DELAPRE

## Primary School

|  | Early Years | Key Stage 1 |  | Lower Key Stage 2 |  | Upper Key Stage 2 |  |
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| Strand | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  | - Count objects, actions and sounds. <br> - Count beyond ten. <br> ELG: <br> Verbally count beyond 20, recognising the pattern of the counting system. | - count to and across 100, forwards and backwards, beginning with 0 or 1 , or from any given number <br> - count numbers to 100 in numerals; count in multiples of twos, fives and tens | - count in steps of 2, 3, and 5 from 0 , and in tens from any number, forward or backward | - count from 0 in multiples of $4,8,50$ and 100 ; <br> - find 10 or 100 more or less than a given number | - count in multiples of 6 , $7,9,25$ and 1000 <br> - count backwards through zero to include negative numbers | - count forwards or backwards in steps of powers of 10 for any given number up to 1 000000 <br> - count forwards and backwards with positive and negative whole numbers, including through zero | - use negative numbers in context, and calculate intervals across zero |
|  | - subitise. <br> - Link the number symbol (numeral) with its cardinal number value. <br> ELG: <br> Subitise (recognise quantities without counting) up to 5. | - identify and represent numbers using objects and pictorial representations including the number line <br> - read and write numbers to 100 in numerals; count in multiples of twos, fives and tens <br> - read and write numbers from 1 to 20 in numerals and words. | - identify, represent and estimate numbers using different representations, including the number line <br> - read and write numbers to at least 100 in numerals and in words | -identify, represent and estimate numbers using different representations <br> - read and write numbers up to 1000 in numerals and in words | - identify, represent and estimate numbers using different representations <br> - 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 1000000 and determine the value of each digit (appears also in Comparing Numbers) <br> - read Roman numerals to 1000 (M) and recognise years written in Roman numerals. | - read, write, order and compare numbers up to 10000000 and determine the value of each digit |

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## Mathematics Progression Map

|  | - Compare numbers. <br> - Understand the 'one more than/one less than' relationship between consecutive numbers. <br> - Explore the composition of numbers up to 10. <br> ELG: <br> Compare quantities up to10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity. <br> ELG: <br> Have a deep understanding of numbers to 10, including the composition of each number. | - given a number, identify one more and one less <br> - use the language of: equal to, more than, less than (fewer), most, least | - recognise the place value of each digit in a two-digit number (tens, ones) <br> - 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) | - recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) | - read, write, order and compare numbers to at least 1000000 and determine the value of each digit (appears also in Representing) | - read, write, order and compare numbers up to 10000000 and determine the value of each digit (appears also in Representing) |
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## Mathematics Progression Map

| $\begin{aligned} & \text { 气 } \\ & \text { U } \\ & \hline 0 \\ & \text { 은 } \end{aligned}$ | - Solve real world mathematical problems with numbers up to 5. |
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|  | - Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...' |


| - use place value and number facts to solve problems | - solve number problems and practical problems involving these ideas. | - round any number to the nearest 10, 100 or 1000 <br> - solve number and practical problems that involve all of the above and with increasingly large positive numbers | - round any number up to 1000000 to the nearest 10, 100, 1 000, 10000 and 100000 <br> - solve number problems and practical problems that involve all of the above | - round any whole number to a required degree of accuracy <br> - solve number and practical problems that involve all of the above |
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Mathematics Progression Map

|  | - Subitise. <br> - Explore the composition of numbers to 10. <br> - Automatically recall number bonds 0-5 and some to 10 . <br> ELG: <br> 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. <br> ELG: <br> Have a deep understanding of numbers to 10, including the | - represent and use number bonds and related subtraction facts within 20 <br> - read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Written Methods) | - recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 <br> - show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot <br> - recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. | - estimate the answer to a calculation and use inverse operations to check answers | - estimate and use inverse operations to check answers to a calculation | - use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy <br> - add and subtract numbers mentally with increasingly large numbers | - use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy. <br> - perform mental calculations, including with mixed operations and large numbers |
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|  | composition of each number. <br> ELG: <br> Subitise (recognise quantities without counting) up to 5. |  |  |  |  |  |  |
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|  | - See above |  | - add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <br> - a two-digit number and ones <br> - a two-digit number and tens <br> - two two-digit numbers <br> - adding three onedigit numbers | - add and subtract numbers mentally, including: <br> - a three-digit number and ones <br> - a three-digit number and tens <br> - a three-digit number and hundreds <br> - add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction | - add and subtract numbers with up to 4 digits using the formal written methods of column addition and subtraction where appropriate | - add and subtract whole numbers with more than 4 digits, including using formal written methods (column addition and subtraction) | - use their knowledge of the order of operations to carry out calculations involving the four operations |

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## Mathematics Progression Map

 represent patterns within numbers up to 10, including evens and odds, double facts and how quantitiescan be distributed evenly.

