

Year 4 term 5&6

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Oral and Mental calculation

Read and write numbers to 10,000 including those with one decimal place

Describe and extend number sequences involving counting on or back in different steps, including steps that are multiples, doubles or halves.

Count on and back in 0.1 s, 1s, 10 s or 100 s from any number up to 10,000.

Count backwards through zero to include negative numbers.

Count up and down in tenths.

Count in fraction steps, e.g. $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$...

Order a set of random numbers to at least 10,000 including amounts of money and measures and numbers involving decimals

Round any number to the nearest 10, 100 or 1000

Recall and use addition and subtraction facts for 100.

Recall and use addition and subtraction facts for multiples of 100 totalling 1000.

Derive and use addition and subtraction facts for 1 and 10 (including with decimal numbers to one decimal place).

Use partitioning to double or halve any number, including decimals to one decimal place.

Count in multiples of 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 20, 25, 50, 100, 250, 500 and 1000.

Recall multiplication facts for all times up to 12 x 12 and derive associated division facts

Multiply and divide numbers by 10, including those which have answers to one decimal place

.Multiply 0 and 1

Divide by 1

multiply together three numbers

Recognise and use factor pairs

Identify and use patterns of similar calculations for addition and subtraction and for multiplication and division statements

Recognise 2D and 3D shapes in different orientations and describe them.

Week	Main focus of teaching
1	<p>Number and place value to solve problems</p> <ul style="list-style-type: none"> <i>Introduce hundredths as the effect of dividing a one- or two-digit number by 100</i> <i>Partition numbers into tens, ones, tenths and hundredths using manipulative to support</i> <i>Identify the value of each digit to at least one decimal place</i> <i>Read and write decimal numbers using the correct terms</i>

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	<ul style="list-style-type: none">• Recognise and write decimal equivalents of any number of tenths and hundredths• Recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$.• Round decimals with one decimal place to the nearest whole number.• Order and compare numbers with the same number of decimal places up to two decimal places <i>including on a number line</i>• Solve problems that involve number and place value
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>• Add numbers with up to 4 digits and decimals with at least one decimal place using a compact written method.• subtract numbers with up to 4 digits and decimals with at least one decimal place using a compact written methods of subtraction• use inverse to check the answers to calculations• Solve addition and subtraction two-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">• <i>Revise coinage and notes</i>• <i>Continue to recognise and use symbols for pounds (£) and pence (p)</i>• <i>Understand that the decimal point separates pounds and pence</i>• Estimate answers• <i>Consider the most appropriate strategy to solve a calculation calculate mentally, use a jotting or a written method</i>• Add two or more amounts of money with up to 5 digits (including decimals with two decimal places) using a written method of addition where appropriate.• Subtract amounts of money with up to 5 digits (including decimals with two decimal places) using a written method of subtraction where appropriate.• Use inverse to check the answers to calculations• <i>Calculate change from multiples of 10 or 100 to £500</i>• Solve problems involving money

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4	<p>Measures-capacity / volume to solve problem</p> <ul style="list-style-type: none">• <i>Read and interpret the scale on a range of measuring instruments –link to number line</i>• Estimate, compare and calculate different capacity/volumes.• Convert between different units of capacity <i>l/mm</i>• Estimate answers• <i>Consider the most appropriate strategy to solve a calculation calculate mentally, use a jotting or a, written method</i>• Add two or more volumes with up to 4 digits (including decimals with two decimal places) using a written method of addition where appropriate.• Subtract volumes up to 4 digits (including decimals with two decimal places) using a written method of subtraction where appropriate.• Solve problems involving capacity
5	<p>Fractions 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 fractions with the same denominator-use diagrams <i>and manipulatives</i> to support.• Subtract fractions with the same denominator- use diagrams and <i>manipulatives</i> to support.• Recognise and show, using diagrams, families of common equivalent fractions• Solve problems involving using fractions to calculate quantities, including non-unit fractions where the answer is a whole number• Solve problems involving using fractions to divide quantities including non-unit fractions where the answer is a whole number.
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 two-digit and three-digit numbers by a one-digit number using an expanded written layout.• <i>Divide numbers up to 3 digits by a one-digit number using a written method of short division and interpret remainders appropriately for the context.</i>

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	<ul style="list-style-type: none">• Use inverse to check the answers to calculations• Solve problems involving multiplying and adding, scaling problems and harder correspondence problems such as which n objects are connected to m objects.• Solve problems division (including remainders) and integer scaling problems
7	<p>Shape and position and direction to solve problems</p> <ul style="list-style-type: none">• Identify lines of symmetry in 2-D shapes presented in different orientations.• <i>Complete a simple symmetric figure</i>• Describe movements between positions as translations the left/right and up/down.• Describe positions on a 2-D grid as coordinates in the first quadrant.• Plot specified points on a grid• Draw sides to complete a given polygon on a grid• Sort compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties• <i>Continue to identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</i>• Identify acute and obtuse angles• Compare and order angles up to two right angles by size• Solve problems involving shapes• Solve problems involving position and/or direction
8	<p>Statistics to solve problems</p> <ul style="list-style-type: none">• <i>Read and interpret a range of scales –link to number line</i>• <i>Understand the distinction between discrete and continuous data</i>• Interpret and present discrete data including bar charts, pictograms, diagrams, tables and time graphs• Interpret and present continuous data using graphs• Solve comparison, sum and difference problems using information presented in bar charts, pictograms, diagrams ,tables and graphs

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9	Measures –Time to solve problems <ul style="list-style-type: none">• Read, write and convert time between analogue and digital (<i>12 hour clocks.</i>)• Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days• Solve problems involving time expressed on graphs
10	Assess and review