



St Bede's Catholic Primary School Mathematics Progression

	EYFS	Y1	Y2	Y3	Y4	Y5	Y6
Place value: counting	<ul style="list-style-type: none"> -Count up to three or four objects by saying a number name for each item -Count actions or objects which cannot be moved -Count objects to 10 and begin to count beyond 10 -Count out up to six objects from a larger group -Count an irregular arrangement of up to ten objects ELG - count reliably with numbers from one to 20 	<ul style="list-style-type: none"> -Count in steps to and across 100, forwards and backwards, beginning with 0 or 1 from any given number. -Count numbers to 100 in numerals; count in multiples of twos, fives and tens. 	<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. 	<ul style="list-style-type: none"> -Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number. 	<ul style="list-style-type: none"> -Count in multiples of 6, 7, 9, 25 and 1000. -Count backwards through zero to include negative numbers. 	<ul style="list-style-type: none"> -Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 -Count forwards and backwards with positive and negative whole numbers including through zero. 	<ul style="list-style-type: none"> -Consolidation of previous year's learning.
Place value: represent	<ul style="list-style-type: none"> -Recognise some numerals of personal significance Recognise numerals 1 to 5 	<ul style="list-style-type: none"> -Identify and represent numbers using objects and pictorial representations. -Read and write numbers to 100 in numerals. -Read and write numbers from 1 to 20 in numerals and words. 	<ul style="list-style-type: none"> -Read and write numbers to at least 100 in numerals and in words. -Identify, represent and estimate numbers using different representations including the number line. 	<ul style="list-style-type: none"> -Identify, represent and estimate numbers using different representations. -Read and write numbers up to 1000 in numerals and in words. 	<ul style="list-style-type: none"> -Identify, represent and estimate numbers using different representations. -Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value. 	<ul style="list-style-type: none"> -Read, write (order and compare) numbers to at least 1, 000, 000 and determine the value of each digit. -Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. 	<ul style="list-style-type: none"> -Read, write (order and compare) numbers up to 10, 000, 000 and determine the value of each digit.



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Place value: use place value and compare	<p>Use the language of 'more' and 'fewer' to compare two sets of objects</p> <p>ELG - with numbers from one to 20, place them in order</p> <p>Say the number that is one more than a given number ELG - with numbers from 1 to 20 say which number is one more or less than a given number</p>	<p>Use the language of: equal to, more than, less than most, least (fewer)</p>	<p>Recognise the place value of each digit in a two-digit number (tens and ones).</p> <p>Compare and order numbers from 0 up to 100; use $<$, $>$ and $=$ signs</p>	<p>Recognise the place value of each digit in a three-digit number (hundreds, tens and ones).</p> <p>Compare and order numbers up to 1000</p>	<p>Find 1000 more or less than a given number.</p> <p>-Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones)</p> <p>Order and compare numbers beyond 1000</p>	<p>Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit (appears also in Reading and Writing Numbers)</p>	<p>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit (appears also in Reading and Writing Numbers)</p>
Place value: problems and rounding	<p>-To solve problems in continuous provision areas involving these ideas.</p>	<p>- Use number facts to solve problems.</p>	<p>- Use place value and number facts to solve problems.</p>	<p>-Solve number problems and practical problems involving these ideas</p>	<p>-Round any number to the nearest 10, 100 and 1000. -Solve number problems that involve all of the above and with increasingly large positive numbers.</p>	<p>-Interpret negative numbers in context e.g. thermometers. -Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000.</p>	<p>-Round any whole number to a required degree of accuracy. -Use negative numbers in context and calculate intervals across zero. -Solve number and practical problems that involve all of the above.</p>



