|  |  | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ |  | >Count from 0- <br> 10 <br> >Represent <br> numbers with <br> fingers and <br> other objects <br> $>$ Recognise that <br> anything can be <br> used to count <br> >Begin to count <br> from 0 to 20 <br> Count an <br> irregular <br> arrangement of <br> up to 10 <br> objects | >Count to and <br> across 100 <br> >Count <br> forwards and <br> backwards <br> within 100, in <br> multiples of 1 , <br> 2,5 or 10. <br> >Count, read <br> and write <br> numbers to 100 <br> in numerals <br> $>$ Find 1 more or <br> 1 less of any <br> given number <br> within 100. | >Count in multiples of 2, 3,5 and 10 , from any number, forwards or backwards. >Find 10 more or 10 less than a given number within 100. | >Find 10 or 100 more or less than a given number within 1,000 <br> $>$ Count from 0 in multiples of 4,8, 50 and 100 | $>$ Count forwards and backwards in multiples of 2 to 12 and 25 , 50,100 and 1,000 $>C o u n t$ backwards through zero to include negative numbers | >Count forwards and backwards in multiples of 2 to 12, 25, 50 , $100,250,500$, 1,000 and 10,000 >Count backwards through zero to include negative numbers | >Count forwards and backwards in multiples of 2 to $12,25,50$, 100, 250, 500, 1,000, 10,000 and 100,000s and millions >Count down in intervals across zero |
| E |  | >Compare amounts in two groups of objects >Compare quantities of identical and nonidentical objects >Use the terms 'more than', 'greater than', 'less than' and 'fewer than' | $>$ Use the terms 'more than,' <br> 'greater than,' 'less than,' and 'fewer than' with numbers up to 50 . $>$ Use the terms 'most' and 'least.' >Use <,> and = to compare numbers | >Compare and order numbers from 0 to 100 >Use the <,> and = signs to compare numbers | >Compare and order numbers up to 1,000 | >Compare numbers beyond 1,000 | >Compare numbers up to 1,000,000 | >Compare numbers up to 10,000,000 |


|  |  | >Match <br> numeral to quantities <br> >Select the correct numeral which represents 1-10 objects | $>$ Find and estimate numbers on a number line <br> $>$ Match numeral to pictorial representations | >identify, represent and estimate numbers using different representations , including the number line | >Identify, represent and estimate numbers using different representations >Identify and write numbers up to 1,000 in numeral and words. | >Identify, represent and estimate numbers using different representations up to 10,000 | >Identify, represent and estimate numbers using different representations up to 1000,000 | >Identify, represent and estimate numbers using different representations up to 1000,000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $>$ Begin to write numbers <br> >Mark making to represent numbers <br> $>$ Write the correct numeral for a given number | $>$ Read and write numbers from $0-10$, then $0-20$, then 0-50 and finally 0 100 | >read and write numbers to at least 100 in numerals and in words | >read and write numbers to 1,000 in numerals and in words | $>$ read and write numbers to 1,000 in numerals and in words $>$ Read and write Roman Numerals to 100 | $>$ read and write numbers to $1,000,000$ in numerals and in words $>$ Read and write Roman Numerals to 1,000 | >read and write numbers to 10,000,000 and beyond in numerals and in words |
|  |  |  |  | >Understand the place value of each digit in a 2 digit number | >Understand the place value of each digit in a 3 digit number | >Understand the place value of each digit in a 4 digit number | >Understand the place value of each digit in a 5 digit number | >Understand the place value of each digit in a 6 digit number and beyond |
|  | $\begin{aligned} & \text { 응 } \\ & \stackrel{-}{ㄷ} \\ & \frac{6}{2} \\ & \stackrel{0}{0} \end{aligned}$ |  |  |  |  | >Round to the nearest 10, 100 or 1,000 | >Use rounding to check answers to + and answers and determine levels of accuracy with an answer. $>$ Round whole numbers to 10,100 or 1,000 >Round decimal numbers to the nearest whole number and to 1 decimal place. | $>$ Round any whole number <br> >Round with decimals up to 2 decimal places. >Round decimal remainders to the nearest decimal place or whole number. |



