Mathematics Progression EYFS to Year 6

|  | EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
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| Place value: counting | - reliably count up to 20 objects moving each as they are counted and also take amounts up to 20 from a greater set. <br> - count up to 20 objects (including different sized objects), moving each as they are counted <br> - match the set to the numeral <br> - count reliably with numbers from 1 to 20 Number ELG <br> - count up to 20 pictures without marking using a strategy such as starting at one side, ensuring that all pictures are included and that none have been counted more than once <br> - understand that 'teen' numbers are a group of 10 plus another number <br> - make a given multiple of ten using Numicon, Tens Frames, Number Rods or Tens Towers <br> - count in multiples of 10 and identify the number in the set | - 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, fives and tens | - count in steps of 2,3 , and 5 from 0 , and in tens from any number, forward and backward | - 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 <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 |  |


| Place Value: represent | - Subitise (recognise quantities without counting) up to 5 . <br> Number ELG <br> - represent my simple mathematical ideas and calculations using pictures symbols and numerals and explain it. <br> - represent simple mathematical ideas and calculations using objects and pictures <br> - confidently identify and name the numeral that is after, before, between numerals to 20 . <br> - order a random set of numerals within the range 0 to 20 <br> - write the numerals 0 to 20 for a given purpose <br> - order a random set of pictorial number representations within the range 0 - 20 <br> - begin to read and write ordinal numbers (labelling a picture or results of a race) | - identify and represent numbers using objects and pictorial representations - read and write numbers to 100 in numerals <br> - 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 <br> - 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 (Ito C) and know that over time, the numeral system changed to include the concept of zero and place value | - read, write, (order <br> and compare) <br> numbers to at <br> least 1000000 <br> and determine the <br> value of each digit <br> - read Roman <br> numerals to 1000 (M) <br> and recognise <br> years written in <br> Roman numerals | - read, write, (order and compare) numbers up to 10 000000 and determine the value of each digit |
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| Place value: use PV and compare | - Have a deep understanding of number to 10 , including the composition of each number Number ELG <br> - identify the difference in number between one set and another <br> - compare two groups of different sized objects (where there are more of the smaller object) <br> - change two unequal groups into two equal groups <br> - compare two quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity NP ELG | - given a number, identify one more and 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) <br> - compare and order numbers up to 1000 | - find 1000 more or less than a given number <br> - recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) <br> - order and compare numbers beyond 1000 | - (read, write) order and compare numbers to at least 1000000 and determine the value of each digit | - (read, write), order and compare numbers up to 10000000 and determine the value of each digit |
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| Place value: problems \& rounding |  |  | - 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 | - interpret negative numbers in context <br> - round any number up to 1 000000 to the nearest 10, 100, 1000, 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> - use negative <br> numbers in <br> context, and <br> calculate intervals <br> across zero <br> - solve number and practical problems that involve all of the above |



|  | small number using mental calculation <br> - add two single digit numbers totalling up to 10 using practical equipment <br> - understand the concept of addition by practically combining sets of objects to find out how many using part-part-whole <br> - retell an addition story using first, then and now <br> - draw pictures and record number sentences to represent the story <br> - automatically recall number bonds up to 5 and some number bonds to 10 , including double facts Number ELG |  |  |  |  |  |  |
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| Addition \& subtraction: problems | - solve simple problems using numbers to 20 (practically explore different ways using my own ideas) | - solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=$ 回- 9 | - solve problems with addition and subtraction: <br> $>$ using concrete objects and pictorial <br> representations, including those involving numbers, quantities and measures <br> applying 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 twostep problems in contexts, deciding which operations and methods to use and why | - solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why <br> - 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 multistep problems in contexts, deciding which operations and methods to use and why |
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| Multiplication \& division: recall, represent, use | - independently find two sets of objects that have the same number <br> - independently make another set that is the same <br> - independently combine two sets of the same number and count to find the total <br> - understand that to double, the same number needs to be added to itself <br> - double the numbers 1-10+ <br> - explore and represent patterns within numbers up to 10 , including evens and odds, double facts and how quantities can be distributed equally. NP ELG |  | - 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 <br> 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 - 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 (non-prime) 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 (2) and cubed (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, an appropriate degree of accuracy |


| multiplication \& division: calculation |  |  | - calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( x ), 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 | - 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 two-digit 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 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context <br> - 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 <br> - perform mental calculations, including with mixed operations and large numbers |
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| Multiplication \& 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 <br> - solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates | - solve problems involving addition, subtraction, multiplication and division |
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| Multiplication \& 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 |


