## PLACE VALUE - COUNT

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - 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 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 $1000 \cdot$ count backwards through zero to include negative numbers | - Count forwards or backwards in steps of powers of 10 for any given number up to 1000 000 <br> - Count forwards and backwards with positive and negative whole numbers, including through zero |  |

## PLACE VALUE - REPRESENT

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 |
| :--- | :--- | :--- | :--- | :--- | :--- |


| PLACE VALUE - USE AND COMPARE |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| - Given a number, identify one more and one less | - 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) - 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 |

## PLACE VALUE - PROBLEMS/ROUNDING

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | - 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 1000000 to the nearest $10,100,1000,10$ 000 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 numbers in context, and calculate intervals across zero <br> - Solve number and practical problems that involve all of the above |


| ADDITION AND SUBTRACTION: CALCULATIONS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| - add and subtract onedigit and twodigit numbers to 20 , including zero | - 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 > adding three onedigit number | - 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 columnar addition and subtraction where appropriate | - add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) <br> - add and subtract numbers mentally with increasingly large numbers | - perform mental calculations, including with mixed operations and large numbers • use their knowledge of the order of operations to carry out calculations involving the four operations |

## ADDITION AND SUBTRACTION: PROBLEMS

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=\square \square-9$ | - solve problems with addition and subtraction: <br> $>$ using concrete objects and pictorial representations, including those involving numbers, quantities and measures > 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 |


| MULTIPLICATION AND DIVISION: RECALL/USE |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
|  | - 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 - 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 and cubed | - 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 AND DIVISION: CALCULATIONS

| YEAR 1 | YEAR 2 | YEAR 3 |
| :---: | :---: | :---: |
|  | - 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 |

## YEAR 4 <br> - multiply two-digit and three-digit numbers by a

 one-digit number using formal written layout
## YEAR 5

- multiply numbers up to 4 digits by a one- or twodigit number using a formal written method, including long multiplication for twodigit numbers
- multiply and divide numbers mentally


## YEAR 6

- 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

|  |  | mental and progressing to formal written methods |  | 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 | 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 |
| :---: | :---: | :---: | :---: | :---: | :---: |

## MULTIPLICATION AND DIVISION: PROBLEMS

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - 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 mobjects | - 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 mobjects | - 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. |


| MULTIPLICATION AND DIVISION: COMBINED |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
|  |  |  |  | - 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 AND WRITE

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - 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 onedigit numbers or quantities by 10 <br> - recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators <br> - recognise and use <br> 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, $2 / 5+4 / 5=$ $6 / 5=11 / 5$ |  |


| FRACTIONS: COMPARE |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
|  | - Recognise the equivalence of $2 / 4$ and $1 / 2$ | - 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 $>1$ |

## FRACTIONS: CALCULATIONS

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | - 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 $1 / 3 \div 2=16$ ] |


| FRACTIONS: SOLVE PROBLEMS | YEAR 4 | YEAR 5 |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| YEAR 1 | YEAR 2 | YEAR 3 | - solve problems that <br> involve all of the above | • solve problems <br> involving increasingly <br> harder fractions to <br> calculate quantities, and <br> fractions to divide <br> quantities, including non- <br> unit fractions where the <br> answer is a whole number |  |
|  |  |  |  |  |  |

## DECIMALS: RECOGNISE, WRITE AND COMPARE

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | - 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 <br> - round decimals with one decimal place to the nearest whole number - compare numbers with the same number of decimal places up to two decimal places | - 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 places | - identify the value of each digit in numbers given to three decimal places |


| FRACTIONS, DECIMALS AND PERCENTAGES |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
|  |  |  | - solve simple measure and money problems involving fractions and decimals to two decimal places | - 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 <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] - recall and use equivalences between simple fractions, decimals and percentages, including in different contexts |

## RATIO AND PROPORTION

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 |
| :--- | :--- | :--- | :--- | :--- | | YEAR 6 |
| :--- |


|  |  |  | percentages for <br> comparison <br> • solve problems <br> involving similar shapes <br> where the scale factor is <br> known or can be found <br> esolve problems <br> involving unequal sharing <br> and grouping using <br> knowledge of fractions <br> and multiples |
| :--- | :--- | :--- | :--- | :--- |

