



The Stonebridge School Mathematics Progression Map



	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Place Value: Counting	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').	Numbers to five: One, two, three, four, five. Counting to 6, 7 and 8. Counting to 9 and 10. Numbers to 20: Counting to 20. Count objects, actions and sounds. Verbally count beyond 20, recognising the pattern of the counting system.	Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward. Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number. Count numbers to 100 in numerals; count in multiples of twos, five and tens.	Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.	Count in multiples of 6, 7, 9, 25 and 1000.	Count backwards through zero to include negative numbers.	Count forwards or backwards in steps of powers of 10 for any given number up to 100 000. Count forwards and backwards with positive and negative whole numbers, including through zero.	
Place Value: Represent	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.	Subitise- (recognising quantities without counting) up to 5. Link the number symbol (numeral) with its cardinal number value.	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.	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.	Identify, represent and estimate numbers using different representations. Read and write numbers up to 1000 in numerals and in words.	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.	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.	Read, write (order and compare) numbers to at least 10 000 000 and determine the value of each digit.



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Place Value: Use PV and compare	Compare quantities using language: 'more than', 'fewer than'. Understand the 'one more than/one less than' relationship between consecutive numbers. Explore the composition of numbers to 10.	Comparing groups: Comparing quantities of identical objects. Comparing quantities of non-identical objects. Comparing numbers up to 10. Have a deep understanding of numbers to 10, including the composition of each number.	Given a number identify one more or one less.	Recognise the place value of each digit in a two-digit number (tens, ones). Compare and order numbers from 0 up to 100: use <, > and = signs.	Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). Compare and order numbers up to 1000.	Find 1000 more or less than a given number. Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones) order and compare numbers beyond one.	(Read, write) order and compare numbers to at least 1 000 000 and determine the value of each digit.	(Read, write), order and compare numbers to 10 000 000 and determine the value of each digit.
	Solve real world mathematical problems with numbers up to 5.	Solve real world mathematical problems with numbers up to 10.		Use place value and number facts to solve problems.	Solve number and problems and practical problems involving these ideas.	Round any number to the nearest 10, 100 or 1000. Solve number and practical problems that involve all of the above and with increasingly large positive numbers.	Interpret negative numbers in context. Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000. Solve number problems and practical problems that involve all of the above.	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.



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Addition and Subtraction: Recall, represent, use		Sorting: sorting into groups	Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.	Estimate the answer to a calculation and use inverse operations to check answers.	Estimate the answer to a calculation and use inverse operations to check answers.	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.
		Change within 5: one more, one less.	Represent and use number bonds and related subtraction facts within 20.	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.			



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Addition and Subtraction: Calculations			Add and subtract one-digit and two-digit numbers to 20, including zero.	Add and subtract numbers using concrete objects, pictorial representations and mentally, including: a two-digit number and ones, a two-digit number and tens and two two-digit numbers.	Add and subtract numbers mentally including: a three-digit number and ones, a three-digit number and tens, a three-digit number and tens and a three-digit number and hundreds.	Add and subtract numbers up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.	Add and subtract numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).	Perform mental calculations, including with mixed operations and large numbers.
Addition and Subtraction: Solve Problems		Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly. Subitise. Link the number symbol (numeral) with its cardinal number value.	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and \square missing number problems such as $7 = \square - 9$.	Solve problems with addition and subtraction: Using concrete objects and pictorial representations, including those involving numbers, quantities and measures. Apply their increasing knowledge of mental and written methods.	Solve problems including missing number problems, using number facts, place value, and more complex addition and subtraction.	Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.	Solve addition and subtraction multi-step 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.	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.



