

Year 2 Curriculum Map - Maths

During **Key Stage 1** pupils develop their knowledge and understanding of mathematics through practical activity, exploration and discussion. They learn to count, read, write and order numbers to 100 and beyond. They develop a range of mental calculation skills and use these confidently in different settings. They learn about shape and space through practical activity which builds on their understanding of their immediate environment. They begin to grasp mathematical language, using it to talk about their methods and explain their reasoning when solving problems.

Ready- to progress criteria

Term 1 Numbers to 150 (4 Weeks) Addition and Subtraction (5 Weeks) Geometry: Shape (3 weeks)		Term 2 Number to 200 Measurement: Money(2 Weeks) Number: Multiplication and Division (5 Weeks) Measurement: Length and Height (2 weeks) Measurement: Mass, Capacity and Temperature (3 Weeks)		Term 3 Numbers to 200 Number: Fractions (3 weeks) Measurement: Time (3 Weeks) Statistics (2 Weeks) Geometry: Position and Direction (2 Weeks) Consolidation weeks to complete the term.	
Concrete and Pictorial					
Identify and represent numbers (0-100)	Identify and represent numbers (0-150)	Identify and represent numbers (0-150)	Identify and represent numbers (0-200)	Identify and represent numbers (0-200)	Identify and represent numbers (0-200)
Number and place value					
Read and write numbers above in digits and words	Read and write numbers above 100.	Read and write numbers above.	Read and write numbers above.	Read and write numbers above.	Count to and across 200, forwards and backwards.
2NPV-1 Compare and order numbers. Use < > = signs		Compare and order numbers. Use < > = signs	Compare and order numbers. Use < > = signs		
2NPV-1 Recognise place value of each digit in 2 digit numbers and compose and decompose 2 digit numbers using standard and non-standard partitioning		Recognise place value of HTU	Recognise place value of HTU	Recognise place value of HTU	Recognise place value of HTU
2NPV-2 Reason about the location of any 2 digit number in the linear number system, including identifying the previous and next multiple of 10					
Count, read and write numbers					
Write numbers to 100 in Words	Count in ones, 2s, 5s and 10s forwards and back	Count in ones, 2s, 5s and 10s forwards and back	Count in ones, 2s, 3s, 5s and 10s forwards and back	Count coins (1p, 2p, 5p, 10p, 20p and 50p)	
Count in steps of ones and 10s forwards and back					
Count in ones, 2s, 5s and 10s forwards and back	Write numbers to 150 in Words			Count in fractions to a whole	
Count in 3s					
Addition and Subtraction					
2AS-1 2NF-1 Recall and use addition and subtraction facts to 20 fluently. Derive and use related facts to 100.	Recall and use addition and subtraction facts to 50 fluently. Derive and use related facts to 150.	2AS-3 Recall and use addition and subtraction facts to 50 fluently. Derive and use related facts to 150.	Recall and use addition and subtraction facts to 100 fluently. Derive and use related facts to 200.	Recall and use addition and subtraction facts to 100 fluently. Derive and use related facts to 200.	Recall and use addition and subtraction facts to 100 fluently. Derive and use related facts to 200.
Use concrete objects and pictorial representations to solve simple one-step problems with + and- involving numbers 0-100.	2AS-4 Use concrete objects and pictorial representations to solve simple one-step and two-step problems with + and- involving numbers 0-150. Continue using columns: - a two-digit number and ones - a two-digit number and tens - two two-digit numbers - adding three one-digit numbers.	Use concrete objects and pictorial representations to solve simple one-step and two-step problems with + and- involving numbers 0-150, quantities and measures. - a two-digit number and ones - a two-digit number and tens - two two-digit numbers - adding three one-digit numbers.	Recognise and use inverse relationship between addition and subtractions Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.	Continue written methods.	
2AS-2 Recognise the subtraction structure of 'difference' and answer questions of the form, 'How many more...?' Introduce columns.					Recognise and use inverse relationship between addition and subtractions with more complex missing numbers eg $14 + * - 3 = 17$ Solve word problems that involve more than one step
Multiplication and Division					
	Calculate multiplication and division within the two times table using correct symbols. To double and halve even numbers up to 100 Recall and use X and ÷ facts for the 2,5 and 10 times table. Recognise odd and even numbers	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs.	Recall and use X and ÷ facts for the 2,5,10x table. Recognise odd and even numbers	Recognise and use the inverse relationship between multiplication and division in calculations	Solve one step problems using a range of concrete resources and mental methods. Determine remainders given known facts.
	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs. 2MD-1 Recall and use X and ÷ facts for the 2,5, 10x table 2MD-2 Recall and use X and ÷ facts for the 2,5, 10x table.			Show that multiplication of 2 numbers can be done in any order (commutative) and division cannot	Recognise the relationships between addition and multiplication and can re-write addition statements as simplified multiplication statements
Money					
	Count money in pence, notes and coins To recognise and use symbols for £ and p Combine amounts to make a particular value Find different combinations of coins that equal the same amount of money (p) Solve simple problems in a practical context involving addition of money of the same unit Solve simple + and - problems using money with change.				
Fractions					
				To recognise, find, name and write $\frac{1}{2}$ a set of objects, quantity or shape	Write simple fractions, e.g. $\frac{1}{2}$ of 6

