

Week	Objectives	Small Learning Steps
1	<b>Place Value</b> <ul style="list-style-type: none"> <li>Revise 3 digit numbers through contexts</li> <li>Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)</li> <li>Identify, represent and estimate numbers using different representations</li> </ul>	<ul style="list-style-type: none"> <li>Read and write numbers with 3 and 4 digits including money and measure</li> <li>Recognise the value of each digit in the number in context of money and measure</li> <li>Partition 4 digit numbers in lots of ways e.g. 3456 How many tens in this number? What is the value in the tens column? Know the difference between these two answers and why?</li> <li>Represent 3 and 4 digit numbers and explain why including on number lines, tables, different representations, part- part whole</li> <li>Estimate 3 and 4 digit numbers on number lines and blank number lines, through bar charts and pictograms</li> </ul>
2	<b>Place Value</b> <ul style="list-style-type: none"> <li>Order and compare numbers beyond 1000</li> <li>Estimate, compare different measures, including money in pounds and pence</li> <li>Round any number to the nearest 10, 100 or 1000</li> <li>Rounding within measure as above</li> </ul>	<ul style="list-style-type: none"> <li>Order 3 and 4 digit numbers in and out of context of measures</li> <li>Compare 3 and 4 digit numbers in and out of context of measures using &lt;&gt; signs</li> <li>Round 2 and 3 digit numbers to nearest 10</li> <li>Round 2 and 3 digit numbers to nearest 10 through context of measure – nearest £10, nearest 10cm etc, use of graphs</li> <li>Round 3 and 4 digit numbers to nearest 100</li> <li>Round 3 and 4 digit numbers to nearest 100 through context of measure – nearest £100, nearest 100cm etc, use of graphs</li> <li>Round 4 digit numbers to nearest 1000</li> <li>Round 4 digit numbers to nearest 1000 through context of measure – nearest £1000, nearest km, litre,kg etc, use of graphs</li> <li>Problem solve with the above</li> </ul>
3	<b>Place Value</b> <ul style="list-style-type: none"> <li>Count in multiples of 6, 7, 9, <b>25</b> and <b>1000</b></li> <li>Find 1000 more or less than a given number</li> </ul>	<ul style="list-style-type: none"> <li>Count up and back in multiples of 1000 including money and measure</li> <li>Count up and back in multiples of 1000 where start on a non 1000 multiple e.g. 5436 including money and measure</li> <li>Revise finding 100 more/100 less in context of money and measure</li> <li>Find 1000 more or less than a number including money, graphs and measure</li> <li>Find multiples of 1000 more/less than a number including money, graphs and measure</li> <li>Count up and back in 25s including money and measure</li> <li>Count up and back in multiples of 25 where start on a non 25 multiple e.g. 55 including money and measure</li> <li>Find 25 more or less than a number including money, graphs and measure</li> </ul>
4	<b>Addition and Subtraction</b> Add and subtract numbers mentally, including: <ul style="list-style-type: none"> <li>A four-digit number and ones</li> <li>A four-digit number and tens</li> <li>A four-digit number and hundreds</li> <li>A four- digit number and thousands</li> </ul> <ul style="list-style-type: none"> <li>Find 1000 more or less than a given number</li> </ul>	<ul style="list-style-type: none"> <li>Revise mental addition of a 2 digit and 3 digit number non regrouping</li> <li>Revise adding 3 two digit numbers</li> </ul> Add and subtract numbers mentally, including: <ul style="list-style-type: none"> <li>A four-digit number and ones</li> <li>A four-digit number and tens</li> <li>A four-digit number and hundreds</li> <li>A four- digit number and thousands</li> </ul> Including in a range of measures contexts and statistics contexts e.g. graph or table of results <ul style="list-style-type: none"> <li>Use of estimation and rounding within mental calculation</li> </ul>

