## Year

## Small Steps Guidance and Examples

## Block 1: Place Value

## White RoseMaths

## Year 5 - Yearly Overview

|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { E } \\ & \substack{5 \\ \hline \\ \hline \\ \hline} \end{aligned}$ | Number - Place Value |  |  | Number - Addition and Subtraction |  | Statistics |  | Number Multiplication and Division |  | Perimeter and Area |  |  |
| $\begin{aligned} & \text { no } \\ & \text { no } \\ & \text { in } \end{aligned}$ | Number - Multiplication and Division |  |  | Number - Fractions |  |  |  |  |  | Number Decimals \& Percentages |  |  |
| $\begin{gathered} \text { 㐫 } \\ \stackrel{y}{5} \\ \stackrel{y}{5} \end{gathered}$ | Number - Decimals |  |  |  | Geometry- Properties of Shapes |  |  |  | MeasurementConverting Units |  |  | $\begin{aligned} & \hline \text { 들 } \\ & \text { 응 } \\ & \text { 응 } \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ |

## Year 5 - Autumn Term

| Week 1 Week 2 Week 3 | Week 4 Week 5 | Week 6 Week 7 | Week 8 Week 9 | Week 10 Week 11 | Week 12 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number - Place Value <br> Read, write, order and compare numbers to at least 1000000 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. | Number- Addition and Subtraction <br> Add and subtract numbers mentally with increasingly large numbers. <br> Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) 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. | 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. | Number - multiplication and division <br> Multiply and divide numbers mentally drawing upon known facts. <br> Multiply and divide whole numbers by 10,100 and 1000. <br> Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. <br> Recognise and use square numbers and cube numbers and the notation for squared $\left({ }^{2}\right)$ and cubed ( ${ }^{3}$ ) <br> Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. <br> Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. <br> Establish whether a number up to 100 is prime and recall prime numbers up to 19 | Perimeter and Area <br> Measure and calculate the perimeter of composite rectilinear shapes in cm and $m$. <br> Calculate and compare the area of rectangles (including squares), and including using standard units, $\mathrm{cm}^{2}, \mathrm{~m}^{2}$ estimate the area of irregular shapes. |  |

## WRM - Year 5 - Scheme of Learning 2.0

## Year 5 - Spring Term

| Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number - Multiplication and Division Multiply and divide numbers mentally drawing upon known facts. |  |  | Number: Fractions |  |  |  |  |  | Number: Decimals and Percentages |  |  |
|  |  |  | Compare and order fractions whose denominators are multiples of the same number. |  |  |  |  |  | Read, write, order and compare numbers with up to three decimal places. |  |  |
| Multiply numbers up to 4 digits by a one or two digit number using a formal |  |  | Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths. |  |  |  |  |  | places. |  |  |
| or two digit written met multiplicati | mber using , including or 2 digit nu | rmal ers. | 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 $\stackrel{2}{-} \stackrel{4}{=}=\underset{-}{=} 1$ ] |  |  |  |  |  | relate them to tenths, hundredths and decimal equivalents. |  |  |
|  |  |  |  |  |  |  | $\begin{array}{llll}5 & 5 & 5\end{array}$ |  |  |  |  |
| Divide num digit number method of | up to 4 dig ing the form $t$ division and | by a one written interpret | Add and subtract fractions with the same denominator and denominators that are multiples of the same number. |  |  |  |  |  | Round decimals with two decimal places to the nearest whole number and to one decimal place. |  | $\stackrel{C}{0}$ |
| remainders context. | ropriately f | he | Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. |  |  |  |  |  | Solve problems up to three deci | ing number aces. | - |
| Solve problems involving addition and |  |  | 71 |  |  |  |  |  |  |  | - |
| subtraction, multiplication and division and a combination of these, including |  |  | Read and write decimal numbers as fractions [ for example 0.71- ${ }_{100}$ ] |  |  |  |  |  | Recognise the per cent symbol (\%) and understand that per cent |  | $\stackrel{\square}{0}$ |
| understanding the use of the equals sign. |  |  | Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. |  |  |  |  |  | relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100 , and as a decimal. |  |  |
|  |  |  |  |  |  |  |  |  | Solve problems which require knowing percentage and decimal equivalents of $\begin{array}{llll}1 & 1 & 1 & 2 \\ 2^{\prime} & 4^{\prime} & 5^{\prime} & 5^{\prime} 5\end{array}$ and those fractions with a denominator of a |  |  |

multiple of 10 or 25.

## WRM - Year 5 - Scheme of Learning 2.0

## Year 5 - Summer Term

| Week 1 Week 2 $\quad$ Week 3 Week 4 | Week 5 Week 6 Week 7 | Week 8 | Week 9 Week 10 | Week 11 | Week 12 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number: Decimals <br> Solve problems involving number up to three decimal places. <br> Multiply and divide whole numbers and those involving decimals by 10,100 and 1000 . <br> Use all four operations to solve problems involving measure [ for example, length, mass, volume, money] using decimal notation, including scaling. | Geometry- Properties of Shapes and Angles Identify 3D shapes, including cubes and other cuboids, from 2D representations. <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. <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: angles at a point and one whole turn (total $360^{\circ}$ ), angles at a point on a straight line and $1 / 2$ a turn (total $180^{\circ}$ ) other multiples of $90^{\circ}$ | Geometryposition and direction 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- converting units <br> Convert between different units of metric measure [for example, km and $\mathrm{m} ; \mathrm{cm}$ and m ; cm and mm ; g and kg ; l and ml ] <br> Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. <br> Solve problems involving converting between units of time. | Measures <br> Volume <br> Estimate volume [for example using $1 \mathrm{~cm}^{3}$ blocks to build cuboids (including cubes)] and capacity [for example, using water] <br> Use all four operations to solve problems involving measure. |  |

