|  | Term 1 | Term 2 |
| :---: | :---: | :---: |
| Unit Focus | Place Value (3 wks) Addition and subtraction <br> (2wks) | Multiplication and division (6wks) $\quad \begin{gathered}\text { Measurement: Area and } \\ \text { perimeter (2wks) }\end{gathered}$ |
| Priority (RTP's) | - 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 . | - 5MD-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. <br> - 5MD-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. <br> - 5MD-3 Multiply any whole number with up to 4 digits by any one-digit number using a formal written method. <br> - 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. <br> - 5NF-1 Secure fluency in multiplication table facts, and corresponding division facts, through continued practice. <br> - 5NF-2 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth). <br> - 5G-2 Compare areas and calculate the area of rectangles (including squares) using standard units. |
| National Curriculum | Place Value <br> - read, write, order and compare numbers to at least 1 000000 and determine the value of each digit <br> - count forwards or backwards in steps of powers of 10 for any given number up to 1000000 <br> - interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero <br> - round any number up to 1000000 to the nearest 10 , 100, 1000, 10000 and 100000 <br> - solve number problems and practical problems that involve all of the above <br> - read Roman numerals to 1000 (M) and recognise years written in Roman numerals. <br> Fractions <br> - recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents <br> Addition and Subtraction <br> - 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 <br> - use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy <br> - solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. | Multiplication and division <br> - identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers <br> - know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers <br> - establish whether a number up to 100 is prime and recall prime numbers up to 19 <br> - 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 <br> - multiply and divide whole numbers and those involving decimals by 10,100 and 1000 <br> - recognise and use square numbers and cube numbers, and the notation for squared ( ${ }^{2}$ ) and cubed $\left({ }^{3}\right)$ <br> - solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes <br> - solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign <br> - solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. <br> Measurement: Area and perimeter <br> - measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres <br> - calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes |


|  | Term 1 | Term 2 |
| :---: | :---: | :---: |
| Mental maths | - recognise the place value of each digit up to 1,0000 and to 2 decimal places. <br> - what must be added to any four digit number to make the next multiple of 1000 , e.g. $4087+$ ? $=5000$ <br> - what must be added to a decimal with units and tenths to make the next whole number e.g. $7.2+$ ? $=8$ <br> - count forwards/backwards in steps of powers of 10 for any number up to 1,000,000 e.g. 56,892, 56,992, 57, 092. <br> - count forwards/backwards with positive and negative numbers including through 0 . <br> - read Roman Numerals to 1,000 (M) | -add or subtract a pair of two-digit numbers or three-digit multiples of 10, e.g. $38+86,620-380,350+$ 360 <br> - partition: double and adjust <br> - squares to $12 \times 12$ <br> - division facts corresponding to tables up to $12 \times 12$, and the related unit fractions, e.g. $7 \times 9=63$ so oneninth of 63 is 7 and one seventh of 63 is 9 <br> - factor pairs to 100 <br> - apply rules of divisibility for 3, 9, 4 and 8 times table. <br> - find the remainder after dividing a two-digit number by a single digit number, e.g. $27 \div 4=6 \mathrm{R} 3$ <br> - use knowledge of doubles/halves and understanding of place value, e.g. when multiplying by 50 multiply by 100 and divide by 2 <br> - recall all prime numbers to 19 . |
| Times tables | - Recall multiples of 3,4 and 8 up to $12 x$ in any order, including missing numbers and related division facts fluently. <br> - Fluently count in 6 's in order up to $12 \times 6$, using multiples of 3 to support. | - Recall multiples of 6 in any order, including missing numbers and related division facts with growing fluency. <br> - Fluently count in 7's in order up to $12 \times 7$. <br> - find factor pairs for numbers to 100 , e.g. 30 has the factor pairs $1 \times 30,2 \times 15,3 \times 10$ and $5 \times 6$ |
| Retrieval (Quick starter) | Geometry | Measurement: including money and time. |
| Covid Recovery | - Compares and classifies geometric shapes, including quadrilaterals and triangles, based on their properties and sizes <br> - acute and obtuse angles and compare and order angles up to two right angles by size <br> - Identifies 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. | - find the effect of dividing a one- or two-digit number by 10 and 100, <br> - identifying the value of the digits in the answer as ones, tenths and hundredths |


