## Maths Long Term Plan and Progression of Skills and Knowledge

Year 3 Long Term Plan:

|  | Wk 1 Wk 2 | Wk 3 | Wk 4 | Wk 5 | Wk 6 | Wk 7 | Wk 8 | Wk 9 | Wk 10 | Wk 11 | Wk 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Aut | Number: Place Value <br> 3NPV-1, 3NPV-2, 3NPV-3, 3-NPV-4 |  | Number: Addition and Subtraction <br> 3NF-3, 3AS-2, 3AS-3 |  |  |  |  | Number: Mulitiplication and Division A3-MD-1, 3NF-2 |  |  |  |
| Spr | Number: Mulitiplication and Division B <br> 3NF-2, 3NF-3, 3MD-1 |  | Measurement: Length and Perimeter <br> 3NF-1, 3NPV-2, 3NPV-3, 3AS-2 |  |  | Number: Fractions A$3 F-1,3 F-2,3 F-3$ |  |  | Measurement: Mass and Capacity 3AS-2, 3NF-1, 3NPV-4 |  |  |
| Sum | Number: Fractions B 3F-1, 3F-2, 3F-3, 3F-4 | Measurement: <br> Money <br> 3NF-1, 3NPV-2, 3AS-2 |  | Measurement: Time |  |  | Geometry: Properties of Shapes 3G-1, 3G-2 |  | Statistics <br> 3NPV-4 |  | Consolidation |

## Maths Long Term Plan and Progression of Skills and Knowledge

In line with government guidance, the Year 3 Ready-to-Progress criteria has been mapped to the long term plan. The Ready-to-Progress criteria sets out the key areas that children must be secure with in order to progress with their learning the following year.

There are 6 strands within this criteria: Number and Place Value, Number Facts, Addition and Subtraction, Multiplication and Division, Fractions and Geometry.

| Strand | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NPV | 1NPV-1 Count within 100, forwards and backwards, starting with any number. |  | 3NPV-1 Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10 ; apply this to identify and work out how many 10s there are in other threedigit multiples of 10 | 4NPV-1 Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100; apply this to identify and work out how many 100s there are in other four-digit multiples of 100. | 5NPV-1 Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1 . Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01 . Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01 . | 6NPV-1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10,100 and 1,000 ). |
|  |  | 2NPV-1 Recognise the place value of each digit in twodigit numbers, and compose and decompose twodigit numbers using standard and | 3NPV-2 Recognise the place value of each digit in threedigit numbers, and compose and decompose threedigit numbers using standard and non- | 4NPV-2 Recognise the place value of each digit in fourdigit numbers, and compose and decompose fourdigit numbers using standard and | 5NPV-2 Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to | 6NPV-2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose |

## Maths Long Term Plan and Progression of Skills and Knowledge

|  |  | nonstandard partitioning. | standard partitioning. | nonstandard partitioning. | 2 decimal places using standard and nonstandard partitioning. | numbers up to 10 million using standard and nonstandard partitioning. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing using $<>$ and $=$ | 2NPV-2 Reason about the location of any twodigit number in the linear number system, including identifying the previous and next multiple of 10 . | 3NPV-3 Reason about the location of any threedigit number in the linear number system, including identifying the previous and next multiple of 100 and 10. | 4NPV-3 Reason about the location of any fourdigit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100 , and rounding to the nearest of each. | 5NPV-3 Reason about the location of any number with up to 2 decimals places in the linear number system, including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each. | 6NPV-3 Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts. |
|  |  |  | 3NPV-4 Divide 100 into $2,4,5$ and 10 equal parts, and read scales/number lines marked in multiples of 100 with $2,4,5$ and 10 equal parts. | 4NPV-4 Divide <br> 1,000 into $2,4,5$ <br> and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with $2,4,5$ and 10 equal parts. | 5NPV-4 Divide 1 into $2,4,5$ and 10 equal parts, and read scales/number lines marked in units of 1 with $2,4,5$ and 10 equal parts. | 6NPV-4 Divide powers of 10 , from 1 hundredth to 10 million, into $2,4,5$ and 10 equal parts, and read scales/number lines with labelled intervals divided into $2,4,5$ and 10 equal parts. |
|  |  |  |  |  | 5NPV-5 Convert between units of measure, including using common decimals and fractions. |  |
| NF | 1NF-1 Develop fluency in addition | 2NF-1 Secure fluency in addition | 3NF-1 Secure fluency in addition |  |  |  |

