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**Mathematics Skills Progression**

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<b>Number and Place Value</b>	<p>have a deep understanding of number to 10, including the composition of each number</p> <p>subitise (recognise quantities without counting) up to 5</p> <p>verbally count beyond 20, recognising the pattern of the counting system</p>	<p>count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number</p> <p>count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens</p> <p>given a number, identify one</p>	<p>count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward</p> <p>recognise the place value of each digit in a two-digit number (tens, ones)</p> <p>identify, represent and estimate numbers using different representations,</p>	<p>count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number</p> <p>recognise the place value of each digit in a three-digit number (hundreds, tens, ones)</p> <p>compare and order numbers up to 1000</p> <p>identify, represent and</p>	<p>count in multiples of 6, 7, 9, 25 and 1000</p> <p>find 1000 more or less than a given number</p> <p>count backwards through zero to include negative numbers</p> <p>recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)</p>	<p>read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</p> <p>count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</p> <p>interpret negative numbers in context, count forwards and</p>	<p>read, write, order and compare numbers up to 10,000,000 and determine the value of each digit</p> <p>round any whole number to a required degree of accuracy</p> <p>use negative numbers in context, and calculate intervals across 0</p> <p>solve number and practical problems</p>

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<b>Number and Place Value</b>	compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity	more and one less	including the number line	estimate numbers using different representations	order and compare numbers beyond 1000	backwards with positive and negative whole numbers, including through zero	that involve all of the above
	explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally	identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least	compare and order numbers from 0 up to 100; use and = signs	read and write numbers up to 1000 in numerals and in words	identify, represent and estimate numbers using different representations	round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000	
		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	solve number problems and practical problems involving these ideas.	round any number to the nearest 10, 100 or 1000	solve number problems and practical problems that involve all of the above	
			use place value and number facts to solve problems.		solve number and practical problems that involve all of the above and with increasingly large positive numbers	read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	
					read Roman numerals to 100 (I to C) and know that over time, the numeral		

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<b>Number and Place Value</b>					system changed to include the concept of zero and place value.		
<b>Calculations: Addition and Subtraction</b>	<p>automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.</p>	<p>read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs</p> <p>represent and use number bonds and related subtraction facts within 20</p> <p>add and subtract one-digit and two-digit numbers to 20, including zero</p> <p>solve one-step problems that involve addition</p>	<p>solve problems with addition and subtraction:</p> <ul style="list-style-type: none"> <li>- using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> <li>- applying their increasing knowledge of mental and written methods</li> </ul> <p>recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</p>	<p>add and subtract numbers mentally, including:</p> <ul style="list-style-type: none"> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and hundreds</li> </ul> <p>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</p>	<p>add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</p> <p>estimate and use inverse operations to check answers to a calculation</p> <p>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</p>	<p>add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</p> <p>add and subtract numbers mentally with increasingly large numbers</p> <p>use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</p> <p>solve addition and subtraction</p>	<p>solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p>solve problems involving addition, subtraction, multiplication and division</p> <p>use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy</p>

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<p><b>Calculations: Addition and Subtraction</b></p>		<p>and subtraction, using concrete objects and pictorial representations, and missing number problems such as <math>7 = \square - 9</math>.</p>	<p>add and subtract numbers using concrete objects, pictorial representations, and mentally, including:</p> <ul style="list-style-type: none"> <li>- a two-digit number and ones</li> <li>- a two-digit number and tens</li> <li>- two two-digit numbers</li> <li>- adding three one-digit numbers</li> </ul> <p>show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot</p> <p>recognise and use the inverse</p>	<p>estimate the answer to a calculation and use inverse operations to check answers</p> <p>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction</p>		<p>multi-step problems in contexts, deciding which operations and methods to use and why.</p>	

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<b>Calculations: Addition and Subtraction</b>			relationship between addition and subtraction and use this to check calculations and solve missing number problems.				
<b>Calculations: Multiplication and Division</b>		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	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers  calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ )	recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables  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	recall multiplication and division facts for multiplication tables up to $12 \times 12$  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	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 (nonprime) numbers  establish whether a number up to	multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication  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

