

### Maths Unit Overview – Year 3 Autumn 1

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Place Value	Place Value	Addition/subtraction	Addition/subtraction	Multiplication/division	Multiplication/division	Multiplication/division
<p><b>SMALL STEPS</b></p> <ul style="list-style-type: none"> <li>To represent numbers to 100 using different models and images</li> <li>To partition numbers to 100 regularly</li> <li>To place numbers to 100 on a number line</li> <li>To understand and count in hundreds</li> <li>To represent numbers to 1000 using images and models</li> <li>To partition numbers to 1000 regularly</li> <li>To understand that a 4 digit number can be partitioned in multiple ways</li> <li>To represent numbers to 1000 with images and figures</li> <li>To use place value headings to find 1, 10 or 100 more or less than a number to 1000</li> <li>To place numbers to 1000 on a number line</li> <li>To estimate where a number is on a number line</li> <li>To compare two numbers up to 1000</li> <li>To order sets of numbers up to 1 000</li> <li>To be able to count in 50s and apply this skill in different representations</li> </ul>		<p><b>SMALL STEPS</b></p> <ul style="list-style-type: none"> <li>To apply number bonds within 10 to larger numbers</li> <li>To be able to add and subtract 1s from any number within 100</li> <li>To add and subtract 10s to any 3 digit number</li> <li>To be able to add and subtract any 3-digit number and a 3-digit multiple of 100</li> <li>To use an understanding of place value to spot patterns within numbers</li> <li>To add ones to 2-digit and 3-digit numbers, with exchanging</li> <li>To add tens to 2-digit and 3-digit numbers, with exchanging</li> <li>To subtract ones from 2-digit and 3-digit numbers, with exchanging</li> <li>To subtract tens from 2-digit and 3-digit numbers, with exchanging</li> <li>To partition numbers using a range of images and models</li> <li>To be able to add two numbers without exchange</li> <li>To be able to subtract two numbers without exchange</li> <li>To be able to add two numbers with exchanging</li> <li>To be able to add 2-digit and 3-digit numbers in different representations</li> <li>To be able to subtract a 2-digit from a 3-digit number with exchanging</li> <li>To recall and apply bonds to 100.</li> <li>To be able to estimate the answer to an addition or subtraction calculation using rounding</li> <li>To use inverse operations to make fact families, using 3-digit numbers.</li> <li>To apply addition and subtraction strategies to mixed problems.</li> </ul>		<p><b>SMALL STEPS</b></p> <ul style="list-style-type: none"> <li>To understand that multiplication is a number of equal sized groups</li> <li>To recognise and use arrays to represent the equal groups in multiplication</li> <li>To answer different styles of questions using 2 times table facts</li> <li>To answer different styles of questions using 5 and 10 times table facts</li> <li>To use a bar model to share and group numbers</li> <li>To be able to multiply by 3</li> <li>To be able to share between 3 and group in 3s</li> <li>To answer different styles of questions using the 3 times table facts</li> <li>To be able to multiply by 4</li> <li>To be able to share between 4 and group in 4s</li> <li>To answer different styles of questions using the 4 times table facts</li> <li>To be able to multiply by 8</li> <li>To be able to share between 8 and group in 8s</li> <li>To answer different styles of questions using the 8 times table facts</li> <li>To use 2, 4 and 8 times table facts to answer different styles of questions</li> <li>To use known multiples of 10 to solve problems beyond the 10 times table</li> <li>To find related multiplication and division facts from known facts</li> <li>To use an informal written method to multiply a 2-digit number by a 1-digit number, with exchange</li> <li>To use an informal method to multiply a 2-digit number by a 1-digit number, with no exchange</li> <li>Explain and start to use the formal method for multiplication</li> </ul>		

Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Fractions		Measure length (addition & subtraction focus)	Measure - mass (multiplication & division focus)	Measure - capacity (four operation focus)	Analogue time and Roman numerals to 12	Recap / assessment
<p><b>SMALL STEPS</b></p> <ul style="list-style-type: none"> <li>To understand that the denominator shows how many equal parts the whole has been divided into</li> <li>To compare and order unit fractions</li> <li>To know that non-unit fractions are made up of unit fractions</li> <li>To understand that when the numerator and denominator are the same, then this is a whole</li> <li>To compare and order fractions with the same denominator</li> <li>To identify fractions on a scale, in context</li> <li>To identify equal parts, on a number line, as fractions</li> <li>To count forwards and backwards in fractions, on a number line</li> <li>To find equivalent fractions by comparing number lines</li> <li>To use bar models to compare fractions and identify equivalents</li> <li>To add fractions with the same denominator</li> <li>To subtract fractions with the same denominator</li> <li>To split a whole in to unit and non-unit fractions</li> <li>To find unit fractions of a set of objects</li> </ul>		<p><b>SMALL STEPS</b></p> <ul style="list-style-type: none"> <li>To measure length using metres and centimetres</li> <li>To measure length using millimetres</li> <li>To measure length using centimetres, and centimetres and millimetres</li> <li>To understand the appropriateness of different units of measure</li> <li>To convert centimetres to metres and centimetres</li> <li>To convert millimetres to centimetres and millimetres</li> <li>To compare lengths</li> <li>To add lengths with the same units and different units</li> <li>To subtract lengths with the same units and different units</li> </ul>	<p><b>SMALL STEPS</b></p> <ul style="list-style-type: none"> <li>To investigate using scales to read measurements</li> <li>To measure mass in grams, identifying missing intervals on scales</li> <li>To read different scales used to measure mass in kilograms or gram</li> <li>To understand that one kilogram is equivalent to 1000 grams</li> <li>To compare the masses of objects using grams and kilograms</li> <li>To solve problems requiring multiplying and dividing mass</li> </ul>	<p><b>SMALL STEPS</b></p> <ul style="list-style-type: none"> <li>To investigate using scales to read measurements</li> <li>To read different scales used to measure liquid in millilitres</li> <li>To read different scales used to measure liquid in litres and millilitres</li> <li>To understand that one litre is equivalent to 1000 millilitres</li> <li>To estimate the relative capacity of objects and interpret scales to compare volume</li> <li>To solve problems requiring four operations in context of capacity and volume</li> </ul>	<p><b>SMALL STEPS</b></p> <ul style="list-style-type: none"> <li>To understand how the Roman numeral system works (1-12)</li> <li>Use 5 times table to tell time to 5 minutes</li> <li>To tell time to the minute</li> <li>To solve problems involving analogue time</li> <li>Record digital time from an analogue clock (a week is dedicated to digital later in year)</li> </ul>	