## Maths Long Term Plan and Progression of Skills and Knowledge

|  | and subtraction facts within 10. | and subtraction facts within 10 , through continued practice. | and subtraction facts that bridge 10, through continued practice. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1NF-2 Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples, beginning with any multiple, and count forwards and backwards through the odd numbers. |  | 3NF-2 Recall multiplication facts, and corresponding division facts, in the $10,5,2,4$ and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number. | 4NF-1 Recall multiplication and division facts up to , and recognise products in multiplication tables as multiples of the corresponding number. | 5NF-1 Secure fluency in multiplication table facts, and corresponding division facts, through continued practice. |  |
|  |  |  |  | 4NF-2 Solve division problems, with two-digit dividends and onedigit divisors, that involve remainders, and interpret remainders appropriately according to the context. |  |  |
|  |  |  | 3NF-3 Apply placevalue knowledge to known additive and multiplicative number facts (scaling facts by 10 ). | 4NF-3 Apply placevalue knowledge to known additive and multiplicative number facts (scaling facts by 100) | 5NF-2 Apply placevalue knowledge to known additive and multiplicative number facts (scaling facts by 1 |  |

## Maths Long Term Plan and Progression of Skills and Knowledge

|  |  |  |  | tenth or 1 hundredth). |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| AS | 1AS-1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers. | 2AS-1 Add and subtract across 10. | 3AS-1 Calculate complements to 100. |  | 6AS/MD-1 Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number). |
|  | 1AS-2 Read, write and interpret equations containing addition ( + ), subtraction (-) and equals ( $=$ ) symbols, and relate additive expressions and equations to real-life contexts. | 2AS-2 Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more...?". | 3AS-2 Add and subtract up to threedigit numbers using columnar methods. |  | 6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding. |
|  |  | 2AS-3 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a two-digit number. | 3AS-3 Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part-part-whole |  | 6AS/MD-3 Solve problems involving ratio relationships. |

## Maths Long Term Plan and Progression of Skills and Knowledge



## Maths Long Term Plan and Progression of Skills and Knowledge

|  |  |  | equations (quotitive division). |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 4MD-3 Understand and apply the distributive property of multiplication. | 5MD-3 Multiply any whole number with up to 4 digits by any one-digit number using a formal written method. |  |
|  |  |  |  |  |  | 5MD-4 Divide a number with up to 4 digits by a one-digit number using a formal written method, and interpret remainders appropriately for the context. |  |
| F |  |  |  | 3F-1 Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts. |  |  | 6F-1 Recognise when fractions can be simplified, and use common factors to simplify fractions. |
|  |  |  |  | 3F-2 Find unit fractions of quantities using known division facts (multiplication tables fluency). |  | 5F-1 Find non-unit fractions of quantities. | 6F-2 Express fractions in a common denomination and use this to compare fractions that are similar in value. |
|  |  |  |  | 3F-3 Reason about the location of any | 4F-1 Reason about the location of |  | 6F-3 Compare fractions with |

## Maths Long Term Plan and Progression of Skills and Knowledge

$\left.\begin{array}{|l|l|l|l|l|l|l|l|l|l}\hline & & & \begin{array}{l}\text { fraction within } 1 \text { in } \\ \text { the linear number } \\ \text { system. } \\ \text { denominators, } \\ \text { including fractions } \\ \text { greater than } 1, \text { using } \\ \text { reasoning, and } \\ \text { choose between } \\ \text { reasoning and } \\ \text { common } \\ \text { denomination as a } \\ \text { comparison } \\ \text { strategy. }\end{array} \\ \text { the linear number } \\ \text { system. }\end{array}\right]$

## Maths Long Term Plan and Progression of Skills and Knowledge

|  | cuboids and pyramids are not always similar to one another. | differences in properties. | different orientations. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 5G-2 Compare areas and calculate the area of rectangles (including squares) using standard units. |  |
|  | 1G-2 Compose 2D and 3D shapes from smaller shapes to match an example, including manipulating shapes to place them in particular orientations. |  | 3G-2 Draw polygons by joining marked points, and identify parallel and perpendicular sides. | 4G-1 Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant. |  | 6G-1 Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems. |
|  |  |  |  | 4G-2 Identify regular polygons, including equilateral triangles and squares, as those in which the sidelengths are equal and the angles are equal. Find the perimeter of regular and irregular polygons. |  |  |
|  |  |  |  | 4G-3 Identify line symmetry in 2D shapes presented in different |  |  |

