| Block | Topic | Term | Number of Weeks | Notes |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Number and Place Value |  |  |  |
| 2 | Addition and Subtraction |  |  |  |
| 3 | Multiplication and Division |  |  |  |
| 4 | Fractions |  |  |  |
| 5 | Decimals and Percentages |  |  |  |
| 6 | Geometry |  |  |  |
| 7 | Measure - Length, Mass and Capacity |  |  |  |
| 8 | Measure - Perimeter and Area |  |  |  |
| 9 | Measure - Time |  |  |  |
| 10 | Statistics |  |  |  |


| Block 1 |  |  |  |
| :---: | :---: | :---: | :---: |
| Number and Place Value |  |  |  |
| Substantive Knowledge <br> National Curriculum | Ready to Progress | Key Performance Indicators | Sequence of learning <br> Detailed in Planning Overview |
| Read, write, order and compare numbers to at least 1000000 and determine the value of each digit | NPV-2 Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and non-standard partitioning. | - Can explain the place value in numbers up to 1000000 <br> - Can order a set of numbers to 1000000 <br> - Understands how a number can be partitioned into different amounts e.g. 45000 is 45 thousands, 450 hundreds, 4500 tens or 45000 ones. | *Reading, writing and making numbers to a million (place value charts, place value counters, digit cards) <br> *Recognise the place value of each digit in a 7-digit number <br> *Look at the impact of adding powers of 10 to a number up to 1,000,000 (with and without crossing boundaries) <br> *Understanding the size and value of a million (How <br> Big is a Million - Usborne) <br> *Partition a number up to 1 million in a standard and non-standard way <br> *Compare and order numbers to 1,000,000 <br> *Position numbers up to 1 million on a number line with a range of start and ending points - blank and called number lines <br> *Order and compare numbers (either by positioning on a number line first or by using place value) <br> *Rounding numbers up to 1 million to the nearest 10, $100,1000,10,000$ and 100,000 <br> *Read and position negative numbers on a number line. <br> *Calculate the difference between a positive and a negative number by bridging back through 0 <br> *Counting forwards and backwards with positive and negative numbers <br> *Reading and writing Roman Numerals up to 1000 <br> *Problem solving |
| Count forwards or backwards in steps of powers of 10 for any given number up to 1 000000 |  | - Can count forwards and backwards in 10 s and 100s and explain how to find numbers 10 and 100 bigger or smaller than any number to 1000000. <br> - Can count forwards and backwards in 1 OOOs and 10 000s and explain how to find numbers 1000 and 10000 bigger or smaller than any number to 1000000. |  |
| Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero |  | - Understands how to bridge through zero when counting forwards and backwards with positive and negative numbers <br> - Can solve problems linked to temperature involving negative numbers |  |
| Round any number up to 1000000 to the nearest 10, 100, 1000, 10 000 and 100000 | NPV-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. | - Understands the rules for rounding numbers and round any number up to 1000000 to the nearest $10,100,1000,10000$ and 100 000 |  |

## Year 5 - Mathematics Intent

| Solve number problems <br> and practical problems <br> that involve all of the <br> above |  | - Can solve problems involving place value, <br> including word problems and problems <br> linked to money and measure |
| :--- | :--- | :--- |
| Read Roman numerals <br> to $1000(m)$ and <br> recognise years written <br> in roman numerals. |  | - Can use Roman numerals to 100 to begin to <br> derive Roman numerals to 1000 |
| - Can recognise years written in Roman |  |  |
| Numerals |  |  |