| Fractions: recognise \& 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 - 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 <br> - 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, $2 / 5+4 / 5$ $=6 / 5=11 / 5$ |  |
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| Fractions: compare |  |  | - Recognise the equivalence of 2 /4 and 1/2 | - recognise and show, using diagrams, equivalent fractions with small denominators <br> - 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 |


| Fractions: calculations |  |  | - write simple fractions for example, $1 / 2$ of $6=3$ | - add and subtract fractions with the same denominator within one whole [for example, 5/7 $+1 / 7=6 / 7]$ | - add and subtract fractions with the same denominator | - add and subtract fractions with the same denominator and denominators that are multiples of the same number <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 [for example,1/4 $\times 1 / 2=1 / 8$ ] <br> - divide proper fractions by whole numbers [for example 1/3 $\div 2=1 / 6]$ |
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| Fractions: solve problems |  |  |  | - solve problems that involve all of the above | - solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number |  |  |


| Decimals: recognise, write, compare |  |  |  |  | - recognise and write decimal equivalents of any number of tenths or hundredths - recognise and write decimal equivalents to $1 / 4,1 / 2,3 / 4$ <br> - 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 | - read and write decimal numbers as fractions [for example, $0.71=$ 71/100] <br> - recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents <br> - round decimals with two decimal places to the nearest whole number and to one decimal place - read, write, order and compare numbers with up to three decimal place | - identify the value of each digit in numbers given to three decimal places |
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| Fractions, decimals and percentages |  |  |  |  | - solve simple measure and money problems involving fractions and decimals to two decimal places | - recognise the percent 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 <br> - solve problems which require knowing percentage and decimal equivalents of $1 / 2,1 / 4,1 / 5,2 / 5$ , $4 / 5$ and those fractions with a denominator of a multiple of 10 or 25 | - associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3 8] <br> - recall and use equivalences between simple fractions, decimals and percentages, including in different contexts |


| Ratio and proportion |  |  |  |  |  |  | - solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts <br> - solve problems involving the calculation/use of percentages for comparison <br> - solve problems involving similar shapes where the scale factor is known or can be found <br> - solve problems involving unequal sharing and grouping using knowledge of fractions and multiples |
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| Algebra <br> Note - although formal algebraic <br> notation is not introduced until Y6, algebraic thinking starts much earlier as exemplified by the 'missing number' objectives from Y1/2/3 |  | - solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=$ - 9 | - recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems | - solve problems, including missing number problems |  |  | - use simple formulae <br> - generate and describe linear number sequences <br> - express missing number problems algebraically <br> - find pairs of numbers that satisfy an equation with two unknowns - enumerate possibilities of combinations of two variables |