<p>5/6</p>	<p><b>Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li> <li>Estimate and use inverse operations to check answers to a calculation</li> <li>Calculate different measures, including money in pounds and pence</li> </ul>	<ul style="list-style-type: none"> <li>Revise written addition for 3 and 3 digit numbers no crossing boundary and 3 digit + 2 digit crossing boundary of tens or hundreds</li> <li>Revise number families <math>345 + 233 = 578</math> what else so I know...include estimation of calculation link back to rounding.</li> <li>Revise above in context of measure.</li> <li>Extend to 3 digit and 3 digit crossing tens boundary</li> <li>Extend to 3 digit and 4 digit addition</li> <li>Written addition with empty boxes to check calculation methods</li> <li>Checking addition calculations by rounding and estimation</li> <li>Measures problems using written addition both 1 step and 2 step</li> <li>Revise written subtraction for 3 and 2 digit numbers with and without exchanging ones, tens and hundreds</li> <li>Revise number families <math>349 - 233 = 116</math> what else so I know...include estimation of calculation link back to rounding.</li> <li>Revise above in context of measure.</li> <li>Extend to 3 digit and 3 digit subtraction with exchanging</li> <li>Extend to 3 digit and 4 digit subtraction with and without exchanging</li> <li>Written subtraction with empty boxes to check calculation methods</li> <li>Checking subtraction calculations by rounding and estimation</li> <li>Measures problems using written subtraction both 1 step and 2 step</li> <li>Addition and subtraction mixed problems from extracting information from a chart or table</li> </ul>
<p>7</p>	<p><b>Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>Count in multiples of <b>6, 7, 9, 25 and 1000</b></li> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li> </ul>	<ul style="list-style-type: none"> <li>Revise counting in 2, 3,4,5,6, and 10 include x by 1 and 0, dividing by and 0.</li> <li>Revise times tables facts through commutativity</li> <li>Applying knowledge if I know <math>12 \times 2</math> how can I use this to solve <math>14 \times 2</math>?</li> <li>If I know <math>4 \times 6 = 24</math> then what is <math>40 \times 6</math> etc....</li> <li>Introduce test of divisibility for 4, 8, 3 and 6</li> <li>Count in 6, and 9s</li> <li>Count in 60s, and 90s</li> <li>Link 60 to time – minutes in an hour or seconds in a minute.</li> <li>Link 90s to right angles or angles of turn</li> <li>6 x table and 9 times table include x by 1 and 0.</li> <li>Explore multiples of 6 and 9 lined to 3s through sequences</li> <li>Patterns with 6 and 9 – <math>6 \times 3 = 18</math> so what is <math>60 \times 3</math> etc.</li> <li>Arrays for multiplication facts link to area</li> <li>Distributive law <math>6 \times 4 = 6 \times 2 + 6 \times 2</math></li> <li>Empty boxes with above.</li> </ul> <p>Notes: Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>: look for correspondence facts and what this means e.g. <math>6 \times 7 = 4 \times 7 + 2 \times 7</math> and explore rules of divisibility e.g. a number in the 9 times table has its digits add up to be a multiple of 9, include language like multiple and factor and if they know <math>12 \times 7</math> then <math>13 \times 7</math> is one larger.</p>

8	<p><b>Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>Count in multiples of 7</li> <li>Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li> <li>Recognise and use factor pairs and commutativity in mental calculations</li> </ul>	<ul style="list-style-type: none"> <li>Count in 7s</li> <li>Count in 7s through the context of days of the week</li> <li>Use of 7 times table to solve problems for days of week</li> <li>Count in multiples of 70s, 90s etc.</li> <li>7 times table include x by 1 and 0</li> <li>Arrays for multiplication facts.</li> <li>Distributive law <math>7 \times 4 = 5 \times 4 + 2 \times 4</math></li> <li>Applying knowledge If I know <math>12 \times 7 = 84</math> how can I work out <math>13 \times 7</math> or <math>15 \times 7</math>, <math>120 \times 7</math> etc.</li> <li>Introduce factors and factor pairs</li> <li>Splitting numbers into smaller factors</li> <li>X 3 single digit numbers including solving problems with empty boxes.</li> <li>Count in multiples of 11 and look for patterns</li> </ul>
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