|  |  | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $C$ | $\begin{array}{ll} \frac{1}{0} & n \\ \hat{0} \\ \bar{E} & \frac{1}{0} \\ \vdots & \end{array}$ | >Number bonds to 5 <br> $>$ Number bonds to 10 using a ten frame >Number bonds to 10 with a part-whole model | Represent and use number bonds and related subtraction facts within 20. | >Recall and use addition and subtraction facts to 20 fluently >Derive related facts for addition and subtraction to 100 | >Use number bonds to 10 and grow these $x 10$ to support addition and subtraction with 10 s and 100 s |  |  |  |
|  |  | >Find one more and one less >Combine two groups to find the whole number. >Add by counting on >Subtract by counting back | ```>Add and subtract one digit and two digit numbers to 20, including with zero >Read write and interpret mathematical statements involving addition +, subtraction - and equals = signs``` | >add and subtract numbers using concrete objects, pictorial representations and mentally including <br> - a two-digit number and ones -a two-digit number and tens -two two-digit numbers <br> -adding three onedigit numbers >Show that adding two numbers can be done in any order (commutativity) and subtraction of one number from another cannot. | >Add and <br> subtract with one-digit numbers within formal written methods <br> >Add and subtract mentally up to 3 digits including: -a three-digit number and ones -a three-digit number and tens -a three-digit number and hundreds. | >Add and subtract with one-digit numbers within formal written methods | >+ and -- numbers mentally with increasingly large numbers >Add and subtract decimals within and beyond 1 >Find the difference between negative numbers and integers. >+ and - with negative numbers by counting forwards and backwards. |  |

Goat Lees Primary School - Maths Progression Map


|  |  |  |  | >Recognise and use inverse relationship between + and to check calculations and solve missing number problems. | >Estimate <br> answers to an + <br> or - calculation <br> and use the <br> inverse <br> operation to <br> check my <br> answers <br> >Solve missing <br> number <br> problems using <br> number facts, <br> place value and <br> more complex <br> + and - <br> methods | >Estimate answers to an + or - calculation and use the inverse operation to check my answers | >Use rounding to check answers to calculation and determine, in the context of a problem, levels of accuracy. | >Use <br> estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Problem solving | >Sort totals into groups | >Solve one-step problems that involve + and -, using concrete objects and pictorial representations and missing number problems such as $8=$ _ -4 | >Solve + and problems -using concrete objects and pictorial representations, numbers, quantities and measures -apply mental and written methods to solve a problem >Solve simple problems in a practical context, involving + and - of money of the same unit, including giving change. | $\begin{aligned} & \hline \text { >Solve missing } \\ & \text { number } \\ & \text { problems using } \\ & \text { number facts, } \\ & \text { place value and } \\ & \text { more complex } \\ & + \text { and - } \\ & \text { methods } \\ & \text { >Solve one and } \\ & \text { two-step } \\ & \text { questions, } \\ & \text { using addition } \\ & \text { and subtraction } \\ & \text { skills in other } \\ & \text { areas (ie: } \\ & \text { statistics - } \\ & \text { 'How many } \\ & \text { more?...) } \\ & \hline \end{aligned}$ | >Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. | >Solve + and -multi-step problems in contexts, deciding which operations and methods to use and why. | >Solve + and - multi-step problems in contexts, deciding which operations and methods to use and why. $>$ Carry out multi- step problems involving all four operations. $>$ Apply BIDMAS rules of the order of operations to answer questions. |


|  |  | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | >Doubling <br> >Halving <br> >Odds and Evens | >Count in multiples of twos, fives and tens | >Count in twos, fives, tens and threes, from any number within 100, forwards and backwards. <br> >Recall and use <br> $X$ and $\div$ facts for 2 s 5 s and 10s multiplication tables, including recognising odd and even numbers. | $\begin{aligned} & \text { >Count from } 0 \\ & \text { in multiples of } \\ & 4,8,50 \text { and } \\ & 100 \\ & >\text { Recall and use } \\ & \text { multiplication } \\ & \text { and division } \\ & \text { facts for the } 3, \\ & 4 \text { and } 8 \\ & \text { multiplication } \\ & \text { tables } \\ & >\text { Find and } \\ & \text { interpret } \\ & \text { multiples of } 10 \\ & >\text { Know related } \\ & \text { calculations } \\ & \text { between } \\ & \text { different times } \\ & \text { tables }(4 \times 2=8 \\ & \text { so } 4 \times 4=16) \end{aligned}$ | >Recall and use <br> $X$ and $\div$ facts <br> for <br> multiplication <br> tables up to 12 <br> x 12 <br> $>$ Count in <br> multiples of 6,7 , <br> 9,25 and 1000. | >Continue to practise using the multiplication tables and related division facts up to $12 \times 12$ <br> >Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers >Recognise and use square numbers and cube numbers and the notation for squared (2) and cubed (3) <br> >Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers. >Establish whether a number up to 100 is prime and recall prime numbers up to 19 |  |


