

# LPS Year 5 Autumn



| Place Value Whole Numbers<br>2 weeks  | Place Value Decimals<br>2 Weeks   | Addition and Subtraction<br>2 Weeks   | Perimeter<br>1 Week  | Properties of number<br>2 Weeks   | Multiply and divide powers of 10 – 1.5 week   | Known and related facts<br>1.5week                                   | Measure<br>1 Weeks  | Area Volume<br>1 week   | Consolidation<br>on 1 weeks   |
|---|---|---|--|---|---|--|---|---|---|
| <p>Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</p> <p>Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</p> <p>Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000</p> <p>Solve number problems and practical problems that involve all of the above</p> <p>Represent, order and compare<br/>Partition numbers<br/>Round numbers</p> | <p>Read and write decimal numbers as fractions [for example, 0.71 = 71/100]</p> <p>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</p> <p>Round decimals with two decimal places to the nearest whole number and to one decimal place</p> <p>Read, write, order and compare numbers with up to three decimal places</p> <p>Represent, order and compare<br/>Partition numbers<br/>Round numbers</p> | <p>Add and subtract numbers mentally with increasingly large numbers eg 5-digit – 4-digit multiple of 10</p> <p>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</p> <p>Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</p> <p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</p> <p>Add and subtract decimals up to 2 decimal places including mixed decimal calculation</p> <p>Mental calculation<br/>Column methods<br/>Decimals including mixed decimal</p> | <p>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</p> | <p>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers</p> <p>Know and use the vocabulary of prime numbers, prime factors, and composite (non-prime) numbers</p> <p>Establish whether a number up to 100 is prime and recall prime numbers up to 19</p> <p>Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)</p> <p>Factors (5 days)<br/>Square/prime/cubed</p> | <p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</p> | <p>Multiply and divide numbers mentally drawing upon known facts</p> | <p>Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)</p> <p>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints</p> <p>Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.</p> | <p>Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm<sup>2</sup>) and square metres (m<sup>2</sup>) and estimate the area of irregular shapes</p> <p>Estimate volume [for example, using 1 cm<sup>3</sup> blocks to build cuboids (including cubes)] and capacity [for example, using water]</p> | <p>Based on summative assessment teach to GAPS.</p> <p>Focus on blue objectives</p> |
|   |   | <p>15 000 + 38 000</p> <p>13 000 + 40 000</p> $\begin{array}{r} 55125 \\ - 37483 \\ \hline 17342 \end{array}$   | <p>Use cubes to make compound rectilinear shapes and explore perimeter</p>                           |   |   |  | <p>0.1 metre pieces x 10 for measure</p>  |   |   |
| Ten thousands, one hundred thousand, intergers  | Thousandths   |   |  | Factor Pair, square numbers   | Powers of   |  | Inch, pound, gallon, imperial   |   |   |

Make links to measurement across every number unit and statistics in place value and addition/subtraction  
 Include reasoning and problem solving in all units  
 Green statements are ready to progress, red is additional information, blue are key objectives