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Multiplication Progression	Count in 2s and 5s	I can count forward and backwards in jumps of 2, 3 and 5 from 0 and in 10s from any number can remember and use multiplication and division facts for the 2, 5 and 10 times tables and recognise odd and even numbers. Count in 10s	I can recall and use multiplication and division facts for the 3, 4 and 8 times tables. I can count from 0 in multiples of 4, 8,	I can count in multiples of 6, 7, 9,	I can recall times tables facts up to 12×12		
Multiplication & Division: Recall, Represent, Use	Numerical patterns: Doubling, halving and sharing, odds and evens.	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	Recall and use multiplication and division facts for 3, 4 and 8 multiplication tables. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.	Recall and use multiplication and division facts for 6, 7 and 9 multiplication tables.	Recall and use multiplication and division facts for multiplication tables up to 12×12 . 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.	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).	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 and Division: Calculations			<p>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) 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.</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 one or two-digit number using a formal written method, including long multiplication for two-digit numbers.</p> <p>Multiply and divide numbers mentally drawing upon known facts.</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 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>Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.</p> <p>Perform mental calculations, including with mixed operations and large numbers.</p>
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Multiplication and Division: Solve Problems			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 multiplication and division, including scaling by simple fractions and problems involving simple rates.	Solve problems involving addition, subtraction, multiplication and division.
Multiplication and Division: Combined 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 and Write				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.	Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity.	Count up and down in tenths: recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers of quantities by 10. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.	Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$).	
Fractions: Compare				Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.	Recognise and show, using diagrams, equivalent fractions with small denominators. Compare and order unit fractions, and fractions with the same denominators.	Recognise and show, using diagrams, families of common equivalent fractions.	Compare and order fractions whose denominators are all multiples of the same number.	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. Compare and order fractions, including fractions > 1 .	



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Fractions: Calculations					<p>Write simple fractions e.g. $\frac{1}{2}$ of 6 = 3.</p> <p>Add and subtract fractions with the same denominator within one whole (e.g. $5/7 + 1/7 = 6/7$),</p> <p>Add and subtract fractions with the same denominator.</p> <p>Add and subtract fractions with the same denominator and multiples of the same number.</p> <p>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</p> <p>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</p>			
Fractions: Solve Problems					<p>Solve problems that involve all of the above.</p> <p>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.</p>			



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



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Decimals: Calculations and Problems				<p>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.</p>	<p>Solve problems involving numbers up to three decimal places.</p>	<p>Multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places.</p> <p>Multiply one-digit numbers with up to two decimal places by whole numbers.</p> <p>Use written division methods in cases where the answer has up to two decimal places.</p> <p>Solve problems which require answers to be rounded to specified degrees of accuracy.</p>
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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 as a decimal.</p> <p>Solve problems which require knowing percentage and decimal equivalents of $1/2$, $1/4$, $1/5$, $2/5$, $4/5$ 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. $3/8$).</p> <p>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</p>
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Ratio and Proportion							
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Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.

Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison.

Solve problems involving similar shapes where the scale factor is known or can be found.

Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.



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Algebra			Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$.	Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.	Solve problems, including missing number problems.			Use simple formulae. Generate and describe linear number sequences. Express missing number problems algebraically. Find pairs of numbers that satisfy number sentences involving two unknowns. Enumerate all possibilities of combinations of two variables.
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Measurements: Using Measures	Make comparisons between objects relating to size, length, weight and capacity.	Compare length, weight and capacity.	Compare, describe and solve practical problems for: lengths and heights [e.g. long/short, longer/shorter, tall/short, double/half] mass/weight [e.g. heavy/light, heavier than, lighter than] capacity and volume [e.g. full/empty, more than, less than, half, half full, quarter] time [e.g. quicker, slower, earlier, later] measure and begin to record the following: lengths and heights mass/weight capacity and volume time (hours, minutes, seconds).	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels. Compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ and $=$.	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).	Convert between different units of measure (e.g. kilometre to metre; hour to minute). Estimate, compare and calculate different measures.	Convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre). Understand and use equivalences between metric units and common imperial units such as inches, pounds and pints. Use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. 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. Convert between miles and kilometres.