|  | Term 3 | Term 4 |
| :---: | :---: | :---: |
| Unit Focus | Fractions (4wks) | Fractions, decimals and percentages (7wks) ${ }^{\text {( }}$ Assessment |
| Priority | - 5F-1 Find non-unit fractions of quantities <br> - 5F-2 Find equivalent fractions and understand that they have the same value and the same position in the linear number system. <br> - 5NPV-2 Recognis decompose numb <br> - 5NPV-3 Reason a including identifyi <br> - 5NPV-4 Divide 1 i 10 equal parts. <br> - 5F-3 Recall decim | - 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 2 decimal places using standard and nonstandard partitioning. <br> - 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. <br> - 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. <br> - 5F-3 Recall decimal fraction equivalents for $1 / 2,1 / 4,1 / 5$, and $1 / 10$ and for multiples of these proper fractions. |
| National Curriculum | Fractions - compare and order fractions whose denominators are all multiples of the same number <br> - identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths <br> - recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements $>1$ as a mixed number [for example, $52+54=$ $56=151$ ] <br> - 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 <br> Fractions, Decim <br> - read and write d <br> - round decimals <br> - read, write, orde <br> - recognise and us <br> - solve problems in <br> - recognise the pe write percentage <br> - solve problems w fractions with a | Fractions, Decimals and percentages <br> - read and write decimal numbers as fractions [for example, $0.71=10071$ ] <br> - 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 <br> - recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents <br> - solve problems involving number up to three decimal places <br> - recognise the per cent symbol (\%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100 , and as a decimal <br> - solve problems which require knowing percentage and decimal equivalents of $1 / 2,1 / 4,1 / 5,2 / 5,4 / 5$ and those fractions with a denominator of a multiple of 10 or 25 . |
| Mental maths | - count up/down in thousandths. <br> - count on or back in hundreds, tens, ones and tenths <br> - subtract by counting up from the smaller to the larger number <br> - add or subtract a multiple of 10 or 100 and adjust e.g. $4,678-2,998=4,678-3,000$ <br> +2) <br> - add or subtract a near multiple of 10 or 100 to any two-digit or three digit number, <br> e.g. $235+198$ <br> - find the difference between near multiples of 100 , e.g. $607-588$, or of 1000 , e.g. 6070-4087 <br> - add and subtract decimal numbers which are near multiples of 1 or 10 including money e.g. $£ 6.34-£ 1.99$. | - doubles and halves of decimals, e.g. half of 5.6, double 3.4 <br> - add or subtract any pairs of decimal fractions each with units and tenths, e.g. 5.7 $+2.5,6.3-4.8$ <br> - partition: add hundreds, tens or ones separately, then recombine <br> - percentage equivalents of one half, one-quarter, three-quarters, tenths and hundredths <br> - find fractions of whole numbers or quantities, e.g. 23 of 27,45 of 70 kg <br> - find $50 \%, 25 \%$ or $10 \%$ of whole numbers or quantities, e.g. $25 \%$ of $20 \mathrm{~kg}, 10 \%$ of $£ 80$ <br> - read and write decimal numbers as fractions e.g. $0.71=71 / 100$ |
| Times tables | - Recall multiples of 6 in any order, including missing numbers and related division facts fluently. <br> - Recall multiples of 7 in any order, including missing numbers and related division facts with growing fluency. | - Recall multiples of 7 in any order, including missing numbers and related division facts fluently. <br> - Fluently count in 9's in order up to $12 \times 9$. <br> - Fluently count in 11 's in order up to $12 \times 11$. |
| Retrieval (Quick starter) | Addition, subtraction, multiplication and division | Place Value |
| Covid Recovery | - Counts up and down in hundredths; recognises that hundredths arise when dividing an object by one hundred and dividing tenths by ten. | - Rounds decimals with one decimal place to the nearest whole number <br> - compare numbers with the same number of decimal places up to two decimal places <br> - recognise and write decimal equivalents of any number of tenths or hundredths <br> - recognise and write decimal equivalents to $1 / 2,1 / 4$ and $3 / 4$ <br> - Solves simple measure and money problems involving fractions and decimals to two decimal places |