| - solve one-step problems |
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| that involve addition and |
| subtraction, using |
| concrete objects and |
| pictorial |
| representations, and |
| missing number |
| problems such as $7=*_{-}$ |
| 9 |$|$

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
- solve problems, $\quad \mid \bullet$ 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 addition and subtraction multi-step problems in contexts, deciding which
operations and methods to use and why


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## Mathematics Progression Map

|  | - Explore the composition of numbers to 10. <br> ELG: <br> Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly. <br> ELG: <br> 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. |  | - recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers <br> - 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 the 3, 4 and 8 multiplication tables | - recall multiplication and division facts for multiplication tables up to $12 \times 12$ <br> - 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 <br> - 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. <br> - know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers <br> - establish whether a number up to 100 is prime and recall prime numbers up to 19 <br> - recognise and use square numbers and cube numbers, and the notation for squared ( $x^{2}$ ) and cubed ( $x^{3}$ ) | - identify common factors, common multiples and prime numbers <br> - use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy |
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## Mathematics Progression Map

|  |  |  | - calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals (=) signs | - 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) | - multiply two-digit and three-digit numbers by a one-digit number using formal written layout | - multiply numbers up to 4 digits by a one- or twodigit number using a formal written method, including long multiplication for twodigit numbers <br> - multiply and divide numbers mentally drawing upon known facts <br> - 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 <br> - multiply and divide whole numbers and those involving decimals by 10,100 and 1000 | - multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication <br> - divide numbers up to 4digits 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 twodigit 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 <br> - perform mental calculations, including with mixed operations and large numbers |
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Mathematics Progression Map

|  | ELG: <br> Explore and represent patterns within numbers up to 10 , including evens and odds, double facts and how quantities can be distributed evenly. | - 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 <br> - solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates <br> - solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign | - solve problems involving addition, subtraction, multiplication and division |
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## Mathematics Progression Map

| Fractions -Recognise and Write |  | - recognise, find and name a half as one of two equal parts of an object, shape or quantity <br> - 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 or quantities by 10. <br> - recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators <br> - recognise and use fractions as numbers: unit fractions and nonunit fractions with small denominators | - count up and down in hundredths <br> - 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 <br> - 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. 2/5 $+4 / 5=6 / 5=11 / 5$ ) |  |
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|  |  |  | - recognise the equivalence of $2 / 4$ and $1 / 2$. | - recognise and show, using diagrams, families of common equivalent fractions <br> - compare and order unit fractions, and fractions with the same denominators | - recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten | - 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 <br> - compare and order fractions, including fractions >1 |

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Mathematics Progression Map

|  |  |  | - write simple fractions e.g. $1 / 2$ of $6=3$ | - add and subtract fractions with the same denominator within one whole (e.g. $5 / 7+1 / 7=$ 6/7) | - add and subtract fractions with the same denominator | - add and subtract fractions with the same denominator and multiples of the same number <br> - 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 <br> - multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $1 / 4 \times$ $1 / 2=1 / 8$ ) <br> - divide proper fractions by whole numbers (e.g. $1 / 3 \div 2=1 / 6$ ) |
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|  |  |  |  | - 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 |  |  |
|  |  |  |  |  | - recognise and write decimal equivalents of any number of tenths or hundredths <br> - recognise and write decimal equivalents to $1 / 4 ; 1 / 2 ; 3 / 4$ | - read and write decimal numbers as fractions (e.g. $0.71=71 / 100$ ) <br> - 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 |

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Mathematics Progression Map

|  |  |  |  |  | - round decimals with one decimal place to the nearest whole number <br> - 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 <br> - 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 and divide numbers by 10,100 and 1000 where the answers are up to three decimal places <br> - multiply one-digit numbers with up to two decimal places by whole numbers <br> - use written division methods in cases where the answer has up to two decimal places <br> - solve problems which require answers to be rounded to specified degrees of accuracy |

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|  |  |  |  |  | - solve simple measure and money problems involving fractions and decimals to two decimal places. | $\|$- recognise the per cent <br> symbol (\%) and <br> understand that per cent <br> relates to "number of <br> parts per hundre", and <br> write percentages as a <br> fraction with <br> denominator 100 as a <br> decimal fraction <br> - solve problems which <br> require knowing <br> percentage and decimal <br> equivalents of $1 / 2,1 / 4$, <br> $1 / 5,2 / 5,4 / 5$ and those <br> with a denominator of a <br> multiple of 10 or 25 . | associate a fraction with <br> division and calculate <br> decimal fration <br> equival ents e.g.g.0.375) <br> for a simple fraction (e.g. <br> 3/8) <br> -recall and use <br> equivalences between <br> simple fractions, <br> deeinals and <br> percentages, including in <br> different contexts. |
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Mathematics Progression Map