## Maths Long Term Plan and Progression of Skills and Knowledge

|  |  |  |  | orientations. Reflect <br> shapes in a line of <br> symmetry and <br> complete a <br> symmetric figure or <br> pattern with respect <br> to a specified line of <br> symmetry. |  |
| :--- | :--- | :--- | :--- | :--- | :--- |

## Maths Programme of Study <br> National Curriculum (2013)

| Purpose of study | Mathematics is a creative and highly inter-connected discipline that has been developed over centuries, providing the solution <br> to some of history's most intriguing problems. It is essential to everyday life, critical to science, technology and engineering, <br> and necessary for financial literacy and most forms of employment. A high-quality mathematics education therefore provides a <br> foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of <br> mathematics, and a sense of enjoyment and curiosity about the subject. |
| :--- | :--- |

## Maths Long Term Plan and Progression of Skills and Knowledge

| Aims |
| :--- |
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|  |
| Subject content - by <br> the end of Key Stage <br> 1 pupils should be <br> taught to: |

The national curriculum for mathematics aims to ensure that all pupils:

- become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can solve problems by applying their mathematics to a variety of routine and nonroutine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Mathematics is an interconnected subject in which pupils need to be able to move fluently between representations of mathematical ideas. The programmes of study are, by necessity, organised into apparently distinct domains, but pupils should make rich connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. They should also apply their mathematical knowledge to science and other subjects. The expectation is that the majority of pupils will move through the programmes of study at broadly the same pace. However, decisions about when to progress should always be based on the security of pupils' understanding and their readiness to progress to the next stage. Pupils who grasp concepts rapidly should be challenged through being offered rich and sophisticated problems before any acceleration through new content. Those who are not sufficiently fluent with earlier material should consolidate their understanding, including through additional practice, before moving on.

The principal focus of mathematics teaching in key stage 1 is to ensure that pupils develop confidence and mental fluency with whole numbers, counting and place value. This should involve working with numerals, words and the four operations, including with practical resources [for example, concrete objects and measuring tools]. At this stage, pupils should develop their ability to recognise, describe, draw, compare and sort different shapes and use the related vocabulary. Teaching should also involve using a range of measures to describe and compare different quantities such as length, mass, capacity/volume, time and money. By the end of year 2, pupils should know the number bonds to 20 and be precise in using and understanding place value. An emphasis on practice at this early stage will aid fluency. Pupils should read and spell mathematical vocabulary, at a level consistent with their increasing word reading and spelling knowledge at key stage 1.

## Maths Long Term Plan and Progression of Skills and Knowledge

| Subject content - by <br> the end of Lower Key <br> Stage 2 pupils should <br> be taught to: | The principal focus of mathematics teaching in lower key stage 2 is to ensure that pupils become increasingly fluent with whole <br> numbers and the four operations, including number facts and the concept of place value. This should ensure that pupils develop <br> efficient written and mental methods and perform calculations accurately with increasingly large whole numbers. At this stage, <br> pupils should develop their ability to solve a range of problems, including with simple fractions and decimal place value. Teaching <br> should also ensure that pupils draw with increasing accuracy and develop mathematical reasoning so they can analyse shapes <br> and their properties, and confidently describe the relationships between them. It should ensure that they can use measuring <br> instruments with accuracy and make connections between measure and number. By the end of year 4, pupils should have <br> memorised their multiplication tables up to and including the 12 multiplication table and show precision and fluency in their <br> work. Pupils should read and spell mathematical vocabulary correctly and confidently, using their growing word reading <br> knowledge and their knowledge of spelling. |
| :--- | :--- |
| Subject content - by <br> the end of Upper Key <br> Stage 2 pupils should <br> be taught to: | The principal focus of mathematics teaching in upper key stage 2 is to ensure that pupils extend their understanding of the <br> number system and place value to include larger integers. This should develop the connections that pupils make between <br> multiplication and division with fractions, decimals, percentages and ratio. At this stage, pupils should develop their ability to <br> solve a wider range of problems, including increasingly complex properties of numbers and arithmetic, and problems demanding <br> efficient written and mental methods of calculation. With this foundation in arithmetic, pupils are introduced to the language of <br> algebra as a means for solving a variety of problems. Teaching in geometry and measures should consolidate and extend <br> knowledge developed in number. Teaching should also ensure that pupils classify shapes with increasingly complex geometric <br> properties and that they learn the vocabulary they need to describe them. By the end of year 6, pupils should be fluent in written <br> methods for all four operations, including long multiplication and division, and in working with fractions, decimals and <br> percentages. Pupils should read, spell and pronounce mathematical vocabulary correctly. |

Maths Long Term Plan and Progression of Skills and Knowledge

Year 3 Curriculum Progression

What should they know from the previous
year?
Year 2

What should they know this year?

