| Place Value |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | EYFS |  | KS1 |  | KS2 |  |  |  |
|  | 3-4 Years | Foundation | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  | - develop fast recognition of up to 3 objects, without having to count them individually ('subsidising') <br> - recite numbers past 5 <br> - say one number for each item in order: 1, 2, 3, 4, 5 <br> - know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principal') | - count objects, actions and sounds, up to 10 <br> - subitise with patterns, 5 and 10 frames, dots on dice, fingers, etc (up to 10) <br> - count beyond ten <br> - have a deep understanding of number to 10 , including the composition of each number <br> - subitise (recognise quantities without counting) up to 5 <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 - 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 - count backwards through zero to include negative numbers | - count forwards and backwards in steps of powers of 10 for any given number up to 1,000,000 <br> - count forwards and backwards with positive and negative whole numbers, including through zero |  |
|  | - show 'finger numbers' up to 5 <br> - experiment with their own symbols and marks as well as numerals <br> - link numerals and amounts [for example, showing the right number of objects to match the numeral, up to 5] | - link the number symbol (numeral) with its cardinal number value, up to 10 | - identify and represent numbers using objects and pictorial representations - read and write numbers to 100 in numerals - read and write numbers from 1 to 20 in numerals and words | - read and write numbers to at least 100 in numerals and in words <br> - identify, represent and estimate numbers using different representations, including the number line | - read and write numbers to at least 1000 in numerals and in words <br> - identify, represent and estimate numbers using different representations | - identify, represent and estimate numbers using different representations - read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value | - read, write (order and compare) numbers to at least $1,000,000$ and determine the value of each digit <br> - read Roman numerals to 1000 (M) and recognise years written in Roman numerals | - read, write (order and compare) numbers to at least 10,000,000 and determine the value of each digit |
|  | - compare quantities using language: 'more than', 'fewer than' | - compare numbers using vocabulary: 'more than', 'less than', 'fewer', 'the same as', 'equal to' 'most' <br> - understand the 'one more than/one less than' relationship between consecutive numbers <br> - Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity | - given a number, identify one more and one less | - recognise the place value of each digit in a two-digit number <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) <br> - compare and order numbers up to 1000 | - find 1000 more or less than a given number - recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, ones) <br> - order and compare numbers beyond 1000 | - (read, write) order and compare numbers to at least 1,000,000 and determine the value of each digit | - (read, write) order and compare numbers to at least 10,000,000 and determine the value of each digit |
|  |  |  |  | - 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 - solve number and practical problems that involve all of the above with increasingly large positive numbers | - interpret negative numbers in context <br> - round any number up to $1,000,000$ to the nearest 10, 100, 1000, 10000 and 100000 <br> - solve number 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 - solve number and practical problems that involve all of the above |


| Addition and subtraction |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | EYFS |  | KS1 |  | KS2 |  |  |  |
|  | 3-4 Years | Foundation | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  |  | - explore the composition of numbers to 10 <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 | - read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs <br> - represent and use number bonds and related subtraction facts within 20 | - recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 <br> - show the 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 the 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 |  |
|  |  |  | - add and subtract onedigit and two-digit numbers to 20 , including zero | - add and subtract numbers using concrete objects, pictorial representations, and mentally, including: > a two-digit number and ones <br> > a two-digit number and tens <br> $>$ two two-digit numbers <br> $>$ adding three one-digit 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 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 <br> - use their knowledge of the order of operations to carry out calculations involving the four operations |
|  | - solve real world mathematical problems with numbers up to 5 | - solve real world mathematical problems with numbers up to 10 | - solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=\square$ 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 two-step problems in contexts, deciding which operations and methods to use and why | - solve addition and subtraction multi-step problems and 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 equal sign | - solve addition and subtraction multi-step problems and contexts, deciding which operations and methods to use and why |


| Multiplication and Division |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | EYFS |  | KS1 |  | KS2 |  |  |  |
|  | 3-4 Years | Foundation | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  |  | - explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally | - count in $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10s up to 100 | - recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers - show that multiplication of two numbers can be done in any order (commutative) and division of one number by any other 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 numbers, and common factors of two numbers <br> - know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers - establish whether a number up to 100 is prime and recall prime numbers up to 19 <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 |
|  |  |  |  | - 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 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 two-digit 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 - 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 - divide numbers up to four digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context - perform mental calculations, including with mixed operations and large numbers |
|  |  |  | - 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 using 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 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 |
|  |  |  |  |  |  |  | - solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equal sign | - use their knowledge of the order of operations to carry out calculations involving the four operations |


