

# Year 4 term 3&4



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## Oral and Mental calculation

- Read and write numbers with one decimal place up to 10,000.
- Count on and back in 1s, 10 s or 100 s from any number up to 10,000.
- Count forwards and backwards in equal steps
- Count forwards and backwards through zero to include negative numbers
- *Order temperatures including those below 0°C.*
- Count in fraction steps, e.g.  $\frac{1}{5}, \frac{2}{5}, \frac{3}{5} \dots 0.1, 0.2, 0.3, 0.4 \dots$
- *Count on and back in steps of unit fractions.*
- *Identify, extend and describe number patterns or sequences*
- Compare and order a set of random numbers up to 10,000 *using > or <*
- Round any number up to 10000 to the nearest 10, 100 or 1000.
- Recall addition and subtraction facts for each number up to 20.
- Recall addition and subtraction facts for 100
- *Add and subtract pairs of two digit and/or three digit numbers mentally*
- Find 0.1 , 1, 10, 100 or 1000 more or less than a given number
- Recall multiplication facts for 2, 3, 4, 5,6 ,8 and 9 x tables
- Multiply numbers by 0 and 1
- Count in multiples of 25, 50 and ,100
- Multiply three numbers together – from within known facts
- Recognise and use factor pairs in mental calculations.
- Divide multiples from known tables mentally
- Divide numbers by 1
- Multiply and divide whole numbers by 10 or 100 (*whole number that will give answers to one decimal place*)
- Double any multiple of 10 or 100.
- Recognise 2 D and 3D shapes and describe their properties

Week	Main focus of teaching
1	<p><b>Number and place value to solve problems</b></p> <ul style="list-style-type: none"> <li>● Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones).</li> <li>● <i>Identify the value of each digit to at least one decimal place.</i></li> <li>● Identify, represent and estimate numbers using different representations, including the number line.</li> <li>● Solve number and practical problems that involve number and place value.</li> <li>●</li> </ul>

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2	<p><b>Addition and subtraction to solve problems</b></p> <ul style="list-style-type: none"><li>• Estimate answers</li><li>• <i>Think about the most appropriate strategy to solve a calculation mentally, using a jotting or a written method</i></li><li>• Add numbers with up to 4 digits and decimals with one decimal place using a compact written method</li><li>• Subtract numbers with up to 4 digits and decimals with one decimal place using an expanded or compact written method.</li><li>• Use inverse to check the answer to calculations</li><li>• Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li></ul>
3	<p><b>Measures –Money</b></p> <ul style="list-style-type: none"><li>• <i>Revise coinage and notes</i></li><li>• <i>Continue to recognise and use symbols for pounds (£) and pence (p)</i></li><li>• <i>Understand that the decimal point separates pounds and pence</i></li><li>• Estimate answers</li><li>• <i>Think about the most appropriate strategy to solve a calculation: mentally, using a jotting or a written method</i></li><li>• <i>Add two or more amounts of money using compact written methods</i></li><li>• <i>Subtract to find a price difference or to calculate change using an expanded written method</i></li><li>• <i>Count up (shopkeepers addition) to find change from notes</i></li><li>• <i>Multiply amounts of money to find the price of several of the same article using an expanded method (use pictures or manipulatives to support)</i></li><li>• Use inverse to check the answer to calculations</li><li>• Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</li><li>• Solve simple money problems involving fractions and decimals to at least one decimal place.</li></ul>
4	<p><b>Measures-weight –to solve problems</b></p> <ul style="list-style-type: none"><li>• <i>Read and interpret the scale on a range of measuring equipment</i></li><li>• <i>Estimate weights before measuring</i></li><li>• <i>Measure weights in Kg or g and record results using one decimal place</i></li><li>• <i>Convert between Kg and g</i></li><li>• Estimate answers</li></ul>