| Block 2 |  |  |  |
| :---: | :---: | :---: | :---: |
| Addition and Subtraction |  |  |  |
| Substantive Knowledge <br> National Curriculum | Ready to Progress | Key Performance Indicators | Sequence of learning <br> Detailed in Planning Overview |
| Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) |  | - Can solve THTU + THTU (bridging 10 and 100) <br> - Can solve THTU - THTU (bridging 10 and 100) <br> - Can use a formal written method to add money and measure using decimal notation to tenths <br> - Use a formal written method to add money and measure using decimal notation to hundredths <br> - Use a formal written method to add units of measure using decimal notation to hundredths | *Recap all mental strategies from Year 4 <br> *Add and subtract numbers mentally with increasingly large numbers - scaling facts <br> *Add and subtract numbers mentally with increasingly large numbers - using place value to calculate <br> *Add and subtract numbers mentally with increasingly large numbers - using partitioning to calculate <br> *Add and subtract numbers mentally with increasingly large numbers - bridging <br> *Add and subtract numbers mentally with increasingly large numbers - reordering <br> *Add and subtract numbers mentally with increasingly large numbers - fact families and inverse operations <br> *Use rounding to check answers to calculations and determine, in the context of the problem, levels of accuracy <br> *Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) <br> *Selecting efficient methods <br> *Solving word problems |
| Add and subtract numbers mentally with increasingly large numbers | NF-2 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth) | - Can add and subtract increasing large numbers using a variety of strategies <br> - Doubling, Partitioning, Reordering, Bridging through a multiple of 10 <br> - Can add and subtract simple decimals mentally e.g. $0.25+0.5$ |  |
| Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy |  | - Can estimate the answer up to 4 digits by rounding |  |
| Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why |  | - Can use addition and/or subtraction strategies to solve a complex problem <br> - Use the inverse to check the answer <br> - Solve problems including those with more than one step <br> - Solve open-ended investigations using a variety of units of measure |  |


| Block 3 |  |  |  |
| :---: | :---: | :---: | :---: |
| Multiplication and Division |  |  |  |
| Substantive Knowledge <br> National Curriculum | Ready to Progress | Key Performance Indicators | Sequence of learning Detailed in Planning Overview |
| Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers | MD-2 Find factors and multiples of positive whole numbers, including common factors and common multiples, and express a given number as a product of 2 or 3 factors. | - Can identify multiples of a number <br> - Can systematically find all factor pairs of a 2digit number <br> - Can identify common factors in two 2-digit numbers <br> - Can explain the relationship between a factor and a multiple | *Introduction/Times Tables <br> *Related facts <br> *Multiplying a number by 10, 100 and 1000 <br> *Dividing a number by 10, 100 and 1000 <br> *Doubling and halving relationship in multiplication and division |
| Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers |  | - Understands the definition of prime number <br> - Can break a number down into prime factors <br> - Understands the definition of a composite number | *Associative Law <br> *Distributive Law <br> *Multiples <br> *Common Multiples <br> *Factors |
| Establish whether a number up to 100 is prime and recall prime numbers up to 19 |  | - Can identify prime numbers to 100 <br> - Can recall prime numbers to 19 <br> - Can explain why a number is prime | discuss that these have an odd number of factors <br> *Cubed numbers <br> *Build arrays for prime numbers and establish what makes these numbers |
| 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 | MD-3 Multiply any whole number with up to 4 digits by any one-digit number using a formal written method. | - Can use a formal written method to multiply ThHTU by U <br> - Can use a formal written method to multiply TU by TU <br> - Can use a formal written method to multiply HTU by TU <br> - Can use a formal written method to multiply ThHTU by TU | prime <br> * Substantial problem involving investigating factors, prime and square numbers <br> *Formal written strategy for multiplication <br> * Formal written strategy for division <br> *Interpret remainders within division problems |

