

Year 4 Yearly Overview for maths.



	<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
Number / P.V	<p>Count in multiples of 6, 7, 9, 25, and 1000.</p> <p>Find 1000 more or less than a given number.</p> <p>Count backwards through zero to include negative numbers.</p> <p>Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones.)</p> <p>Order and compare numbers beyond 1000.</p> <p>Round any number to the nearest 10, 100 or 1000.</p>	<p>Solve number and practical problems that involve all of the above and with increasingly large positive numbers.</p> <p>There are 70 children. Each tent can accommodate up to 6 children. What is the smallest number of tents they will need?</p> <p>Identify, represent and estimate numbers using different representations.</p>	<p>Read Roman numerals to 100 (I to C) and know that over time, the number system changed to include the concept of zero and place value.</p>
+ / -	<p>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</p> <p>Estimate and use inverse operations to check answers to a calculation</p>	<p>Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</p> <p>I have read 134 of the 512 pages of my book. How many more pages must I read to reach the middle?</p>	<p>Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</p>
X / ÷	<p>Recall multiplication and division facts for multiplication tables up to 12 x 12</p> <p>Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three number</p> <p>Recognise and use factor pairs and commutativity in mental calculations</p>	<p>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout</p> <p>Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.</p> <p>Programmes cost 15p each. Selling programmes raises £12.30. How many programmes are sold?</p>	<p>Understand and use when appropriate the principles (but not the names) of the commutative, associative and distributive laws as they apply to multiplication:</p> <p>Example of commutative law: $8 \times 15 = 15 \times 8$</p> <p>Example of associative law: $6 \times 15 = 6 \times (5 \times 3) = (6 \times 5) \times 3 = 30 \times 3 = 90$</p> <p>Example of distributive law : $18 \times 5 = (10 + 8) \times 5 = (10 \times 5) + (8 \times 5) = 50 + 40 = 90$</p>
Fractions	<p>Recognise and show, using diagrams, families of common equivalent fractions</p> <p>Recognise patterns in equivalent patterns, such as: $\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12} = \frac{7}{14}$</p> <p>Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</p> <p>Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</p>	<p>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number</p> <p>What is one-fifth of twenty-five?</p> <p>Write the missing number to make this correct</p> $\frac{1}{4} \text{ of } 24 = \frac{1}{2} \text{ of } \square$ <p>Add and subtract fractions with the same denominator</p> <p>Round decimals with one decimal place to the nearest whole number</p> <p>Compare numbers with the same number of decimal places up to two decimal places</p>	<p>Recognise and write decimal equivalents of any number of tenths or hundredths</p> <p>Recognise and write decimal equivalents to $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$, e.g. 0.5 is equivalent to $\frac{1}{2}$, 0.25 is equivalent to $\frac{1}{4}$, 0.75 is equivalent to $\frac{3}{4}$, 0.1 is equivalent to $\frac{1}{10}$</p> <p>Solve simple measure and money problems involving fractions and decimals to two decimal places.</p>
Measure		<p>Convert between different units of measure [for example kilometre to metre]</p> <p>A bag of flour weighs 2 kg. How many grams is this?</p> <p>Estimate, compare and calculate different measures</p> <p>Dad bought three tins of paint at £5.68 each. How much change does he get from £20?</p> <p>A jug holds 2 litres. A glass holds 250 ml. How many glasses will the jug fill?</p>	<p>Find the area of rectilinear shapes by counting squares</p> <p>Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</p>

Time	<p>Convert between different units of measure [for example, hour to minute]</p> <p>Raiza got into the pool at 2:26 pm. She swam until 3 o'clock. How long did she swim?</p>	<p>Convert between different units of measure [for example, hour to minute]</p> <p>Raiza got into the pool at 2:26 pm. She swam until 3 o'clock. How long did she swim?</p>	<p>Convert between different units of measure [for example, hour to minute]</p> <p>Raiza got into the pool at 2:26 pm. She swam until 3 o'clock. How long did she swim?</p>
Money	<p>Estimate, compare and calculate different measures, including money in pounds and pence</p>	<p>Estimate, compare and calculate different measures, including money in pounds and pence</p>	<p>Estimate, compare and calculate different measures, including money in pounds and pence</p>
Geometry	<p>Identify lines of symmetry in 2-D shapes presented in different orientations</p> <p>Complete a simple symmetric figure with respect to a specific line of symmetry</p>	<p>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</p> <p>Identify acute and obtuse angles and compare and order angles up to two right angles by size</p>	
Position			<p>Describe positions on a 2-D grid as coordinates in the first quadrant</p> <p>Describe movements between positions as translations of a given unit to the left/right and up/down</p> <p>Plot specified points and draw sides to complete a given polygon</p>
Statistics	<p>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graph</p> <p>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</p>	<p>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graph</p> <p>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</p>	<p>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graph</p> <p>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</p>

Green: could be covered through topic work. Red: examples of questions. Blue: Links with other areas of maths.