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Addition and subtraction: recall, represent and use	<p>-Find the total number of items in two groups by counting all of them -In practical activities and discussion, begin to use the vocabulary involved in adding and subtracting - Record, using marks that they can interpret and explain</p> <p>ELG - using quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer</p>	<p>-Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs - Represent and use number bonds and related subtraction facts within 20.</p>	<p>-Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100. -Show that addition of two numbers can be done in any order (commutative) and subtraction of one from the other cannot. -Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</p>	<p>-Estimate the answer to a calculation and use inverse operations to check answers.</p>	<p>-Estimate and use inverse operations to check answers to a calculation.</p>	<p>-Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.</p>	
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Addition & subtraction: calculations	<p>-Find the total number of items in two groups by counting all of them -In practical activities and discussion, begin to use the vocabulary involved in adding and subtracting Record, using marks that they can interpret and explain</p> <p>ELG - using quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer</p>	<p>Add and subtract one-digit and two digit numbers to 20, including zero</p>	<p>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:</p> <p>a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one digit numbers</p>	<p>Add and subtract numbers mentally, including: a three-digit number and ones a three-digit number and tens a three-digit number and hundreds -Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtractions</p>	<p>-Add and subtract numbers with up to four digits, using formal written methods of columnar addition and subtractions where appropriate.</p>	<p>-Add and subtract numbers with more than four digits, using formal written methods of columnar addition and subtraction. -Add and subtract numbers mentally with increasingly large numbers</p>	<p>-Perform mental calculations, including with mixed operations and large numbers -Use their knowledge of operations to carry out calculations involving the four operations.</p>
Addition & subtraction: Solve problems	<p>Begin to identify their own mathematical problems based on own interests and fascinations</p>	<p>-Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = ? - 9$.</p>	<p>- Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods.</p>	<p>-Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</p>	<p>-Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why.</p>	<p>-Solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why -Solve problems involving addition, subtraction, multiplication and division and a combination of these including understanding the meaning of the equals sign.</p>	<p>-Solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why.</p>



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Multiplication & division: Recall, represent and use			<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 -Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot 	<ul style="list-style-type: none"> -Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables 	<ul style="list-style-type: none"> -Recall multiplication and division facts for multiplication tables up to 12x12 -Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers -Recognise and use factor pairs and commutativity in mental calculations (appears also in Mental Calculation) 	<ul style="list-style-type: none"> -Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers -Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers -Establish whether a number up to 100 is prime and recall prime numbers up to 19 -Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³) 	<ul style="list-style-type: none"> -Identify common factors, common multiples and prime numbers. -Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy



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Multiplication & division: calculations			<p>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals ($=$) signs</p>	<p>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods (appears also in Mental Methods)</p>	<p>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout</p>	<p>Multiply numbers up to 4 digits by a one- or two digit number using a formal written method, including long multiplication for two digit numbers</p> <p>Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context</p>	<p>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</p> <p>Divide numbers up to 4 digits by a two-digit whole number using the formal written method of short division where appropriate for the context divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context</p> <p>Perform mental calculations, including with mixed operations and large numbers</p>



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Multiplication & division: solve problems	ELG - solve problems, including doubling, halving and sharing	- 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	- Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	-Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects	Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes	-Solve problems involving addition, subtraction, multiplication and division
Multiplication & division: mixed operations						Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	- Use their knowledge of the order of operations to carry out calculations involving the four operations



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Fractions: recognise & write		<p>Recognise, find and name a half as one of two equal parts of an object, shape or quantity</p> <p>Recognise, find and name a half as one of two equal parts of an object, shape or quantity</p>	<p>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</p>	<p>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</p> <p>Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10</p> <p>Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators</p>	<p>Count up and down in hundredths</p> <p>Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten</p>	<p>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (appears also in Equivalence)</p> <p>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1 \frac{1}{5}$)</p>	-
Fractions: compare			<p>Write simple fractions e.g. $\frac{1}{2}$ of $6 = 3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$</p>	<p>Recognise and show, using diagrams, equivalent fractions with small denominators</p> <p>Compare and order unit fractions, and fractions with the same denominators</p>	<p>Recognise and show, using diagrams, families of common equivalent fractions</p>	<p>Compare and order fractions whose denominators are all multiples of the same number</p>	<p>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination</p> <p>Compare and order fractions, including fractions > 1</p>



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Fractions: calculations			Write simple fractions e.g. $\frac{1}{2}$ of $6 = 3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	Add and subtract fractions with the same denominator within one whole (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$)	Add and subtract fractions with the same denominator	Add and subtract fractions with the same denominator and denominators that are multiples of the same number Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$); multiply one-digit numbers with up to two decimal places by whole numbers Divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$)
Fractions: solve problems				Solve problems that involve all of the above.	Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number	Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number	Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number