## Year 5 - Mathematics Intent

| Multiply and divide numbers mentally drawing upon known facts | NF-1 Secure fluency in multiplication table facts, and corresponding division facts, through continued practice <br> NF-2 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth) <br> MD-1 Multiply and divide numbers by 10 and 100; understand this as equivalent to making a number 10 or 100 times the size, or 1 tenth or 1 hundredth times the size. | - Quickly recall multiplication and division facts to $12 \times 12$ <br> - Use knowledge of times tables to multiply and divide by multiples of 10 <br> - Use knowledge of times tables to multiply and divide by multiples of 100 <br> - Use knowledge of times tables to multiply and divide by multiples of 1000 <br> - Can multiply multiples of 10 by multiples of 10 <br> - Can multiply multiples of 10 by multiples of 100 <br> - Can use rounding to estimate answers to larger multiplication or division calculations <br> - Can use factors to calculate other multiplication facts e.g. $17 \times 6=17 \times 3 \times 2$ | * Solving problems involving multiplication and division (using mental and written strategies, scaling and simple ratio) |
| :---: | :---: | :---: | :---: |
| 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 | MD-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. | - Can use a formal written method to divide TU by U <br> - Can use a formal written method to divide HTU by U <br> - Can use a formal written method to divide ThHTU by U <br> - Can explain what a remainder is <br> - Understands the meaning of a remainder in a context and interpret appropriately |  |
| Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 |  | - Understand the effect of multiplying by 10,100 and 1000 <br> - Understand the effect of dividing by 10,100 and 1000 |  |

## Year 5 - Mathematics Intent

| Recognise and use square numbers and cube numbers, and the notation for squared <br> ${ }^{(2)}$ and cubed ( ${ }^{3}$ ) |  | - Understand how to square a number and the notation for squared <br> - Can recognise square numbers <br> - Can link knowledge of square numbers to area <br> - Understands how to cube a number and the notation for cubed <br> - Can recognise cube numbers <br> - Can link knowledge of cube numbers to volume |
| :---: | :---: | :---: |
| Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes |  | - Can solve problems that link children's understanding of prime numbers, composite numbers, factors and multiples e.g. complete partial multiplication pyramid using knowledge of factors and multiples <br> - Can solve multiplication and division problems linked to measurement using children's knowledge of squared and cubed numbers |
| Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign |  | - Can decide on which operations and methods are needed to solve a given problem <br> - Can use appropriate strategies to solve a problem <br> - Can recognise the equals sign as a balancing symbol e.g. $3 \times 8=5+$ ? |
| Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple ratio. |  | - Can solve problems that involve scaling e.g. reducing a recipe for more/less people <br> - Can solve simple ratio problems e.g. making paint to a given formula |


| Block 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Fractions |  |  |  |
| Substantive Knowledge <br> National Curriculum | Ready to Progress | Key Performance Indicators | Sequence of learning Detailed in Planning Overview |
| Compare and order fractions whose denominators are all multiples of the same number |  | - Can convert fractions using multiples to have the same denominator. <br> - Understands the effect of a denominator increasing in multiples. <br> - Compare and order mixed and improper fractions | *Recap the language of fractions and representations of fractions <br> *Use a fractions wall to establish some simple equivalences <br> *Explore the relationships between fractions that are equivalent |
| Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths | F-2 Find equivalent fractions and understand that they have the same value and the same position in the linear number system. | - Understands that numbers can have a different representation but have generally the same meaning. | *Use multiplication to find a family of equivalent fractions when given a starting fraction <br> *Order and compare fractions where the denominators are all multiples of each other applying equivalent fractions understanding <br> *Explore mixed numbers and improper fractions by continuing a fraction count across |
| Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number |  | - Understands a fraction can be more than one <br> - Understands that when the numerator is more than the denominator it is more than one whole. <br> - Understands fractions can be represented as a mixed number and an improper fraction. | 2 fraction walls or a number line that extends beyond 1 <br> *Position mixed numbers and improper fractions on a number line <br> *Convert converting improper fractions to mixed numbers <br> *Calculating non unit fraction of quantities <br> *Add fractions with the same denominator and denominators are multiples of the same |
| Add and subtract fractions with the same denominator and denominators that are multiples of the same number |  | - Can use common multiples to convert fractions to have the same denominator. <br> - Can add and subtract fractions <br> - Can convert answers using mixed and improper fractions. <br> - Can mentally add and subtract $\frac{1}{10}$ s | number <br> *Subtract fractions with the same denominator and denominators are multiples of the same number <br> *Multiply proper fractions and mixed numbers by a whole number using models and images to support |

