recall names of common 3-D cuboids (including cubes), pyramids and sphere</li> </ul>	<ul style="list-style-type: none"> <li>○ Identify and describe the properties of 3d shapes including edges, faces, and vertices</li> <li>○ Compare and sort 2D and 3D shapes and everyday objects</li> <li>○ Recognise 3d shapes in everyday objects</li> </ul>	<ul style="list-style-type: none"> <li>○ Make 3d shapes using modelling materials and recognise them at different orientations</li> </ul>		<ul style="list-style-type: none"> <li>○ Identify 3D shapes by 2D representations</li> </ul>	<ul style="list-style-type: none"> <li>○ Recognise, describe and build 3d shapes, including with nets</li> </ul>
	<b>Angles</b>						
				<ul style="list-style-type: none"> <li>○ Recognise angles as a properties of shape or a description of a turn</li> </ul>		<ul style="list-style-type: none"> <li>○ Know angles are measured in degeed. Draw given angles and measure them in degrees</li> </ul>	<ul style="list-style-type: none"> <li>○ Find missing angles in triangles, quadrilaterals and regular polygons.</li> </ul>
				<ul style="list-style-type: none"> <li>○ Identify right angles</li> <li>○ Say whether a angle is more or less than a right angle</li> <li>○</li> </ul>	<ul style="list-style-type: none"> <li>○ Identify acute and obtuse angles and compare them</li> </ul>	<ul style="list-style-type: none"> <li>○ Compare acute, obtuse and reflex angles</li> </ul>	
				<ul style="list-style-type: none"> <li>○ Identify right angles in quarter, half and three quarter turns</li> <li>○ Identify horizontal and vertical lines</li> <li>○ Identify pairs of perpendicular and parallel lines</li> </ul>		<ul style="list-style-type: none"> <li>○ Identify angles: around a point are 360, on a straight line are 180 and other multiples of 90</li> </ul>	<ul style="list-style-type: none"> <li>○ Recognise angles when they meet on a point, on a straight line or vertically opposite and find missing angles.</li> </ul>
	<b>Position and direction</b>						

**THE QUEEN'S C OF E PRIMARY Maths - progression and skills map**

red = not part of NC but The Queen's School teach these strands

		<ul style="list-style-type: none"> <li>○ Describe position, direction and movement</li> <li>○ Use whole, half, quarter and three quarter turns</li> </ul>	<ul style="list-style-type: none"> <li>○ Use whole, half, quarter and three quarter turns (clockwise and anticlockwise) to describe position, direction and movement</li> <li>○ Order and arrange objects in patterns and sequences</li> </ul>		<ul style="list-style-type: none"> <li>○ Describe positions on a 2D grid, in the first quadrant</li> <li>○ Describe movement between translations (left/right up/down)</li> <li>○ Plot points to draw a polygon</li> </ul>	<ul style="list-style-type: none"> <li>○ Identify, describe and present the position of a shape after a translation or reflection knowing the shape hasn't changed.</li> </ul>	<ul style="list-style-type: none"> <li>○ Describe position on a full coordinate grid</li> <li>○ Draw and translate shapes and reflect them on the coordinate plane.</li> <li>○ solve problems involving similar shapes where the scale factor is known or can be found (ratio and proportion)</li> </ul>
<b>Statistics</b>	<b>Statistics</b>						
			<ul style="list-style-type: none"> <li>○ Interpret and construct                             <ul style="list-style-type: none"> <li>- pictograms</li> <li>- Tally charts</li> <li>- Block diagrams</li> <li>- Simple tables</li> </ul> </li> <li>○ Sort categories by quantity by counting the number of objects</li> <li>○ Total and compare data</li> <li>○ Ask and answer simple questions about information presented</li> </ul>	<ul style="list-style-type: none"> <li>○ Interpret and construct                             <ul style="list-style-type: none"> <li>-Pictograms</li> <li>-Bar charts</li> <li>-Tables</li> </ul> </li> <li>○ Answer questions using information presented in pictograms and charts</li> </ul>	<ul style="list-style-type: none"> <li>○ Interpret and present discrete and continuous data using                             <ul style="list-style-type: none"> <li>- bar charts</li> <li>- Time graphs</li> </ul> </li> <li>○ Solve comparison, sum and difference problems using information presented in charts and graphs</li> </ul>	<ul style="list-style-type: none"> <li>○ Solve comparison, sum and difference problems using information presented in line graphs</li> <li>○ Complete read and interpret information in timetables</li> </ul>	<ul style="list-style-type: none"> <li>○ Interpret and construct                             <ul style="list-style-type: none"> <li>- pie charts</li> <li>-line graphs</li> </ul> </li> <li>○ use them to solve problems.</li> <li>○ Calculate and interpret the mean as an average.</li> </ul>
<b>Algebra</b>	<b>Algebra</b>						

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							<ul style="list-style-type: none"><li>○ use simple formulae</li><li>○ generate and describe linear number sequences</li><li>○ express missing number problems algebraically</li><li>○ find pairs of numbers that satisfy an equation with two unknowns</li><li>○ Enumerate possibilities of combinations of two variables.</li></ul>
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