| Using measures | - make direct comparisons and compare and order the weight of $3+$ items from heaviest to lightest / lightest to heaviest <br> - understand that if the balance scale is level, the objects being compared are equal in weight <br> - use mathematical language associated with weight (heavier, lighter etc.) <br> - use non-standard units (which are uniform, e.g. unifix) to measure the weight of objects <br> - make direct comparisons and compare and order the length of $3+$ items from longest / tallest to shortest to narrowest to widest etc. <br> - use mathematical language associated with length (taller, shorter etc.) <br> - use non-standard units (which are uniform, e.g. unifix) to measure the length of objects | - compare, describe and solve practical problems for: <br> $>$ lengths and heights <br> > mass/weight <br> > capacity and volume <br> $>$ time <br> - measure and begin to record the following: <br> $>$ lengths and heights <br> > mass/weight <br> $>$ 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 ( ${ }^{\circ} \mathrm{C}$ ); 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 ( $1 / \mathrm{ml}$ ) | - Convert between different units of measure [for example, kilometre to metre; hour to minute] <br> - estimate, compare and calculate different measures | - convert between different units of metric measure <br> - understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints <br> - use all four <br> operations to solve problems involving measure <br> [for example, 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 3 d.p. 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 3 d.p. <br> - convert between miles and kilometres |
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| Money |  | - recognise and know the value of different denominations of coins and notes | - recognise and use symbols for pounds ( $£$ ) and pence (p); combine amounts to make a particular value <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 $£$ 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 [for example, money] |  |
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| Time | - understand and correctly use language - before, after, yesterday, today, tomorrow <br> - sequence four or more familiar events and describe the sequence <br> - say the names of the days of the week in order | - sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] - recognise and use language relating to dates, including days of the week, weeks, months and years <br> - tell the time to the hour and half past the hour and draw the hands on a clock face to show these time | - compare and sequence intervals of time <br> - 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 - know the number of minutes in an hour and the number of hours in a day | - tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12hour and 24-hour clocks <br> - estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight <br> - know the number of seconds in a minute and the number of days in each month, year and leap year <br> - compare durations of events [for example to calculate the time taken by particular events or tasks] | - read, write and convert time between analogue and digital 12and 24 -hour clocks <br> - solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days | - solve problems involving converting between units of time | - use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit, and vice versa Note - In the WR maths schemes, time conversions are covered in Y5; the Y6 block concentrates on metric units. |
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| Perimeter, area, volume | - use the terms 'nearly full' and 'nearly empty' to describe volume <br> - order a set of identical containers from least full to most full <br> - compare the volumes of two of the same containers that hold different amounts and use the terms more or less |  |  | - 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 <br> calculate the perimeter of composite rectilinear shapes in centimetres and metres <br> - calculate and compare the area of rectangles (including squares) and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes - estimate volume [for example, using blocks to build cuboids] and capacity [for example, using water] | - recognise that shapes with the same areas can have different perimeters and vice versa <br> - recognise when it <br> is possible to use formulae for area and volume of shapes <br> - calculate the area <br> 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 |
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| 2-D shapes | - begin learning to recognise and name 2-D shapes, including irregular shapes, and quadrilaterals such as rhombus, kite and parallelogram <br> - describe 2-D shapes using mathematical language <br> - explain similarities and differences between shapes <br> - create pictures using a range of 2D shapes and explain choices <br> - identify how shapes can be placed together to create other shapes <br> - recognise, describe, copy, continue, make and correct shape patterns <br> - make more detailed pictures that include one reflective line of symmetry | - recognise and name common 2 D shapes [for example, rectangles (including squares), circles and triangles] | - identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line <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] <br> - compare and sort common 2-D shapes and everyday objects | - draw 2-D shapes | - compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes <br> - identify lines of symmetry in 2-D shapes presented in different orientations | - distinguish between regular and irregular polygons based on reasoning about equal sides and angles. <br> - use the properties of rectangles to deduce related facts and find missing lengths and angle | - draw 2-D shapes using given dimensions and angles <br> - compare and classify geometric shapes based on their properties and sizes <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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| 3-D shapes | - begin learning to recognise and name 3-D shapes, including different types of pyramid and prisms <br> - describe 3-D shapes using mathematical language <br> - count faces and vertices <br> - explain similarities and differences between shapes | - recognise and name common $3-$ D shapes [for example, cuboids (including cubes), pyramids and spheres] | - recognise and name common 3D shapes [for example, cuboids (including cubes), pyramids and spheres] <br> - compare and sort common 3-D shapes and everyday objects | - make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them |  | - identify 3-D shapes, including cubes and other cuboids, from 2-D representations | - recognise, describe and build simple 3-D shapes, including making nets |
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| Angles and lines |  |  |  | - 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 <br> - identify lines of symmetry in 2-D shapes presented in different orientations <br> - complete a simple symmetric figure with respect to a specific line of symmetry | - know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles <br> - draw given <br> angles, and measure them in degrees <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 <br> 2 <br> a turn (total <br> $180^{\circ}$ ) <br> other multiples of $90^{\circ}$ | - find unknown angles in any triangles, quadrilaterals, and regular polygons <br> - recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles |


| Position and direction |  | - describe position, direction and movement, including whole, half, quarter and three-quarter turns | - order and arrange combinations of mathematical objects in patterns and sequences <br> - 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 positions on a 2-D grid as coordinates in the first quadrant <br> - describe <br> movements <br> between positions <br> as translations of <br> a given unit to the <br> left/right and <br> up/down <br> - plot specified points and draw sides to complete <br> 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 <br> on the full <br> coordinate grid <br> (all four <br> quadrants) <br> - draw and <br> translate simple <br> shapes on the coordinate plane, and reflect them in the axe |
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| Present and interpret data |  |  | - 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 |
| Solve statistical problems |  |  | - 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 | - 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 | - solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs | - solve comparison, sum and difference problems using information presented in a line graph | - calculate and interpret the mean as an average |