Year 5 - Mathematics Intent

| Multiply proper <br> fractions and mixed <br> numbers by whole <br> numbers, supported by <br> materials and <br> diagrams | - Can multiply together fractions with common <br> denominators <br> Can use a number line to represent multiplying a fraction <br> as repeated addition. <br> Understands when multiplying by a fraction the answer <br> is smaller. |  |
| :--- | :--- | :--- |
|  | 5F-1 Find non-unit <br> fractions of quantities |  |


| Block 5 |  |  |  |
| :---: | :---: | :---: | :---: |
| Decimals and Percentages |  |  |  |
| Substantive Knowledge <br> National Curriculum | Ready to Progress | Key Performance Indicators | Sequence of learning Detailed in Planning Overview |
| Read and write decimal numbers as fractions | F-3 Recall decimal fraction equivalents for $\frac{1}{2}, \frac{1}{4}, \frac{1}{5}$, and $\frac{1}{10}$ and for multiples of these proper fractions. | - Can convert decimals to fractions <br> - Can explain the value of each part of a decimal and explain the fraction equivalence. | *Understand tenths and hundredths and the relationship between them *Teachers discretion to move thousandths to here instead of later in the unit |
| Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents | NPV-1 Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of O.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. | - Can identify and calculate $\frac{1}{1000}$ as a decimal <br> - Can identify the pattern when finding other thousandths <br> - Can compare thousandths to tenths and hundredths. | *Partitioning and recombining decimal numbers <br> *Compare decimals <br> *Position decimal numbers on a number line <br> *Rounding decimals <br> *Mental addition of decimals <br> *Mental subtraction of decimals |
| Round decimals with two decimal places to the nearest whole number and to one decimal place | NPV-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. | - Understands the rules of rounding up and down. <br> - Can apply the rules of rounding to a whole number <br> - Can apply the rules of rounding to 1dp. <br> - Can identify which value is closer to a given number. | *Written addition of decimals <br> *Written subtraction of decimals <br> *Multiply and divide by 10, 100 and 1000 <br> *Multiply and divide numbers mentally drawing upon known facts <br> *Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. Teachers may decide to cover |
| Read, write, order and compare numbers with up to three decimal places | NPV-2 Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and non-standard partitioning. <br> NPV-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. | - Understands how thousandths are represented as a decimal. <br> - Can order numbers to 3dp. | this earlier in the unit if children's understanding of hundredths is secure. *Solve problems involving numbers up to 3 decimal places <br> *Read and write decimal numbers as fractions <br> *Recognise and write percentages <br> *Recognise equivalent percentages, fractions and decimals *Finding percentages of amounts |

## Year 5 - Mathematics Intent

| Solve problems involving number up to three decimal places |  | - Can solve problems involving measure |
| :---: | :---: | :---: |
| 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 |  | - Understand $1 \%$ is 1 part out of 100 <br> - Can write the decimal equivalent to $1 \%$ <br> - Understand percentage as a number out of 100. <br> - Can write percentages as a fraction with denominator 100 <br> - Can use $1 \%$ to calculate $10 \%, 5 \%, 50 \%$ and 100\% |
| Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{2}{5}$, and $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25 . |  | - Can use the pattern to calculate other multiples of known percentages. <br> - Has a good recall of the percentage, fraction and decimal equivalence of $\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{2}{5}$, and $\frac{4}{5}$ <br> - Has a good recall of the percentage and decimal equivalence of fractions with a denominator of a multiple of 10 or 25 . |