|  |  |  | >Show that multiplication of two numbers can be done in any order, and division of one number cannot be done in any order. | $>$ Recall and use multiplication and division facts for the 2 , <br> 5, 10, 3, 4 and <br> 8 multiplication tables <br> >Understand scales between two amounts using $X$ and $\div$ | >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. | >Multiply and divide numbers mentally, drawing upon known facts. | >Perform mental calculations, including with mixed operations and large numbers. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\underset{\sim}{\sim}$ |  |  | >calculate <br> mathematical <br> statements for <br> multiplication <br> and division <br> within the <br> multiplication <br> tables and <br> write <br> them using the multiplication <br> $(\times)$, division ( $\div$ ) and equals (=) signs | $>$ Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. >X 2 digits by 1 digit and $\div 2$ digits by 1 digit with formal written methods. | >Multiply three numbers >Multiply two and three digit numbers by a one digit number using formal written layout. <br> >Use formal written method to $\div 3$ digits by 1 digit |  | >Multiply multi-digit numbers up to 4digits by a 2-digit number using the formal written method of long multiplication. <br> >Divide numbers up to 4 -digits by a 2 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. |



|  |  | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | >Recognise, find and name a half as one of two equal parts and a quarter as one of four equal parts of an object, shape or quantity. | >Recognise equal and unequal parts $>$ Recognise unit fractions: $1 / 21 / 4$ and 1/3 >Recognise non-unit fractions: 2/4 $2 / 33 / 4$ | >Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 <br> >Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. | > Recognise that <br> hundredths arise when dividing an object by one hundred and dividing tenths by ten. >Compare numbers with the same number of decimal places up to two decimal places. |  | >Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. >Compare and order fractions, including fractions $>1$. <br> $>$ ldentify the value of eachdigit in numbers <br> given to 3 decimal places and multiply numbers by 10 , 100 and 1000,giving answers up $\begin{array}{ll}\text { giving answers } \\ \text { to } & 3 \\ \text { decimal }\end{array}$ places. |


|  |  | $>$ |  | >Count up in fractions (halves, quarters, thirds) up to one whole. | >Count up and down in tenths | >Count up and down in hundredths; | >Calculate the whole, when we know what a fraction of the whole amount is. | >Generate and describe linear number sequences (with fractions). |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | pue sןem!̣әр suo!łכeдf पұ!м suo!łеןnวןеว |  |  | >Find simple fractions of objects, quantities and amounts, using pictorial division methods to answer arithmetic and reasoning questions. | >Recognise, find and write fractions of a discrete set of objects, including unit and non-unit fractions. <br> >Recognise, find, name and write fractions $1 / 31 / 41 / 22 / 4$ $2 / 33 / 4$ of a length, shape, set of objects or quantity | > Add and subtract <br> fractions with the same denominator. <br> $>$ Find the effect of <br> dividing a one or <br> two digit number <br> by 10 or 100 , <br> identifying the <br> value of the digits <br> in the answer as <br> ones, tenths and <br> hundredths. <br> >Convert between <br> different units of <br> measure (for <br> example, <br> kilometre to <br> metre). <br> $>$ Find the effect of dividing a one or two digit number by 10 or 100 , identifying the value of the digits in the answer as ones, tenths or hundredths. | $>$ Add and subtract fractions with the same denominator and denominators that are multiples of the same number. $>$ Multiply proper fractions and mixed numbers by integers (whole numbers) supported by materials and diagrams. $>$ Calculate fractions of a quantity $>$ Find fractions of amounts | >Add and subtract <br> fractions with different denominations and mixed numbers, using the concept of equivalent fractions. >Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example $1 / 4 \times 1 / 2=1 / 8$ <br> >Divide proper fractions by whole numbers. <br> >Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction. >Multiply one-digit numbers with up to 2 decimal places by whole numbers. Use written division methods in cases where the answer has up to 2 decimal places. |