Year 3
Year 4

Number - Number and place value

- Count in steps of 2,3 and 5 from 0 and in 10s from any number, forward and backward.
- Recognise the place value of each digit in a 2 -digit number (tens, ones).
- Identify, represent and estimate numbers using different representations (including the number line).
- Compare and order numbers from 0 to 100 ; use < , > and =
- Read and write numbers to at least 100 in numerals and words.
- Count from 0 in multiples of $4,8,50$ and 100 ; find 10 or 100 more/less.
- Recognise the place value of 3-digit number (hundreds, tens, ones).
- Compare and order numbers to 1000.
- Identify, represent and estimate numbers using different representations.
- Read and write numbers to 1000 in numerals and words.
- Solve number problems and practical problems involving these ideas.
- Count in multiples of 6, 7, 9, 25 and 1000.
- Find 1000 more or less.
- Count backwards through zero to include negative numbers.
- Recognise the place value of each 4 digit number (thousands, hundreds, tens, ones.)
- Order and compare numbers beyond 1000.
- Identify, represent and estimate numbers using different representations.


## Maths Long Term Plan and Progression of Skills and Knowledge

- Use place value and number facts to solve problems.
- Round any number to the nearest 10 , 100 or 1000 .
- Solve numbe and practical problems involving the above.
- Read Roman numerals to 100 and know that the numeral system changed over time to include zero/place value.


## Number - addition and subtraction

- Solve problems with addition and subtraction (using concrete objects and pictorial representations; applying their increasing knowledge of mental and written methods.)
- Recall and use addition and subtraction facts to 20 fluently and derive/use related facts up to 100 .
- Add and subtract numbers using concrete objects, pictorial representations and mentally (including: 2-digit number and ones; 2-digit number and tens; two 2-digit
- Add and subtract numbers mentally including: 3-digit number and ones; 3digit number and tens; 3-digit number and hundreds).
- Add and subtract numbers with 3 digits, using formal written methods (column addition and subtraction).
- Estimate the answer to a calculation and use inverse operations to check answers.
- Solve problems, including missing number, using number facts, place value and more complex + and -
- Add and subtract numbers with up to 4 digits using formal written methods (column).
- Estimate and use inverse operations to check answers to calculations.
- Solve addition and subtraction twostep problems in context, deciding which operations/method to use and why.


## Maths Long Term Plan and Progression of Skills and Knowledge

numbers; adding three 1-digit numbers).

- Show that addition can be done in any order (commutative) and subtraction can't.
- Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.


## Number - multiplication and division

- Recall and use $x$ and $\div$ facts for 2,5 and 10 times tables and recognise odd and even numbers.
- Calculate x and $\div$ statements within times tables and use the signs.
- Show multiplication can be done in any order (commutative) and division can't.
- Recall and use $x$ and $\div$ facts for 3,4 and 8 times tables.
- Write an calculate $x$ and $\div$ statements using times tables they know (including 2-digit numbers times 1digit, using mental method then written).
- Solve problems, including missing number, involving $x$ and $\div$ (including positive integer scaling problems and correspondence problems.)
- Recall x and $\div$ facts for times tables up to $12 \times 12$.
- Use place value, known and derived facts to $x$ and $\div$ mentally (including $x$ 0 and $1, \div 1, x 3$ numbers together).
- Recognise and use factor pairs and commutativity in mental calculations.
- Multiply 2-digit and 3-digit numbers by 1 -digit using formal method.
- Solve problems involving $x$ and (including distributive law to $\times 2$-digit


## Maths Long Term Plan and Progression of Skills and Knowledge

- Solve problems involving $x$ and :(using materials, arrays, repeated addition, mental methods)
numbers by 1-digit, integer scaling problems and harder correspondence problems.)