| Block 6 |  |  |  |
| :---: | :---: | :---: | :---: |
| Geometry |  |  |  |
| Substantive Knowledge <br> National Curriculum | Ready to Progress | Key Performance Indicators | Sequence of learning Detailed in Planning Overview |
| Identify 3-D shapes, including cubes and other cuboids, from 2-D representations |  | - Can name 3D shapes from pictures <br> - Can identify the 3D shapes represented by 2D nets <br> - Can identify nets of open and closed cubes | *Introduction and recap of previous learning <br> *Know angles are measured in degrees <br> *Estimate and compare acute, obtuse and reflex angles <br> * Draw given angles, and measure them in degrees ( ${ }^{\circ}$ ) |
| Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles | G-1 Compare angles, estimate and measure angles in degrees $\left({ }^{\circ}\right)$ and draw angles of a given size. | Can explain that angles are measured in degrees <br> - Can identify acute, obtuse and reflex angles <br> - Can estimate the size of acute, obtuse and reflex angles <br> - Can compare and order a set of angles | * 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 $90^{\circ}$ <br> *Use the properties of rectangles to deduce related facts and find missing lengths and angles |
| Draw given angles, and measure them in degrees $\left({ }^{\circ}\right)$ | G-1 Compare angles, estimate and measure angles in degrees ( ${ }^{\circ}$ ) and draw angles of a given size. | - Can use a protractor to measure angles accurately in degrees both on their own and within shapes <br> - Can draw given angles using a protractor | based on reasoning about equal sides and angles. *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. <br> *Identify 3-D shapes, including cubes and other |
| 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 $90^{\circ}$ |  | - Can recognise that angles at a point make a whole turn and total $360^{\circ}$ <br> - Can recognise that angles on a straight line make half a turn and total $180^{\circ}$ <br> - Can recognise multiples of $90^{\circ}$ within turns <br> - Can calculate missing angles in a range of contexts | cuboids, from 2-D representations |

## Year 5 - Mathematics Intent

$\left.\begin{array}{|l|l|l|}\hline \begin{array}{l}\text { Use the properties of rectangles } \\ \text { to deduce related facts and } \\ \text { find missing lengths and angles }\end{array} & & \begin{array}{l}\text { - Can describe that a rectangle has two } \\ \text { pairs of equal and parallel sides } \\ \text { - Can describe that a rectangle has four } \\ \text { right-angles }\end{array} \\ \text { - Can explain why a square is a type of } \\ \text { rectangle } \\ \text { - Can find missing lengths of rectangles } \\ \text { - Can identify the diagonals of rectangles } \\ \text { - Can make suggestions about the size of } \\ \text { angles formed between the parallel sides } \\ \text { of a rectangle and its diagonals } \\ \text { Can use the fact that the angle sum of a } \\ \text { quadrilateral is } 360^{\circ} \text { to make suggestions } \\ \text { about the size of the angles formed } \\ \text { between the sides of quadrilaterals }\end{array}\right\}$

| Block 7 |  |  |  |
| :---: | :---: | :---: | :---: |
| Measure - Length, Mass and Capacity |  |  |  |
| Substantive Knowledge <br> National Curriculum | Ready to Progress | Key Performance Indicators | Sequence of learning Detailed in Planning Overview |
| Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) | NPV-5 Convert between units of measure, including using common decimals and fractions. | - Can use their knowledge of place value and multiplication and division by 10, 100 and 1000 to convert between standard units <br> - Can decide on the appropriate measure to record their answer <br> - Can understand the decimal notation of units of measure. | *Recap what is known about metric measures - how many g in a $\mathrm{kg}, \mathrm{ml}$ in a $\mathrm{l}, \mathrm{cm}$ in a m , etc <br> *Convert between different units of metric measure, including decimals and fractions <br> *Understand and use approximate equivalences between metric units and common imperial units and convert between them <br> * Estimate volume [for example, using $1 \mathrm{~cm}^{3}$ blocks to build cuboids (including cubes)] and capacity [for example, using water] <br> *Use addition and subtraction to solve problems involving measure <br> *Use multiplication and division to solve problems involving measure <br> *Consolidation through topic and real-life situations |
| Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints |  | - Can convert between familiar imperial units of measure and metric measure <br> - 1 litre is approximately 2 pints (more accurately, $13 / 4$ pints) <br> - 4.5 litres is approximately 1 gallon or 8 pints <br> - 1 kilogram is approximately 2 lb (more accurately, 2.2 lb ) <br> - 30 grams is approximately 1 oz <br> - 8 kilometres is approximately 5 miles <br> - Can compare imperial units to metric units of measure by converting units into the same unit of measure. |  |
| Estimate volume [for example, using $1 \mathrm{~cm}^{3}$ blocks to build cuboids (including cubes)] and capacity [for example, using water] |  | - Can find volumes of regular and irregular 3D shapes using cubes. <br> - Can identify shapes /containers with a similar volume. <br> - Can record volume using $\mathrm{cm}^{3}$ |  |
| Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling. |  | - Can solve problems involving a variety of measures. <br> - Can convert appropriately between measures to help solve the problem |  |