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	<ul style="list-style-type: none"><li>• <i>Think about the most appropriate strategy to solve a calculation: mentally, using a jotting or a written method</i></li><li>• Add two or more weights with up to 4 digits and decimals with one decimal place using a written methods</li><li>• Subtract weights to find the difference or a decrease with numbers with up to 4 digits and decimals with one decimal place using an expanded or compact written method</li><li>• Use inverse to check the answer to calculations</li><li>• Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li><li>• Solve simple weight problems involving fractions and decimals to one decimal place.</li></ul>
5	<p><b>Fractions to solve problem s</b></p> <ul style="list-style-type: none"><li>• <i>Understand that a fraction is one whole number divided by another (for example, <math>\frac{3}{4}</math> can be interpreted as <math>3 \div 4</math>)</i></li><li>• <i>Compare and order unit fractions and fractions with the same denominator (including on a number line). (Year 3 objective)</i></li><li>• <i>Recognise, find and write fractions of a discrete set of objects.</i></li><li>• Estimate answers</li><li>• <i>Think about the most appropriate strategy to solve a calculation mentally, using a jotting or a written method</i></li><li>• Add fractions with the same denominator using diagrams to support.</li><li>• Subtract fractions with the same denominator using diagrams to support.</li><li>• Recognise and show, using diagrams, families of common equivalent fractions, <i>especially in relation to halves and quarters.</i></li><li>• Solve problems involving fractions to calculate quantities, including non-unit fractions where the answer is a whole number</li><li>• Solve problems involving fractions to fractions to divide quantities</li></ul>
6	<p><b>Decimals to solve problems</b></p> <ul style="list-style-type: none"><li>• Count in tenths <i>on counting stick</i></li><li>• <i>Read and write numbers with one decimal place.</i></li><li>• <i>Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10(year 3)</i></li><li>• <i>Identify the value of each digit to one decimal place.</i></li></ul>

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	<ul style="list-style-type: none"> <li>• <i>Partition numbers into ones and tenths (for example, <math>2.3 = 2 + 0.3</math>)</i></li> <li>• <i>Order and compare numbers with one decimal place including on a number line.</i></li> <li>• <i>Divide a two –digit number by 10 to create decimals with one decimal place</i></li> <li>• <i>Recognise and write decimal equivalents of any number of tenths e.g. <math>1/10 = 0.1</math>.</i></li> <li>• <i>Recognise and write decimal equivalents to <math>\frac{1}{4}</math>; <math>\frac{1}{2}</math>; <math>\frac{3}{4}</math>.</i></li> <li>• <i>Solve problems involving ordering numbers to one decimal place</i></li> </ul>
7	<p><b>Multiplication to solve problems</b></p> <ul style="list-style-type: none"> <li>• <i>Recall multiplication and division facts for the 7 x and 11 x tables</i></li> <li>• <i>Use partitioning to double or halve any number, including decimals to one decimal place by partitioning and re-combining.</i></li> <li>• <i>Estimate answers</i></li> <li>• <i>Think about the most appropriate strategy to solve a calculation mentally, using a jotting or a written method</i></li> <li>• <i>Multiply two-digit or three-digit numbers by a one-digit number using an expanded written method</i></li> <li>• <i>Use inverse to check the answer to calculations</i></li> <li>• <i>Solve problems involving multiplying (and maybe adding )including integer scaling problems to make an amount a number of times larger</i></li> </ul>
8	<p><b>Division to solve problems</b></p> <ul style="list-style-type: none"> <li>• <i>Continue to understand division as sharing and grouping and use each appropriately.</i></li> <li>• <i>Estimate answers</i></li> <li>• <i>Think about the most appropriate strategy to solve a calculation :mentally, using a jotting or a written method</i></li> <li>• <i>Divide numbers up to 3 digits by a one-digit number using an expanded or written method of short division (using manipulative /diagrams to support).</i></li> <li>• <i>Interpret remainders appropriately for the context</i></li> <li>• <i>Use inverse to check the answer to calculations</i></li> <li>• <i>Solve problems involving division (including remainders) and integer scaling problems to make an amount a number of times smaller</i></li> </ul>

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9	<p><b>Shape and position and direction</b></p> <ul style="list-style-type: none"><li>• <i>Understand that area is a measure of surface within a shape.</i></li><li>• Find the area of rectilinear shapes by counting squares.</li><li>• Describe movements between positions as translations of a given unit to the left/right and up/down.</li><li>• Describe positions on a 2-D grid as coordinates in the first quadrant.</li><li>• Plot specified points and draw sides to complete a given polygon.</li><li>• Complete a simple symmetric figure with respect to a specific line of symmetry</li><li>• Solve problem involving shape</li><li>• Solve problems involving position and /or direction</li></ul>
10	<p><b>Assess and review</b></p>