|  | EYFS |  | KS1 |  | KS2 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 3-4 Years | Foundation | 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 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 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 give fraction, represented visually, including tenths and hundredths - recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements $>1$ as a mixed number [for example, $2 / 5+4 / 5$ $=6 / 5=1^{1 / 5}$ ] |  |
|  |  |  |  | - 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 |
|  |  |  |  | - 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 - multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $1 / 4 \times 1 / 2=1 / 8$ ] - divide proper fractions by whole numbers [for example, $1 / 3 \div 2=1 / 6$ ] |
|  |  |  |  |  | - 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 [for example, $0.71=$ $\left.{ }^{71} / 100\right]$ <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 |
|  |  |  |  |  |  | - 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 | - 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 |  |
|  |  |  |  |  |  | - find the effect of dividing a one- of two-digit number by 10 and 100, identifying the value of digits in the answer as ones, tenths and hundredths | - solve problems involving number up to three decimal places | -multiply and divide numbers by 10,100 and 1000 giving answers up to three decimal places <br> - multiply one-digit numbers with up to two decimal places by whole numbers - 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 |
|  |  |  |  |  |  | - solve simple measure and money problems involving fractions and decimals to two decimal places | - recognise the percent symbol (\%) and understand that percent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100 , and as a decimal - 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 \& Proportion


| Algebra |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | EYFS |  | KS1 |  | KS2 |  |  |  |
|  | 3-4 Years | Foundation | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| $\begin{aligned} & \text { © } \\ & \frac{0}{\circ} \\ & \frac{0}{\mathbf{O}} \\ & \hline \end{aligned}$ |  |  | - 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 <br> 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 |

[^0]| Measurement |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | EYFS |  | KS1 |  | KS2 |  |  |  |
|  | 3-4 Years | Foundation | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  | - make comparisons between objects relating to size, length, weight and capacity | - compare length, weight and capacity by making predictions and using vocabulary 'than' [for example, "This is heavier than that."] | - compare, describe and solve practical problems for: <br> $>$ lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] <br> $>$ mass/weight [for example, heavy/light, heavier/lighter, lighter than] <br> > capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] <br> $>$ time [for example, quicker, slower, earlier, later] <br> - measure and begin to record the following: <br> - lengths and heights <br> $>$ mass/weight <br> $\Rightarrow$ 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 ( ${ }^{\circ} \mathrm{C}$ ); capacity (litres, ml ) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels - compare and order lengths, mass, volume/capacity and record the results using $>,<$ and $=$ | - measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ), mass (kg/g); volume/capacity (l/ml) | - Convert between different units of measure [for example, kilometre to metre; hour to minute] - estimate, compare and calculate different measures | - convert between different units kilometre and metre- centimetre, and metre, centimetre and millimetre; gram and kilogram; litre and millilitre) <br> - understand and use approximate and common imperial metric units as inches, pounds and pints - 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 three decimal places where appropriate - use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places - convert between miles and kilometres |
|  |  |  | - 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 changes, 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] |  |
|  | - begin to describe a real or fictional, using words such as 'first', 'then... |  |  | - compare and sequence intervals of time <br> - tell and write the time to five minutes, including quarter pastto 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 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 example to calculate the time taken by particular events or tasks] | - 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 | - 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 |
|  |  |  |  |  | - 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 <br> 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 $\left(\mathrm{cm}^{2}\right)$ and square metres ( $\mathrm{m}^{2}$ ) and estimate the area of irregular shapes <br> - estimate volume ffor example, using $1 \mathrm{~cm}^{3}$ blocks to build cuboids (including cubes)] and capacity [for example sing 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 calculate, estimate and cuboids usinme of cubes and including cubic centime units, $\left(\mathrm{cm}^{3}\right)$ and cubic metres $\left(\mathrm{m}^{3}\right)$, and extending to other units [for example, $\mathrm{mm}^{3}$ and $\mathrm{km}^{3}$ ] |

talk about and explore 2 D and 3D shapes (for
example, circles
rectangles, triangles and uboids) using informal and mathematical language: sides', 'corners'; 'straight', flat', 'round'.
appropriately: flat surfaces
for building, a triangular prism for a roof etc

- combine shapes to make
bigger
bigger triangle etc.
understand position xamph words alone - for the table," - with no pointing
- describe a familiar route - discuss routes and locations, using words like in front of' and 'behind patterns around them. For example: stripes on clothes, designs on r and wallpaper. Use and walipaper. Use 'pointy', 'spotty', 'blobs' etc - extend and create ABAB patterns - stick, leaf, stick, leaf
- notice and correct an error
in a repeating pattern
manipulate shapes in order to develop spatial reasoning skills
- compose and decompose shapes so that children recognise a shape can have other shapes within it just as numbers can
- recognise and 1
recognise and name common 2-D shapes [for example, rectangles (including squares), circles and triangles]

| Geometry |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| KS1 | KS2 |  |  |  |
| Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| - 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 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 |
| - recognise and name common 3-D 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 |
|  | - recognise angles as a property of shape of 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 measure 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 $180^{\circ}$ ) <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 |
| - 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 threequarter turns (clockwise and anti-clockwise) |  | - 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 |


| Statistics |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | EYFS |  | KS1 |  | KS2 |  |  |  |
|  | 3-4 Years | Foundation | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  |  |  |  | - 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 |
|  |  |  |  | - ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity - 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 different 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 |


[^0]:    Note - although algebraic notation is not introduced until Y 6 , algebraic thinking
    starts much earlier as exemplified by the 'missing number' objectives from Y1/2/3