| Block 8 |  |  |  |
| :---: | :---: | :---: | :---: |
| Measure - Perimeter and Area |  |  |  |
| Substantive Knowledge <br> National Curriculum | Ready to Progress | Key Performance Indicators | Sequence of learning Detailed in Planning Overview |
| Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres |  | - Can divide a composite shape into rectangles and calculate the perimeter of each shape. <br> - Can recombine shapes and calculate the perimeter of shapes. <br> - Can find missing lengths of a shape if given a perimeter. | *Recap perimeter and look at the perimeter of regular shapes <br> *Find missing lengths of a shape if given the total perimeter <br> *Find the perimeter of a composite rectilinear shape by breaking it down into smaller shapes <br> * Recap area and counting the squares in a shape to find its area <br> *Understand why we use the notation cm squared when recording the area of a shape |
| 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 | G-2 Compare areas and calculate the area of rectangles (including squares) using standard units. | - Can use the formula, $\mathrm{L} \times \mathrm{W}$ to calculate area. <br> - Understands why the answer is the unit squared. <br> - Can find shapes that have a set area. <br> - Can calculate area from scaled drawings | *Use the formula LxW to calculate the area of a shape using $\mathrm{cm}^{2}$ <br> *Use a scaled drawing to calculate the area of other regular polygons <br> *Estimate the area of irregular shapes |


| Block 9 |  |  |  |
| :---: | :---: | :---: | :---: |
| Measure - Time |  |  |  |
| Substantive Knowledge <br> National Curriculum | Ready to Progress | Key Performance Indicators | Sequence of learning Detailed in Planning Overview |
| Solve problems involving converting between units of time | NPV-5 Convert between units of measure, including using common decimals and fractions. | - Can use all four operations in problems involving time, including conversions | *Introduction <br> *Solve problems involving telling the time <br> *Solve problems involving converting between units of time <br> *Solve problems involving calculating durations of events <br> *Apply telling the time and calculating durations of events to reading timetables |


| Block 10 |  |  |  |
| :---: | :---: | :---: | :---: |
| Statistics |  |  |  |
| Substantive Knowledge <br> National Curriculum | Ready to Progress | Key Performance Indicators | Sequence of learning Detailed in Planning Overview |
| Solve comparison, sum and difference problems using information presented in a line graph | No specific Ready to Progress statements for Money but use the opportunity to consolidate prior statements as appropriate e.g NPV-4 Divide 1 into $2,4,5$ and 10 equal parts, and read scales/number lines marked in units of 1 with 2, | - Can answer questions that involve comparing the values between two points on a line graph e.g. When does the temperature rise the quickest? <br> - Can answer questions that involve finding the difference between two points on a line graph e.g. By how much does the temperature rise between 1 and 2pm <br> - Can answer questions that involve finding the sum of values on a line graph e.g. How far did the lorry driver travel in total? | *Introduction <br> *Solve comparison, sum and difference problems using information presented in a line graph <br> *Substantial problem linked to a line graph <br> *Complete, read and interpret Information in tables, including timetables |
| Complete, read and interpret information in tables, including timetables | 4,5 and 10 equal parts. | - Can answer questions that involve timetables e.g. How long does the journey from Chester to Northwich take on the bus? <br> - Can answer questions linked to information presented in tables |  |

