

The vision for Mathematics at Brixworth Primary School

We, at Brixworth Primary School, envisage that every learner who leaves our school will have the three Maths concepts embedded in them as a learner:

Number Facts and knowledge

This concept involves having a clear understanding of a range of number facts including counting, number bonds, place value, times table and division facts and understanding shape and position.

Working with Number

This concept involves being able to manipulate numbers, comparing, measuring, using data and being able to carry out calculations.

Problem solving and Reasoning

This concept involves children understanding how to use their mathematical knowledge to solve problems and to be able to justify their answer.

Year 3

YEAR 3	Autumn Term 1	Autumn Term 2	Spring Term 3	Spring Term 4	Summer Term 5	Summer Term 6
Number and Place Value	<p>I know the place value of each digit in 2 and 3 digit numbers</p> <p>I can count on in 10s and 100s up to 1000.</p> <p>I can compare and order numbers to 1000 (<, > and =)</p> <p>I can calculate 10 or 100 more or less than a given number</p> <p>I can count on in multiples of 4 and 8</p>	<p>I can record numbers in numerals and words up to 1000 making simple statements of comparison (< & >)</p> <p>I can partition 3 digit numbers into hundreds, tens and ones</p>	<p>I can solve simple number problems using place value models</p> <p>I can count on in 10s, 50s and 100s up to 1000.</p>	<p>I can use my knowledge of place value to round 2 and 3 digit numbers to the nearest 10 and 100 to aid estimation</p> <p>I can count on in multiples of 4 and 8</p>	<p>I can use my knowledge of place value to solve problems or investigating number.</p>	<p>I can use my knowledge of place value to solve problems or investigating number.</p>
Addition and Subtraction	<p>I can + numbers up to 3 digits using multiple methods including the formal</p>	<p>I can + and - 3 digits using multiple methods including the formal written</p>	<p>I can use formal methods of + and -</p>	<p>I can solve 1 step word problems using pictures, bar graphs</p>	<p>I can solve + and - 1 and 2 step word problems</p>	<p>I can solve + and - 1 and 2 step word problems</p>

Year 3

	<p>written method of column addition and subtraction.</p> <p>I understand that addition is commutative and can use this rule when adding multiple numbers</p> <p>I can solve problems involving + and -</p>	<p>method of column subtraction and use this to solve problems</p> <p>I can investigate and explain why subtraction is not commutative</p>	<p>when solving problems</p> <p>I can use the inverse method to check calculations.</p> <p>I can solve missing number problems with + and -</p>	<p>and formal written methods</p>		
<p>Multiplication and Division</p>	<p>I can recall times tables facts from the 2, 5, 10 and 3 times tables and use this to solve problems</p> <p>I can recall and use facts from the 8 times tables.</p> <p>I can X and ÷ a two digit number by a 1 digit number using</p>	<p>I can recall and use facts from the 4 times tables.</p> <p>I can solve problems involving X and ÷</p> <p>I can X and ÷ a two digit number by a 1 digit number using</p>	<p>I can solve 2 digit x 1 digit problems</p> <p>I can solve missing number problems</p>	<p>I can recall and use facts from the 8 times tables.</p> <p>I can use formal written methods of x to solve 2d x 1d calculations</p>	<p>I can recall facts from the 2,3,4,5 and 10 times tables</p> <p>I can recall and use facts from the 8 times tables</p> <p>I can use formal methods of</p>	<p>Review times table and division facts of the 2, 3, 4, 5, 8 and 10 times tables to solve problems</p> <p>I can solve 1 and 2 step problems using x and ÷ methods.</p>

Year 3

	mental and written methods				<p>multiplication and use this to solve problems</p> <p>I can divide 2d by 1d numbers using x facts to derive ÷ facts.</p>	
Fractions	I can recognise, write and calculate fractions of a given set of objects.	<p>I can count on and back in tenths</p> <p>I can recognise that tenths are derived by dividing an object into 10 equal parts.</p>	<p>I can identify unit and non-unit fractions and look for equivalence.</p> <p>I can add and subtract fractions with the same denominators</p>	I can recognise and show equivalent fractions using diagrams	<p>I can compare and order fractions with the same denominators</p> <p>I can solve problems involving fractions</p>	<p>I can compare and order unit fractions, and fractions with the same denominator</p> <p>I can solve problems involving fractions</p>
Measurement	<p>I can estimate and read time to the nearest minute from an analogue clock</p> <p>I can solve simple time problems.</p>	<p>I know the number of seconds in a minute, the number of days in each month, year and leap year.</p> <p>I can add and subtract amounts of money using £ and</p>	<p>I understand the relationship between analogue and digital 12 hour clocks.</p> <p>I can compare time in seconds,</p>	I can measure, compare, + and – calculations on mass (kg/g) and capacity (l/ml)	I can calculate the perimeter of simple 2D shapes.	<p>I can solve word problems on time and measures, including comparing durations of time.</p> <p>I can identify and use Roman Numerals up I to XII</p>

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	I can add and subtract amounts of money using	p, including giving change I can compare time in seconds, minutes, hours and use appropriate vocabulary (am/pm/morning)	minutes, hours and use appropriate vocabulary (am/pm/morning) I can measure, compare, + and – lengths (m/cm/mm)			
Geometry	I can identify and describe properties of 2D shapes I can identify horizontal, vertical, perpendicular and parallel lines within a shape	I can draw 2D shapes from given measurements I can identify lines of symmetry.	I can identify , model and describe 3D shapes I can identify horizontal, vertical, perpendicular and parallel lines within a shape	I can identify right angles and angles that are > than or < than a right angle I understand the relationship between right angles and degrees of turn	I can identify horizontal, vertical, perpendicular and parallel lines within a shape I can identify lines of symmetry.	I can describe the properties of 2D and 3D shapes using the language of length, angles and symmetry.
Statistics		I can present data using a pictogram and answer questions to	I can present data using bar graphs, charts and tables.	I can interpret data in pictograms, bar charts and tables.	I can interpret data to solve one and two step problems	I can interpret data to solve one and two step problems

Year 3

		understand the data		I can solve one step problems		
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