|  |  | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | > solve one <br> -step <br> problems that <br> involve <br> addition and <br> subtraction, <br> using <br> concrete <br> objects and <br> pictorial <br> representations <br> , and <br> missing number <br> problems such <br> as $7=$ $\qquad$ - 9 <br> represent and use <br> number bonds <br> and <br> related <br> subtraction <br> facts within 20 | > recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems. recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 >understand and complete calculations where pictures are used to represent numbers in a calculation | >use inverse <br> operations to <br> check <br> calculations <br> and find the <br> missing number <br> in + and - <br> questions <br> >understand <br> and complete <br> calculations <br> where pictures <br> are used to <br> represent <br> numbers in a <br> calculation | >use inverse <br> operations to <br> check <br> calculations <br> and find the <br> missing number <br> in,,$+- x$ and $\div$ <br> questions <br> >understand <br> and complete <br> calculations <br> where pictures <br> are used to <br> represent <br> numbers in a <br> calculation | >use inverse <br> operations to <br> check <br> calculations <br> and find the <br> missing number <br> in,,$+- x$ and $\div$ <br> questions <br> >understand <br> and complete <br> calculations <br> where pictures <br> are used to <br> represent <br> numbers in a <br> calculation | > Use simple formulae > 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. |
| $\frac{0}{0}$ $\frac{1}{4}$ $\frac{1}{4}$ | $\begin{aligned} & \mathscr{U} \\ & \underset{\sim}{U} \\ & \underset{\sim}{U} \\ & \underset{\sim}{U} \end{aligned}$ | >sequence events that happen during our school day in chronological order. <br> >copy and continue patterns of objects | > sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening | > compare and sequence intervals of time order >arrange combinations of mathematical objects in patterns >continue sequences of 2 , 3,5 and 10 , | > compare and sequence intervals of time order >continue sequences with multiples of 4,8, 50 and 100 | >Continue sequences with multiples of 2 to 12 and 25 , 50, 100 and 1,000, including counting backwards with negative numbers | >continue sequences with multiples of 2 to 12, 25, 50, 100, 250, 500, 1,000 and 10,000 including counting backwards with negative numbers. >Continue and complete number sequences. | > Generate and describe linear number sequences, including with fractions. |


|  |  | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 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] <br> * capacity and volume [e.g. <br> full/empty, more than, less than, half, half full, quarter] * time [e.g. quicker, slower, earlier, later] >sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon | >compare the sizes of shapes and objects >compare the volume and capacity within different containers >compare the duration of different events with minutes or hours | >compare the perimeter of 2D shapes >Measure, compare, add and subtract: lengths (m/cm/mm); mass $(\mathrm{kg} / \mathrm{g}) ;$ volume/capacit y (l/ml). >compare the volume and capacity within different containers > Estimate and read time with increasing accuracy to the nearest minute. >Record and compare time in terms of seconds, minutes and hours. > Compare durations of events [for example to calculate the time taken by particular events or tasks]. | >Find the area of rectilinear shapes by counting squares <br> >Compare <br> areas <br> > Measure and calculate the perimeter of a rectilinear figure <br> (including <br> squares) in centimetres and metres. <br> >> Estimate, <br> compare and <br> calculate <br> different <br> measures <br> including money in pounds and pence. | >Calculate and compare the area of rectangles (including squares), and including using standard units, cm2, m2 estimate the area of irregular shapes. <br> $>$ Compare \& estimate volume >Estimate capacity | $>\quad$ Recognise that shapes with the same areas can have different perimeters and vice versa. |

Goat Lees Primary School - Maths Progression Map


|  | $\stackrel{\text { E }}{E}$ | >Daily routine Order and sequence events >measure short periods of time | >ell the time to the hour and half past the hour and draw the hands on a clock face to show these times. <br> > recognise and use language relating to dates, including days of the week, weeks, months and years | >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. | > Estimate and read time with increasing accuracy to the nearest minute. <br> >Record and compare time in terms of seconds, minutes and hours. <br> > Tell and write the time from an analogue clock, including using Roman numerals from I to XII and 12-hour and 24hour clocks. <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 12- and 24-hour clocks. <br> >Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. | $>$ Convert units of time <br> >Calculate with timetables |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $$ |  | >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 find different combinations of coins that equal the same amounts of money solve simple problems in a practical | > 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. <br> >Solve simple measure and money problems |  |  |