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Measurement: Money			<p>Recognise and know the value of different denominations of coins and notes.</p>	<p>Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.</p> <p>Find different combinations of coins that equal the same amounts of money.</p> <p>Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.</p>	<p>Add and subtract amounts of money to give change, using both £ and p in practical contexts.</p>	<p>Estimate, compare and calculate different measures, including money in pounds and pence.</p>	<p>Use all four operations to solve problems involving measure (for example, money).</p>	
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Measurement: Time		<p>My day- Begin to describe a sequence of events, real or fictional, using words, such as 'first', 'then...'</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.</p> <p>Time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as 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 length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa.</p>
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Measurement: Perimeter, Area and Volume		<p>Exploring patterns: Making simple patterns, exploring more complex patterns.</p> <p>Compare length, weight and capacity.</p>			<p>Measure the perimeter of simple 2-D 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 (cm^2) and square metres (m^2) and estimate the area of irregular shapes (also included in measuring).</p> <p>Estimate volume (e.g. using 1 cm^3 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 (cm^3) and cubic metres (m^3), and extending to other units [e.g. mm^3 and km^3].</p>
Geometry: 2D Shapes	<p>Talk about and explore 2D (for example, circles, rectangles and triangles) using informal and mathematical language: 'sides', 'corners', 'straight', 'flat', 'round'.</p> <p>Select shapes appropriately: flat surfaces for a building, a triangular pattern for a roof, etc.</p> <p>Combine shapes to make new ones – an arch, a bigger triangle, etc.</p>	<p>Spatial awareness: 2D shapes.</p> <p>Select, rotate and manipulate shapes in order to develop spatial reasoning skills.</p> <p>Compose and decompose shapes so that children can recognise a shape can have other shapes within it, just as numbers can.</p>	<p>Recognise and name common 2-D shapes, including:</p> <p>2-D shapes [e.g. rectangles (including squares), circles and triangles].</p>	<p>Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.</p> <p>Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid].</p> <p>Compare and sort common 2-D shapes and everyday objects.</p>	<p>Draw 2-D 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 2-D 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 2-D shapes using given dimensions and angles.</p> <p>Compare and classify geometric shapes based on their properties and sizes.</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>Talk about and explore 3D shapes (for example cuboids) using informal and mathematical language: 'sides', 'corners', 'straight', 'flat', 'round'.</p> <p>Select shapes appropriately: flat surfaces for a building, a triangular pattern for a roof, etc.</p> <p>Combine shapes to make new ones – an arch, a bigger triangle, etc.</p>	<p>Spatial awareness: 3D Shapes</p> <p>Select, rotate and manipulate shapes in order to develop spatial reasoning skills</p> <p>Compose and decompose shapes so that children can recognise a shape can have other shapes within it, just as numbers can.</p>	<p>Recognise and name common 3-D shapes, including:</p> <p>3-D shapes [e.g. cuboids (including cubes), pyramids and spheres].</p>	<p>Recognise and name common 3-D shapes, including:</p> <p>3-D shapes [e.g. cuboids (including cubes), pyramids and spheres].</p>	<p>Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.</p>		<p>Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.</p>	<p>Recognise, describe and build simple 3-D shapes, including making nets.</p>
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 2-D shapes presented in different orientations.</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 (o)</p> <p>Identify: angles at a point and one whole turn (total $360o$), angles at a point on a straight line and $\frac{1}{2}$ a turn (total $180o$) and other multiples of $90o$.</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 Directions	Understand position through words alone – for example, “The bag is under the table,” – with no pointing.							
	Describe a familiar route.	Draw information from a simple map.	Describe position, direction and movement, including half, quarter and three-quarter turns.	Order and arrange combinations of mathematical objects in patterns and sequences.		Describe positions on a 2-D grid as coordinates in the first quadrant.	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.	Describe positions on the full coordinate grid (all four quadrants).
	Discuss routes and locations, using words like ‘in front of’ and ‘behind’.	Continue, copy and create repeating patterns.		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).		Describe movements between positions as translations of a given unit to the left/right and up/down.		Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
	Talk about and identify the patterns around them. For example, stripes on clothes, designs on rugs and wallpaper.					Plot specified points and draw sides to complete a given polygon.		
	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.							
Statistics: Present and Interpret	Experiment with their own symbols and marks, as well as numerals.			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				<p>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.</p> <p>Ask and answer questions about totalling and comparing categorical data.</p>	<p>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.</p>	<p>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</p>	<p>Solve comparison, sum and difference problems using information presented in a line graph.</p>	<p>Calculate and interpret the mean as an average.</p>
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