## Number - fractions

- Recognise, find, name and write fractions: $\frac{1}{3}, \frac{1}{4}, \frac{2}{4}$ and $\frac{3}{4}$ of length, shape, objects and quantity.
- Write simple fractions and recognise equivalent of $\frac{1}{2}$ and , $\frac{2}{4}$
- Count up and down in tenths; recognise tenths come from $\div 10$.
- Recognise, find and write fractions of objects (unit and non-unit fractions with small denominators).
- Recognise and use fractions as numbers
- Recognise and show, using diagrams, equivalent fractions with small denominators.
- Add and subtract fractions with same denominator within 1 whole.
- Compare and order unit fractions/fractions with same denominator.
- Solve problems involving above.
- Recognise and show, using diagrams, families of common equivalent fractions.
- Count up and down in hundredths; recognise hundredths come from $\div$ 100 or $\div$ tenths by 10 .
- 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).
- Add and subtract fractions with same denominator.
- Recognise and write decimal equivalents of any number of tenths and hundredths.


## Maths Long Term Plan and Progression of Skills and Knowledge

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| :---: | :---: |

- Recognise and write decimal equivalents to $\frac{1}{4}, \frac{2}{4}$ and $\frac{3}{4}$.
- Find effect of dividing a 1 or 2 -digit number by 10 and 100 (identifying value of digits as ones, tenths, hundredths).
- Round decimals with 1dp to nearest whole number.
- Compare numbers with same number of decimals (up to $2 d p$ ).
- Solve simple measure and money problems involving fractions and decimals (to 2dp).


## Measurement

- Choose and use appropriate standard units to estimate and measure: length/height; mass; temperature; capacity
- Compare and order: lengths; mass; volume/capacity and record results using < , > and =
- Measure, compare, add and subtract: lengths; mass; volume/capacity.
- Measure perimeter of 2D shapes
- Add and subtract amounts of money to give change.
- Convert between different units of measure.
- Measure and calculate perimeter of rectilinear figure (cms, ms).
- Find area of rectilinear shapes by counting squares.


## Maths Long Term Plan and Progression of Skills and Knowledge

- Recognise and use symbols for pounds and pence; combine amounts to make value
- Find different combinations of coins that equal same amount of money.
- Solve simple problems in practical context involving + and - of money (including giving change).
- Compare and sequence intervals of time.
- Tell and write time to 5 minutes and draw hands on clock.
- Know number of minutes in hour and hours in a day.
- Tell and write time from analogue clock (including Roman numerals from I to XII; 12 and 24 hr clocks).
- Estimate and read time to nearest minute. Record and compare time using secs, mins and hours.
- Know number of seconds in minute and days in each month and leap year.
- Compare durations of events
- Estimate, compare and calculate different measures, including money in pounds and pence.
- Read, write and convert between analogue and digitial 12 and $24-\mathrm{hr}$ clocks.
- Solve problems involving converting from hours to mins; mins to secs; years to months; weeks to days.


## Geometry - properties of shapes

- Identify and describe 2D shapes (number of sides, vertical lines of symmetry).
- Identify and describe 3D shapes (edges, vertices, faces)
- Draw 2D shapes and make 3D shapes using materials.
- Recognise 3D shapes in different orientations and describe them.
- Compare and classify geometric shapes (including quadrilaterals and triangles, based on their properties and sizes)


## Maths Long Term Plan and Progression of Skills and Knowledge

- Identify 2D shapes on surface of 3D shapes.
- Compare and sort 2D and 3D shapes.
- Identify right angles (2 right angles make half-turn; 3 make $3 / 4$ turn; 4 make complete turn; identify angles less than/greater than right angle).
- Identify horizontal and vertical lines and perpendicular/parallel lines.
- Identify acute and obtuse angles and compare and order angles up to 2 right angles by size.
- Identify lines of symmetry in 2D shapes presented in different orientations.
- Complete a simple symmetric figure with respect to a specific line of symmetry.

Geometry - position and direction

- Order and arrange combinations of mathematical objects in patterns and sequences.
- Use mathematical vocab to describe position, direction and movement in straight line and distinguish between rotation as a turn and in terms of right angles (clockwise and anticlockwise).
- Describe positions on a 2D grid as coordinates in the first quadrant.
- Describe movements between positions as translations of a given unit to the left/right and up/down.
- Plot specified points and draw sides to complete a given polygon.


## Statistics

- 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.


## Maths Long Term Plan and Progression of Skills and Knowledge

- Ask and answer simple questions by counting objects in each group and sorting categories by quantity.
- Ask and answer questions about totalling and comparing categorical data.
- Solve one-step and two-step questions, using information presented in scaled bar charts, pictograms and tables.
- Solve comparison, sum and difference problems using information presented in charts, pictograms, tables and other graphs.