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<p><b>Calculations: Multiplication and Division</b></p>		<p>and equals (=) signs</p> <p>show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</p> <p>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</p>	<p>mental and progressing to formal written methods</p> <p>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.</p>	<p>and commutativity in mental calculations</p> <p>multiply two-digit and three-digit numbers by a one-digit number using formal written layout</p> <p>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</p>	<p>100 is prime and recall prime numbers up to 19</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>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</p>	<p>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> <p>identify common factors, common multiples and prime numbers</p> <p>use their knowledge of the order of operations to carry out calculations</p>
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Calculations: Multiplication and Division						remainders appropriately for the context	involving the 4 operations
						multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 recognise and use square numbers and cube numbers, and the notation for squared ( 2 ) and cubed ( 3 )	
						solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes	
						solve problems involving	

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<b>Calculations: Multiplication and Division</b>						<p>addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign</p> <p>solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</p>	
<b>Fractions, Decimals and Percentages: Fractions</b>		<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 quarter as one of</p>	<p>recognise, find, name and write fractions <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, set of objects or quantity</p> <p>write simple fractions for</p>	<p>count up and down in tenths; 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 show, using diagrams, families of common equivalent fractions</p> <p>count up and down in</p>	<p>compare and order fractions whose denominators are all multiples of the same number</p> <p>identify, name and write</p>	<p>use common factors to simplify fractions; use common multiples to express fractions in the same denomination</p>

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<p><b>Fractions, Decimals and Percentages: Fractions</b></p>	<p>four equal parts of an object, shape or quantity.</p>	<p>example, <math>\frac{2}{3}</math> of <math>\frac{1}{2}</math> = <math>\frac{1}{3}</math> and recognise the equivalence of <math>\frac{1}{2}</math> and <math>\frac{2}{4}</math>.</p>	<p>recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators</p> <p>recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators</p> <p>recognise and show, using diagrams, equivalent fractions with small denominators</p> <p>add and subtract fractions with the same</p>	<p>hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</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> <p>add and subtract fractions with the same denominator</p>	<p>equivalent fractions of a given fraction, represented visually, including tenths and hundredths</p> <p>recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number [for example, <math>5\frac{2}{4} = 5\frac{1}{2}</math>]</p> <p>add and subtract fractions with the same denominator and denominators that are multiples of the same number</p>	<p>compare and order fractions, including fractions <math>&gt; 1</math></p> <p>add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</p> <p>multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, <math>\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}</math>]</p> <p>divide proper fractions by whole numbers [for example, <math>\frac{1}{3} \div 2 = \frac{1}{6}</math>]</p> <p>associate a fraction with division and calculate decimal fraction equivalents [for</p>
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<b>Fractions, Decimals and Percentages: Fractions</b>				denominator within one whole [for example, $7 \frac{5}{6} + 7 \frac{1}{6} = 7 \frac{6}{6}$ ]  compare and order unit fractions, and fractions with the same denominators  solve problems that involve all of the above.		multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	example, 0.375] for a simple fraction $\frac{3}{8}$ [for example, $\frac{3}{8}$ ]
<b>Fractions, Decimals and Percentages: Decimals</b>					recognise and write decimal equivalents of any number of tenths or hundredths  recognise and write decimal equivalents to 4 $1, 2, 1, 4, 3$  find the effect of dividing a one- or two-digit	read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$ ]  recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places  multiply one-digit numbers with up to 2 decimal places by whole numbers

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<p><b>Fractions, Decimals and Percentages: Decimals</b></p>					<p>number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</p> <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>solve simple measure and money problems involving fractions and decimals 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> <p>solve problems involving number up to three decimal places</p>	<p>use written division methods in cases where the answer has up to 2 decimal places</p> <p>solve problems which require answers to be rounded to specified degrees of accuracy</p>
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<b>Fractions, Decimals and Percentages: Percentages</b>						<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 <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{1}{5}</math>, <math>\frac{2}{5}</math>, <math>\frac{3}{4}</math> and those fractions with a denominator of a multiple of 10 or 25.</p>	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
<b>Measurement: Measure</b>		compare, describe and	choose and use appropriate standard units to	measure, compare, add and subtract:	Convert between different units of measure [for	convert between different units of metric measure	solve problems involving the calculation and