|  |  |  |  |  |  |  | - solve problems involving <br> the relative sizes of two <br> quantities where missing <br> values can be found by <br> using integer <br> multiplication and <br> division facts <br> -solve problems involving <br> the calculation of <br> percentages [for <br> example, of measures, <br> and such as $15 \%$ of 360$]$ <br> and the use of <br> percentages for <br> comparison <br> - solve problems involving <br> similar shapes where the <br> scale factor is known or <br> can be found <br> - solve problems involving <br> unequal sharing and <br> grouping using <br> knowledge of fractions <br> and multiples. |
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## Mathematics Progression Map

| - 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, using number facts, place value, and more complex addition and subtraction. |  |  | - use simple formulae <br> - generate and describe linear number sequences <br> - express missing number problems algebraically <br> - find pairs of numbers that satisfy number sentences involving two unknowns <br> - enumerate all possibilities of combinations of two variables |
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## Mathematics Progression Map

| Measurement - Using Measures | -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] | - choose and use appropriate standard units to estimate and measure length/height in any direction ( $\mathrm{m} / \mathrm{cm}$ ); mass (kg/g); temperature ( ${ }^{\circ} \mathrm{C}$ ); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels <br> - compare and order lengths, mass, volume/capacity and record the results using $>,<$ and $=$ | - measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass (kg/g); volume/capacity ( $/ / \mathrm{ml}$ ) | - convert between different units of measure (e.g. kilometre to metre; hour to minute) <br> - estimate, compare and calculate different measures, including money in pounds and pence | - convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) <br> - understand and use equivalences between metric units and common imperial units such as inches, pounds and pints <br> - 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 <br> - 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 <br> - convert between miles and kilometres |
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## Mathematics Progression Map

|  |  | - 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 <br> - find different combinations of coins that equal the same amounts of money <br> - 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 f 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 measure (e.g. length, mass, volume, money) using decimal notation including scaling. |
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## Mathematics Progression Map



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Mathematics Progression Map

|  |  |  |  | - measure the perimeter of simple 2-D shapes | - measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres <br> - find the area of rectilinear shapes by counting squares | - measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres <br> - calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm2) and square metres ( m 2 ) and estimate the area of irregular shapes <br> - estimate volume (e.g. using 1 cm 3 blocks to build cubes and cuboids) and capacity | - recognise that shapes with the same areas can have different perimeters and vice versa <br> - recognise when it is possible to use formulae for area and volume of shapes <br> - calculate the area of parallelograms and triangles <br> - 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 [e.g. mm3 and km3]. |
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## Primary School

Mathematics Progression Map

|  | - Select, rotate and manipulate shapes in order to develop spatial reasoning skills | recognise and name common 2-D and 3-D shapes, including: <br> -2-D shapes [e.g. rectangles (including squares), circles and triangles] <br> -3-D shapes [e.g. 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 <br> - identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces <br> -identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] |  | - identify lines of symmetry in 2-D shapes presented in different orientations | - identify 3-D shapes, including cubes and other cuboids, from 2-D representations | - recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing) <br> - illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius |
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|  | - Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can. <br> - Select, rotate and manipulate shapes in order to develop spatial reasoning skills. |  |  | -draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them | - complete a simple symmetric figure with respect to a specific line of symmetry | -draw given angles, and measure them in degrees (o) | -draw 2-D shapes using given dimensions and angles <br> - recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying Shapes and Their Properties) |

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Mathematics Progression Map

|  |  |  | - compare and sort common 2-D and 3-D shapes and everyday objects |  | - compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes | - use the properties of rectangles to deduce related facts and find missing lengths and angles <br> - distinguish between regular and irregular polygons based on reasoning about equal sides and angles | - 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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|  |  |  |  | - recognise angles as a property of shape or a description of a turn <br> - 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 <br> - identify horizontal and vertical lines and pairs of perpendicular and parallel lines | - identify acute and obtuse angles and compare and order angles up to two right angles by size | - know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles <br> -identify: <br> *angles at a point and one whole turn (total $360^{\circ}$ ) <br> *angles at a point on a straight line and $1 / 2$ a turn (total $180^{\circ}$ ) <br> *other multiples of $90^{\circ}$ | - recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles |

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## Mathematics Progression Map

|  | - Draw information from a simple map. <br> Pattern: <br> - Continue, copy and create repeating patterns. | -describe position, direction and movement, including half, quarter and threequarter turns. | - 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) <br> Pattern: <br> - order and arrange combinations of mathematical objects in patterns and sequences |  | - describe positions on a 2-D grid as coordinates in the first quadrant <br> - describe movements between positions as translations of a given unit to the left/right and up/down <br> - 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 four quadrants) <br> - draw and translate simple shapes on the coordinate plane, and reflect them in the axes. |
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|  |  |  | - interpret and construct simple pictograms, tally charts, block diagrams and simple tables <br> - ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity <br> - ask and answer questions about totalling and comparing categorical data | - 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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## Mathematics Progression Map



