

Maths Unit Overview – Year 5

Autumn 1:

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Place Value		Addition/subtraction	Multiplication/division		Measure – money (apply 4 operation skills)	Time – conversion/interpret timetables
<p><b>SMALL STEPS</b></p> <ul style="list-style-type: none"> <li>To consolidate place value concepts in numbers to 10,000</li> <li>To be able to partition numbers to 100,000 using different representations</li> <li>To be able to partition numbers to a million</li> <li>To be able to represent numbers to a million in words and digits</li> <li>To be able to identify patterns when counting by adding on powers of 10</li> <li>To use an understanding of place value to find more or less.</li> <li>To partition numbers to a million</li> <li>To partition numbers to a million</li> <li>To be able to compare and order numbers to 100,000</li> <li>Round numbers to the nearest 10, 100 and 1000</li> <li>To round numbers within 100,000</li> </ul>		<p><b>SMALL STEPS</b></p> <ul style="list-style-type: none"> <li>To add numbers with more than four digits</li> <li>To subtract whole numbers with more than 4 digits</li> <li>To add and subtract decimal numbers with up to 3 places with exchanging</li> <li>To add decimal numbers with the same number of decimal places, with exchanging</li> <li>To subtract decimal numbers with the same number of decimal places with exchanging</li> <li>To add decimal numbers with a different number of decimal places, with exchanging</li> <li>To subtract decimal numbers with a different number of decimal places, with exchanging</li> </ul>	<p><b>SMALL STEPS</b></p> <ul style="list-style-type: none"> <li>To understand the effect when multiplying by powers of 10</li> <li>To understand the effect when dividing by powers of 10</li> <li>To use knowledge of the effect of multiplying and dividing by powers of 10 when multiplying and dividing by multiples of 10</li> <li>To use a formal written method to multiply number with up to 4-digits by a 1-digit number</li> <li>To use a formal written method to multiply a 2-digit number by a 2-digit number</li> <li>To use a formal written method to multiply a 3-digit number by a 2-digit number</li> <li>To use a formal written method to multiply a 4-digit number by a 2-digit number</li> <li>To use place value grids to support with formal short division strategy</li> <li>To use short division to divide numbers, with exchanges</li> <li>To use short division to divide numbers with remainders</li> <li>To identify which operation is needed in order to solve multiplication and division problems</li> </ul>		<p><b>SMALL STEPS</b></p> <ul style="list-style-type: none"> <li>To represent amounts in decimal notation</li> <li>To convert between pounds and pence</li> <li>To compare and order sets of amounts of money</li> <li>To estimate with amounts of money in different contexts</li> <li>To use informal methods to calculate money</li> <li>To solve problems involving money using the four operations</li> <li>To solve multi step problems</li> </ul>	<p><b>SMALL STEPS</b></p> <ul style="list-style-type: none"> <li>To convert units of time (weeks to days, minutes to hours etc)</li> <li>To interpret timetables</li> <li>Use timetables to solve problems</li> <li>Calculate duration using timetables</li> </ul>

Autumn 2:

Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Fractions		Decimals	Percentage	Measure length (including perimeter)	Measure – mass/capacity	Recap / assessment
<p>SMALL STEPS</p> <ul style="list-style-type: none"> <li>To identify and reason with equivalent fractions</li> <li>To convert improper fractions to mixed numbers</li> <li>To convert mixed numbers to improper fractions</li> <li>To compare and fractions less than 1</li> <li>To order fractions less than 1</li> <li>To compare and order fractions greater than 1</li> <li>To add and subtract fractions with the same denominator</li> <li>To add fractions with different denominators within 1</li> <li>To add fractions that total more than one</li> <li>Add a whole or a part to a mixed number</li> <li>To add two mixed numbers</li> <li>To subtract fractions with different denominators</li> <li>To subtract a part or a whole from a mixed number</li> <li>To subtract two mixed numbers</li> <li>To multiply unit fractions by an integer</li> <li>To multiply non-unit fractions by an integer</li> <li>To calculate unit and non-unit fractions of a quantity</li> <li>To recognise that a fraction of an integer is the same as the fraction multiplied by the integer</li> </ul>		<p>SMALL STEPS</p> <ul style="list-style-type: none"> <li>To use place value to understand numbers with up to 2 decimal places</li> <li>To explore equivalent fractions and decimals (tenths) within one</li> <li>To explore equivalent fractions and decimals (hundredths)</li> <li>To know equivalent fractions and decimals for halves, quarters, fifths and tenths</li> <li>To know that a thousandth is one split in to 1000 equal parts</li> <li>To understand thousandths as decimals in our number system</li> <li>To represent numbers with up to 3 decimal places on a place value chart</li> <li>To use place value to order and compare decimal numbers with up to 3 decimal places</li> <li>To use place value to order and compare decimal numbers with different amounts of decimal places</li> <li>To round numbers, with up to 2 dps, to the nearest whole number</li> <li>To round decimal numbers to the nearest tenth</li> <li><b>To multiply decimal numbers by 10, 100 and 1000</b></li> <li><b>To divide integers and decimal numbers by 10, 100 and 1,000</b></li> <li><b>To multiply and divide decimal numbers by 10, 100 and 1000</b></li> </ul>	<p>SMALL STEPS</p> <ul style="list-style-type: none"> <li>To understand percentages as parts out of 100</li> <li>To compare percentages to fractions, with a denominator of 100</li> <li>To find decimal equivalences to percentages</li> <li>To be able to give fraction, decimal and percentage equivalents</li> <li>Use equivalence of % to fractions/decimals to solve problems</li> </ul>	<p>SMALL STEPS</p> <ul style="list-style-type: none"> <li>To convert between metric and imperial units</li> <li>To convert units of metric length (mm, cm and m)</li> <li>To calculate the perimeter of a rectilinear shape from given measures</li> <li>To work out the perimeter of a rectilinear shape from given measures</li> <li>To use the perimeter of a shape to find a missing side</li> </ul>	<p>SMALL STEPS</p> <ul style="list-style-type: none"> <li>To convert between and kg and g</li> <li>Solve problems involving mass</li> <li>To convert between l and ml</li> <li>Solve problems involving capacity</li> <li>To estimate capacity of different containers</li> </ul>	