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Decimals: recognise and write					Recognise and write decimal equivalents of any number of tenths or hundredths Recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$	Read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$) Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	Identify the value of each digit in numbers given to three decimal places
					Round decimals with one decimal place to the nearest whole number Compare numbers with the same number of decimal places up to two decimal places	Round decimals with two decimal places to the nearest whole number and to one decimal place Read, write, order and compare numbers with up to three decimal places	



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Decimals: calculations and problems					Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths	Solve problems involving numbers up to three decimal places	Multiply one-digit numbers with up to two decimal places by whole numbers multiply one-digit numbers with up to two decimal places by whole numbers Use written division methods in cases where the answer has up to two decimal places Solve problems which require answer to be rounded to specified degrees of accuracy
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Fractions, decimals and percentages					<p>Solve simple measure and money problems involving fractions and decimals to two decimal places.</p>	<p>Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal</p> <p>Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those with a denominator of a multiple of 10 or 25</p>	<p>Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$)</p> <p>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</p>
Algebra		<p>Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = ? - 9$</p>	<p>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems</p>	<p>Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction</p>			<p>Use simple formulae</p> <p>Express missing number problems algebraically</p> <p>Find pairs of numbers that satisfy number sentences involving two unknowns</p>



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		<p><u>Note: although algebraic notation is not introduced until Y6, algebraic thinking starts much earlier as exemplified by the 'missing number' objectives from Y1/2/3</u></p>			Enumerate all possibilities of combinations of two variables
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Ratio and proportion							<p>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts</p> <p>Solve problems involving similar shapes where the scale factor is known or can be found</p> <p>Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison</p> <p>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</p>
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Measurement: using measures	<p>Order two or three items by length or height</p> <p>Order two items by weight or capacity</p>	<p>Compare, describe and solve practical problems for: lengths & heights [e.g. long/short, longer/shorter, tall/short, double/half] mass/weight [e.g. heavy/light, heavier than, lighter than] - capacity & volume [e.g. full/empty, more than, less than, half, half full, quarter] time [e.g. quicker, slower, earlier, later]</p>	<p>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</p> <p>Compare and order lengths, mass, volume/capacity and record the results using >, < and =</p>	<p>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</p>	<p>Convert between different units of measure (e.g. kilometre to metre; hour to minute)</p> <p>Estimate, compare and calculate different measures in Comparing)</p>	<p>Convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)</p> <p>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints</p> <p>Solve problems involving converting between units of time</p>	<p>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate</p> <p>Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places</p> <p>Convert between miles and kilometres</p>
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Measurement: money		Recognise and know the value of different denominations of coins and notes	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value 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	Add and subtract amounts of money to give change, using both £ and p in practical contexts	Estimate, compare and calculate different measures including money in pounds and pence.	Use all four operations to solve problems involving money (for example, money)	Use all four operations to solve problems involving money (for example, money)