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<p><b>Measurement: Measure</b></p>	<p>solve practical problems for: - lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] - mass/weight [for example, heavy/light, heavier than, lighter than] - capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] - time [for example, quicker, slower, earlier, later] recognise and know the value of different denominations of coins and notes</p>	<p>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>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</p>	<p>lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) add and subtract amounts of money to give change, using both £ and p in practical contexts</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</p>	<p>example, kilometre to metre; hour to minute] estimate, compare and calculate different measures, including money in pounds and pence Mathematics – key stages 1 and 2 28 Statutory requirements</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</p>	<p>(for example, 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 pintsolve problems involving converting between units of time</p> <p>use all four operations to solve problems involving</p>	<p>conversion of units of measure, using decimal notation up to 3 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 3 decimal places</p> <p>convert between miles and kilometres</p>
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<p><b>Measurement: Measure</b></p>	<p>sequence events in chronological order using language [for example, 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>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>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</p>	<p>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>months; weeks to days.</p>	<p>measure [for example, length, mass, volume, money] using decimal notation, including scaling.</p>	
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<b>Measurement: Measure</b>			hour and the number of hours in a day.				
<b>Measurement: Area, Perimeter and Volume</b>		measure and begin to record the following: - lengths and heights - mass/weight - capacity and volume - time (hours, minutes, seconds)	compare and order lengths, mass, volume/capacity and record the results using >, < and =	measure the perimeter of simple 2-D shapes	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres  find the area of rectilinear shapes by counting squares	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres  calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes	recognise that shapes with the same areas can have different perimeters and vice versa  recognise when it is possible to use formulae for area and volume of shapes  calculate the area of parallelograms and triangles  calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm <sup>3</sup> ) and cubic metres (m <sup>3</sup> ), and extending to other units [for

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<b>Measurement: Area, Perimeter and Volume</b>						estimate volume [for example, using 1 cm <sup>3</sup> blocks to build cuboids (including cubes)] and capacity [for example, using water]	example, mm <sup>3</sup> and km <sup>3</sup>
<b>Geometry: Properties of Shape</b>		recognise and name common 2-D and 3-D shapes, including: - 2-D shapes [for example, rectangles (including squares), circles and triangles] - 3-D shapes [for example, cuboids (including cubes), pyramids and spheres].	identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line  identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces  identify 2-D shapes on the surface of 3-D	draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them  recognise angles as a property of shape or a description of a turn  identify right angles, recognise that two right	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes  identify acute and obtuse angles and compare and order angles up to two right angles by size  identify lines of symmetry in 2-D	identify 3-D shapes, including cubes and other cuboids, from 2-D representations  know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles  draw given angles, and measure them in degrees (o )	draw 2-D shapes using given dimensions and angles  recognise, describe and build simple 3-D shapes, including making nets  compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons

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<p><b>Geometry: Properties of Shape</b></p>			<p>shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</p> <p>compare and sort common 2-D and 3-D shapes and everyday objects.</p>	<p>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>shapes presented in different orientations</p> <p>complete a simple symmetric figure with respect to a specific line of symmetry.</p>	<p>identify:</p> <ul style="list-style-type: none"> <li>- angles at a point and one whole turn (total 360o )</li> <li>-angles at a point on a straight line and 2 1 a turn (total 180o )</li> <li>-other multiples of 90o</li> </ul> <p>use the properties of rectangles to deduce related facts and find missing lengths and angles</p> <p>distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</p>	<p>illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</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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<b>Geometry: Position and Direction</b>		describe position, direction and movement, including whole, half, quarter and three-quarter turns.	order and arrange combinations of mathematical objects in patterns and sequences  use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise).		describe positions on a 2-D grid as coordinates in the first quadrant  describe movements between positions as translations of a given unit to the left/right and up/down  plot specified points and draw sides to complete a given polygon.	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 4 quadrants)  draw and translate simple shapes on the coordinate plane, and reflect them in the axes
<b>Statistics</b>			interpret and construct simple	interpret and present data	interpret and present discrete	solve comparison, sum	interpret and construct pie

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<b>Statistics</b>			<p>pictograms, tally charts, block diagrams and simple tables</p> <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>using bar charts, pictograms and tables</p> <p>solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.</p>	<p>and continuous data using appropriate graphical methods, including bar charts and time graphs.</p> <p>solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</p>	<p>and difference problems using information presented in a line graph</p> <p>complete, read and interpret information in tables, including timetables.</p>	<p>charts and line graphs and use these to solve problems</p> <p>calculate and interpret the mean as an average</p>
<b>Ratio and Proportion</b>							<p>solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts</p>

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Ratio and Proportion							<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 similar shapes where the scale factor is known or can be found</p> <p>solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</p>
	Algebra						use simple formulae

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Algebra							generate and describe linear number sequences
							express missing number problems algebraically
							find pairs of numbers that satisfy an equation with 2 unknowns
							enumerate possibilities of combinations of 2 variables

Belonging

Diversity

Active

Independence