ALGEBRA - although formal algebraic notation is not introduced until Y6, algebraic thinking starts much earlier as exemplified by the 'missing number' objectives from Y1/2/3

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - 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 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 <br> - enumerate possibilities of combinations of two variables |

## MEASUREMENT - USING MEASURES

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - compare, describe and solve practical problems for: <br> $>$ lengths and heights <br> > mass/weight <br> $>$ capacity and volume <br> $\Rightarrow$ time <br> - measure and begin to record the following: <br> $>$ lengths and heights <br> $>$ mass/weight <br> $>$ capacity and volume <br> $>$ time (hours, minutes, seconds) | - choose and use appropriate standard units to estimate and measure length/height in any direction ( $\mathrm{m} / \mathrm{cm}$ ); mass (kg/g); temperature $\left({ }^{\circ} \mathrm{C}\right)$; 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 ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity (l/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 operations to solve problems involving measure [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 <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 3 d.p. <br> - convert between miles and kilometres |

## MEASUREMENT - MONEY

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $\bullet$ recognise and know the <br> value of different <br> denominations of coins <br> and notes | - recognise and use <br> symbols for pounds (£) <br> and pence (p); combine <br> amounts to make a <br> particular value <br> $\bullet$ find different <br> combinations of coins | $\bullet$ add and subtract <br> amounts of money to give <br> change, using both $£$ and <br> pin practical contexts | $\bullet$ estimate, compare and <br> calculate different <br> measures, including <br> money in pounds and <br> pence | • use all four operations <br> to solve problems <br> involving measure [for <br> example, money] |


|  | that equal the same <br> amounts of money <br> $\bullet$ solve simple problems <br> in a practical context <br> involving addition and <br> subtraction of money of <br> the same unit, including <br> giving change |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |

## MEASUREMENT - TIME

## YEAR 1

 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
- tell the time to the hour and half past the hour and draw the hands on a clock face to show these times


## YEAR 2

- compare and sequence intervals of time
- 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


## YEAR 3

- tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12 -hour and 24 -hour clocks
- 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
- know the number of seconds in a minute and the number of days in each month, year and leap year
- compare durations of events [for example to calculate the time taken


## YEAR 4

- read, write and convert time between analogue and digital 12 - and 24 -


## hour clocks

- solve problems
involving converting from hours to minutes;
minutes to seconds; years to months; weeks to days


## YEAR 5

- solve problems involving converting between units of time


## YEAR 6

- 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

|  |  | by particular events or <br> tasks] |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |

## MEASUREMENT - PERIMETER, AREA AND VOLUME

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | - 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 rectangles (including squares) and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes <br> - 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 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 |


| GEOMETRY - 2-D SHAPES |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| - 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 - 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 angles | - 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 |

## GEOMETRY - 3-D SHAPES

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres] | - recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres] - 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 |


| GEOMETRY - ANGLES AND LINES |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
|  |  | - recognise angles as a property of shape or a description of a turn - 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 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 $1 / 2$ a turn (total $\left.180^{\circ}\right)>$ 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 |

## GEOMETRY - POSITION AND DIRECTION

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - 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 |  | - 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) - draw and translate simple shapes on the coordinate plane, and reflect them in the axes |


|  | angles for quarter, half <br> and three-quarter turns <br> (clockwise and anti- <br> clockwise) |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

## STATISTICS - PRESENT AND INTERPRET DATA

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | $\bullet$ interpret and construct <br> simple pictograms, tally <br> charts, block diagrams <br> and simple tables | $\bullet$ interpret and present <br> data using bar charts, <br> pictograms and tables | $\bullet$ interpret and present <br> discrete and continuous <br> data using appropriate <br> graphical methods, <br> including bar charts and <br> time graphs | $\bullet$ complete, read and <br> interpret information in <br> tables, including <br> timetables | $\bullet$ interpret and construct <br> pie charts and line graphs <br> and use these to solve <br> problems |

## STATISTICS - SOLVE STATISTICAL PROBLEMS

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | - 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 twostep 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 |


|  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| YEAR 1 | YEAR 2 | YEAR 3 |  | YEAR 4 | YEAR 5 |
|  |  |  |  | YEAR 6 |  |

