

Year 5 term 1&2



Points in italics are either where statements have been moved from other year groups or to support progression where no statement is given

Oral and Mental calculation

- Read numbers to 100 000 in numerals and words
- Write numbers to 100 000 in numerals and words
- Order and compare whole numbers up to 1 000 000, negative numbers and decimals with up to one decimal places on a number line.
- Record using < or >
- Know what each digit represents in numbers to 100 0000
- Read and write decimal numbers to one place and know what each number represents.
- Count on or back in steps of 0.01, 0.1, 1, 10, 100 or 1000 from any number including decimals
- Count on and back in fractions
- Know by heart facts for all multiplication tables up to 12 x 12
- *Use facts to 12 x 12 and partitioning to multiply larger numbers or divide numbers larger than 144 mentally or supported by jottings .*
- Add and subtract numbers mentally including decimals to one decimal place *with jottings.*
- *Use partitioning to double or halve any number, including decimals to one decimal place.*
- Derive related facts from known facts (e.g. 6×0.2 linked to 6×2 or $1 + 9 = 10$ linked to $0.1 + 0.9 = 1$)
- Multiply and divide whole numbers and decimals with up to one decimal place mentally by 10 or 100-*link to scaling up or down,*
- Round whole numbers to the nearest 10, 100 or 1000-*link to number line*
- Round a number with up to one decimal places to the nearest whole number-*link to number line.*
- Link scales on measuring tools or graphs to number lines and read scales

Week	Main focus of teaching
1	<p>Number and place value to solve problems</p> <p><i>Identify the value of each digit to two decimal places- using images or manipulatives in a five digit number.</i></p> <p><i>Read and write numbers with two decimal places supported by images or manipulatives.</i></p> <p><i>Compare and order numbers with two decimal places on an empty number line –supported by images or manipulatives.</i></p> <p><i>Partition numbers into ones, tenths and hundredths (for example, $6.41 = 6 + 0.4 + 0.01$ supported by practical resources</i></p>

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	<p>Round decimals with two decimal places to the nearest whole number and to one decimal place <i>using a number line</i>.</p> <p>Solve problems involving numbers with up to two decimal places.</p>
2	<p>Addition and subtraction to solve problems</p> <ul style="list-style-type: none"> • Estimate answers • <i>Consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method</i> • <i>Revise addition of whole numbers with 4 digits and decimals with one decimal place, including using a compact written method</i> • <i>Revise subtraction whole numbers with 4 digits and decimals with one decimal place including using a compact written method</i> • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
3	<p>Measures –Money to solve problems</p> <ul style="list-style-type: none"> • Estimate answers • <i>Consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method</i> • Add amounts of money including using a compact written method • Subtract amounts of money including using a compact written method • Calculate change including from £10, £20 or £50. • Solve addition and subtraction multi-step problems in the context of money deciding which operations and methods to use and why.
4	<p>Multiplication and division-factors and primes - to solve problems</p> <ul style="list-style-type: none"> • <i>Know how to find the factors of a number using tables knowledge and arrays</i> • Know how to find all the factor pairs of a number • Know how to find common factors of two numbers • <i>Know how to find prime numbers up to 100-link to square numbers</i> • Know and use the vocabulary of prime numbers • Record square numbers using (²) for squared. • Solve problems involving using and applying the knowledge of factors, multiples, square numbers and cube numbers.

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5	<p>Fractions to solve problems</p> <ul style="list-style-type: none">• Read and write decimal numbers as fractions <i>and vice versa</i>• Identify, name and write equivalent fractions of a given fraction, <i>use manipulatives and diagrams represented visually –link to factors and multiples</i>• Identify, name and write equivalent fractions of a number of tenths or hundredths <i>-use manipulatives or diagrams ,</i>• Compare and order fractions where the denominators are all multiples of the same number <i>(on a number line).i.e. $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{6}$ and $\frac{1}{12}$</i>• <i>Solve problems involving fractions.</i>	
6	<p>Multiplication and division to solve problems</p> <ul style="list-style-type: none">• Estimate answers• <i>Consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method</i>• Multiply numbers up to 4 digits by a one- or two-digit number using an expanded written method.• Divide numbers up to 4 digits by a one-digit number using a compact written method of short division• Interpret remainders appropriately in the context of the question .• Solve problems involving multiplication and division	
7	<p>Shape and position and direction to solve problems</p> <ul style="list-style-type: none">• <i>Know how to use a protractor</i>• Know angles are measured in degrees• Estimate and compare acute, obtuse and reflex angles.• Draw given angles and measure them in degrees ($^{\circ}$)• <i>Know how to compare lengths and angles to decide if a polygon is regular or not</i>• Sort regular polygons and those that are not regular• Use the properties of rectangles to find missing lengths and angles <i>in given shapes.</i>• Measure and calculate the perimeter of rectangular shapes in centimetres and/or metres	

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8	<p>Measures –Time to solve problems</p> <ul style="list-style-type: none">• <i>Continue to read, write and convert time between analogue and digital 12 hour clocks.</i>• <i>Know the link between the 12 hour and 24 hour clock</i>• <i>read, write and convert time between analogue and digital 12 hour clock and 24 hour clock.</i>• <i>Complete, read and interpret information in timetables Solve problems involving interpreting time tables</i>• <i>Solve problems involving converting between units of time e.g. seconds and minutes, half past 12 and 13:30.</i>	
9	<p>Statistics to solve problems</p> <ul style="list-style-type: none">• <i>Revise continuous and discrete data</i>• <i>Read and understand scales, including estimating points that are between the numbers marked on the scales</i>• <i>Solve comparison, sum and difference problems using information presented in a line graph</i>• <i>Complete, read and interpret information in tables, including timetables.- link to 24 hour clock</i>	
10	<p>Assess and review</p>	