Goat Lees Primary School - Maths Progression Map

|  |  | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Identify Shapes and their Properties | >Recognise 2-D shapes and 3-D shapes, using Mathematical terms. <br> >Select a particular named shape., | >Recognise 2-D and 3-Shapes including: -2-D squares, circles and triangles. -3-D cuboids, cubes, pyramids and spheres | >Identify the properties of 2-D shapes, including number of sides and vertical lines of symmetry. >Identify \& describe the properties of 3-D shapes including edges, vertices and faces >Identify the 2-D shapes in the faces of 3-D shapes | >Recognise angles as a property of shape 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 horizontal and vertical lines and pairs of perpendicular and parallel lines. <br> Recognise 3-D shapes in different orientations and describe them. | > Identify acute and obtuse angles <br> > Identify lines of symmetry in 2-D shapes presented in different orientations. | > Identify 3D shapes, including cubes and other cuboids, from 2D representations. Use the properties of rectangles to deduce related facts | >Recognise that shapes with the same areas can have different perimeters and vice versa. <br> > Compare and classify geometric shapes based on their properties and sizes <br> >Describe positions on the full coordinate grid (all four quadrants). |

Goat Lees Primary School - Maths Progression Map

|  |  | >Make simple patterns involving shapes. >Explore more complex patterns |  | >Draw 2-D shapes, using our knowledge of properties to draw them. <br> >Complete a simple symmetrical shape reflecting on a vertical line of symmetry. | > Draw 2-D shapes and make 3-D shapes using modelling materials. | >Complete a simple symmetric figure with respect to a specific line of symmetry. <br> > Plot specified points and draw sides to complete a given polygon. | > Draw given angles, and measure them in degrees ( ${ }^{\circ}$ ) | >lllustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. <br> > Draw 2-D shapes using given dimensions and angles. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $>$ Order 2 or 3 items by length and height >Order 2 items by mass or capacity. |  | >Compare and sort common 2-D and $3-\mathrm{D}$ shapes and everyday objects | >Identify whether angles are greater than or less than a right angle | $\begin{aligned} & \text { >Compare the area } \\ & \text { of different } \\ & \text { shapes. } \\ & >\text { compare and } \\ & \text { order angles up to } \\ & \text { two right angles by } \\ & \text { size. >Compare } \\ & \text { and classify } \\ & \text { geometric shapes, } \\ & \text { including } \\ & \text { quadrilaterals and } \\ & \text { triangles, based } \\ & \text { on their properties } \\ & \text { and sizes. } \\ & >\text { Describe } \\ & \text { positions on a 2-D } \\ & \text { grid as coordinates } \\ & \text { in the first } \\ & \text { quadrant } \end{aligned}$ | >Compare the area of rectangles (including squares) <br> > Find missing lengths and angles. <br> > Distinguish between regular and irregular polygons based on reasoning about equal sides and angles | >Compare the volume of cubes and cuboids |



|  |  | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | >Describe the position of an object <br> >Use positional language <br> >Follow <br> instructions and describe movements, using maps. | >Describe position, direction and movement, including $1 / 21 / 4$ and $3 / 4$ 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 threequarter turns (clockwise and anti -clockwise <br> >Describe movements using up, down, left and right. <br> >Find locations using up, down, left and right. | >Recognise angles as a description of a turn | > Describe movements between positions as translations of a given unit to the left/right and up/down | > Identify, describe and represent the position of a shape following <br> a reflection or translation, using the appropriate language, and know that the shape has not changed. | >Translate simple shapes on the coordinate plane, and reflect them in the axes. |
| $\frac{1}{E}$ |  | > Use common shapes to create patterns and build models |  | >Order and arrange combinations of mathematical objects in patterns and sequences |  |  |  |  |


|  |  | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | > Read and interpret tables >Read and interpret block diagrams > Interpret Pictograms | >Interpret data in bar charts, pictograms and tables. | > Interpret discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. | >Read and interpret information in tables including timetables. | > Interpret dual- <br> bar charts <br> >Interpret pie charts. >Interpret line graphs |
|  |  |  |  | >Make tally charts >Construct pictograms with no scale >Construct Pictograms with a scale of 2, 5 and 10 | > Present data using bar charts, pictograms and tables. | >Present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. | >Present and complete information in tables including timetables. | > Construct and interpret dual-bar charts <br> >Construct pie charts using degrees and fractions/percent ages of $360^{\circ}$ >Construct line graphs and use these to solve problems. |
|  |  |  |  | >Calculate how many responses there were in total. <br> >Calculate the difference between amounts in a tally chart, pictogram or block diagram. | > 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 the size of angles to construct pie charts. >Calculate the mean as an average. |