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Measurement: time	<p>-Order and sequence familiar events -Measure short periods of time in simple ways</p> <p>ELG - children use everyday language to talk about time</p>	<p>Sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]</p> <p>Recognise and use language relating to dates, including days of the week, weeks, months and years</p> <p>Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times</p>	<p>Compare and sequence intervals of time</p> <p>Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times</p> <p>Know the number of minutes in an hour and the number of hours in a day</p>	<p>Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks</p> <p>Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight</p> <p>Know the number of seconds in a minute and the number of days in each month, year and leap year</p> <p>Compare durations of events, for example to calculate the time taken by particular events or tasks</p>	<p>Read, write and convert time between analogue and digital 12- and 24-hour clocks</p> <p>Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days</p>	<p>Solve problems involving converting between units of time</p>	<p>Use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places</p>
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Measurement: perimeter, area and volume				<p>Measure the perimeter of simple 2D shapes</p>	<p>Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</p> <p>Find the area of rectilinear shapes by counting squares</p>	<p>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</p> <p>Calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes</p> <p>Estimate volume (e.g. using 1cm³ blocks to build cubes and cuboids) and capacity (e.g. using water)</p>	<p>Recognise that shapes with the same areas can have different perimeters and vice versa</p> <p>Recognise when it is possible to use formulae for area and volume of shapes</p> <p>Calculate the area of parallelograms and triangles</p> <p>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units such as mm³ and km³</p>
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Geometry: 2D shapes	<p>Use familiar objects and common shapes to create and recreate patterns</p> <p>ELG - They recognise, create and describe patterns</p> <p>Begin to use mathematical names for 'solid' 3D shapes and 'flat' 2D shapes, and mathematical terms to describe shapes</p> <p>ELG - They explore characteristics of everyday objects and shapes and use mathematical language to describe them</p>	<p>Recognise and name common 2D and 3D shapes, including: - 2D shapes [e.g. rectangles (including squares), circles and triangles]</p> <p>-</p>	<p>Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line</p> <p>Identify 2D shapes on the surface of 3D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</p> <p>Compare and sort common 2D and 3D shapes and everyday objects</p>	<p>Draw 2D Shapes</p>	<p>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</p> <p>Identify lines of symmetry in 2D shapes presented in different orientations</p>	<p>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles</p> <p>Use the properties of rectangles to deduce related facts and find missing lengths and angles</p>	<p>Draw 2D shapes using given dimensions and angles</p> <p>Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons</p> <p>Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.</p>
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Geometry: 3D shapes	<p>Use familiar objects and common shapes to create and recreate patterns</p> <p>ELG - They recognise, create and describe patterns</p> <p>Begin to use mathematical names for 'solid' 3D shapes and 'flat' 2D shapes, and mathematical terms to describe shapes</p> <p>ELG - They explore characteristics of everyday objects and shapes and use mathematical language to describe them</p>	<p>Recognise and name common 3D shapes [e.g. cuboids (including cubes), pyramids and spheres]</p>	<p>Recognise and name 3D shapes e.g. cuboids, cubes, pyramids and spheres.</p> <p>Compare and sort common 2D and 3D shapes and everyday objects</p>	<p>Make common 3d shapes using modelling materials; recognise 3-D shapes in different orientations and describe them</p>	<p style="text-align: center;">-</p>	<p>Identify 3D shapes, including cubes and other cuboids, from 2D representations</p>	<p>Recognise, describe and build simple 3D shapes, including making nets</p>
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Geometry: angles and lines				<p>Recognise angles as a property of shape or a description of a turn</p> <p>Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle</p> <p>Identify horizontal and vertical lines and pairs of perpendicular and parallel lines</p>	<p>Identify acute and obtuse angles and compare and order angles up to two right angles by size</p> <p>Identify lines of symmetry in 2D shapes presented in different orientations</p> <p>Complete a simple symmetric figure with respect to a specific line of symmetry</p>	<p>Know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles</p> <p>Draw given angles, and measure them in degrees ($^{\circ}$)</p> <p>Identify: angles at a point and one whole turn (total 360°) angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) other multiples of 90°</p>	<p>Find unknown angles in any triangles, quadrilaterals and regular polygons.</p> <p>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles</p>
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Geometry: position and direction		Describe position, direction and movement, including half, quarter and three quarter turns	<p>Order and arrange combinations of mathematical objects in patterns and sequences</p> <p>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>		<p>Describe positions on a 2D grid as coordinates in the first quadrant</p> <p>Describe movements between positions as translations of a given unit to the left/right and up/down</p> <p>Plot specified points and draw sides to complete a given polygon</p>	Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed	<p>Describe positions on the full coordinate grid (all four quadrants)</p> <p>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes</p>
Statistics: present and interpret			Interpret and construct simple pictograms, tally charts, block diagrams and simple tables	Interpret and present data using bar charts, pictograms and tables	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs	Complete, read and interpret information in tables, including timetables	Interpret and construct pie charts and line graphs and use these to solve problems



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Statistics: solve problems			Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity	Solve one-step and two-step questions [e.g. 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables	Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	Solve comparison, sum and difference problems using information presented in a line graph	Calculate and interpret the mean as an average
			Ask and answer questions about totalling and comparing categorical data				