|  | Term 5 | Term 6 |
| :---: | :---: | :---: |
| Unit Focus | Statistics (2wks) Geometry: Properties of shape <br> (4wks) | Geometry: Position and <br> direction (2wks)$\quad$Measure - length, weight, mass <br> converting units, volume, time. (4wks)$\quad$ Assessment |
| Priority | - 5G-1 Compare angles, estimate and measure angles in degrees ( ${ }^{\circ}$ ) and draw angles of a given size. | - 5NPV-5 Convert between units of measure, including using common decimals and fractions. |
| National Curriculum | Statistics <br> - solve comparison, sum and difference problems using information presented in a line graph <br> - complete, read and interpret information in tables, including timetables. Geometry: Properties of shape <br> - identify 3-D shapes, including cubes and other cuboids, from 2-D representations <br> - know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles <br> - draw given angles, and measure them in degrees ( ${ }^{\circ}$ ) <br> - identify: <br> - angles at a point and one whole turn (total $360^{\circ}$ ) <br> - angles at a point on a straight line and 21 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 <br> - distinguish between regular and irregular polygons based on reasoning about equal sides and angles. | Geometry: Position and direction <br> - 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. Measurement <br> - convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) <br> - understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints <br> - estimate volume [for example, using $1 \mathrm{~cm}^{3}$ blocks to build cuboids (including cubes)] and capacity [for example, using water] <br> - solve problems involving converting between units of time <br> - use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling. <br> Multiplication and division <br> - recognise and use square numbers and cube numbers, and the notation for squared ( ${ }^{2}$ ) and cubed( ${ }^{3}$ ) |
| Mental maths | - identify angles in a whole turn (360o) <br> - identify angles on a straight line (180o) <br> - calculate sums and differences of decimals, e.g. 6.5 + 2.7, 7.8-1.3 <br> - use knowledge of place value and related calculations, e.g. 6.3-4.8 using 63-48 | - convert between units of measure e.g. km to $\mathrm{m}, \mathrm{cm}$ to $\mathrm{m}, \mathrm{I}$ to ml , <br> - Use equivalences between metric and imperial units e.g. inches, pounds, pints. <br> -Recognise and understand the square numbers and cube numbers, and the notation for squared <br> $\left(^{2}\right.$ ) and cubed ( ${ }^{3}$ ) <br> - partition: count on or back in minutes and hours, bridging through 60 (analogue and digital times |
| Times tables | - Recall multiples of 9 in any order, including missing numbers and related division facts with growing fluency (using 10x and adjusting by 1 group to find $9 x$ as a strategy) <br> - Recall multiples of 11 in any order, including missing numbers and related division facts fluently. <br> - Fluently count in 12 's in order up to $12 \times 12$. | - Recall multiples of 9 in any order, including missing numbers and related division facts fluently. <br> - Recall multiples of 12 in any order, including missing numbers and related division facts with growing fluency (using 10x and adjusting by adding 2 more groups). |
| Retrieval (Quick starter) | Fractions | Statistics |
| Covid Recovery | - interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. <br> - solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. | - describe positions on a 2D 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 <br> - Convert between different units of measure (Only hour to minute) <br> - estimate, compare and calculate different measures- Only money in pounds and pence |

## Ongoing through the times table focused group teaching sessions

- 5NF-1 Secure fluency in multiplication table facts, and corresponding division facts, through continued practice.

Mental maths:

- multiply or divide by 4 or 8 by repeated doubling or halving
- form an equivalent calculation, e.g. to multiply by 5 , multiply by 10 , then halve; to multiply by 20 , double, then multiply by 10
- rules of divisibility