Year 2 Curriculum Map - Maths



[Type here]

				To recognise, find, name and write $\frac{1}{2}$ a set of objects, quantity or length To recognise, find, name and write $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{1}{3}$ of a set of objects, quantity or length To recognise, find, name and write $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{2}{4}$, $\frac{3}{4}$ $\frac{1}{3}$ of a set of objects, quantity, shape or length Recognise the equivalence of $\frac{2}{4}$ and a $\frac{1}{2}$	
Measure					
			Choose and use appropriate standard units to estimate and measure length/height in any direction Compare and order length and record the results using < > and = Choose and use appropriate standard units to estimate and measure mass (g/kg) Compare and order mass and record the results using < > and = Choose and use appropriate standard units to estimate and measure temperature and capacity Compare and order capacity and record the results using < > and = Read scales in divisions of ones, twos, fives and tens in a practical situation where all of the numbers on the scale are given Carry out 4 operations involving length, height, mass, capacity and temperature		
Time					
				To know the number of minutes in an hour and the number of hours in a day Compare and sequence intervals of time Tell and write the time to 5 minutes, including quarter past/to the hour and draw the hands on a clock face to show these times O'clock and half past, quarter past and quarter to	
2D and 3D Shape					Position and Direction
	2G-1 Identify and describe the properties of 2D shapes, including the number of sides and symmetry in a vertical line 2G-1 Identify 2D shapes on the surface of 3D shapes, e.g. a circle on a cylinder and a triangle on a pyramid 2G-1 Identify and describe the properties of 3D shapes, including the number of edge, vertices and faces 2G-1 Compare and sort common 2D and 3D shapes and everyday objects 2G-1 Describe similarities and differences of shape properties				Order and arrange combinations of mathematical objects in patterns and sequences. Describe movements and turns
Statistics					
				Interpret and construct simple pictograms Ask and answer simple questions by counting, totalling, comparing and sorting objects Interpret and construct simple tally charts Interpret and construct simple block diagrams Ask and answer simple questions by counting, totalling, comparing and sorting objects Interpret pictograms 2,5,10	

Year 2 Curriculum Map - Maths



[Type here]

Understand and use key vocabulary					
Greater than, less than, equals, digit, place value, number bonds, addition, subtraction,	Greater than, less than, equals, digit, place value, number bonds, addition, subtraction, multiplication, division, double, halve, odd, even, other words for addition, other words for subtraction, 2D and names of common polygons, symmetry 3D and names of common polyhedrons	multiplication, division, pounds, pence other words for multiplication and division, Problem solving, one step, two step, quantity, measure, total value, length, longer, shorter, 2D and names of common polygons, symmetry	Capacity, temperature, calibration, degrees, Celsius, thermometer, scale,	Mass, names of fractions, inverse, set, weight, heavier, lighter, gram, kilogram, compare, sequence, minutes, second, hour, day, week, month, year	Movement, straight line, rotation as a turn, right angles for quarter, half and three quarter turns, clockwise and anticlockwise, change, equivalence, array
Rainbow Challenge					
	<p>Green</p> <p>Count backwards in multiples of 10 from 100 Count backwards in multiples of 5 from 100 Know by heart number bonds to 20 Know by heart doubles of all numbers up to 20 Know by heart halves of all even numbers up to 20</p>		<p>Blue</p> <p>Count forwards in steps of 10 from any number up to 150 Count backwards in steps of 10 from any number Know by heart multiplication facts for the 2 times table Know by heart division facts for the 2 times table Know by heart all number bonds to 50</p>		<p>Indigo</p> <p>Know by heart multiplication facts for the 5 times table Know by heart division facts for the 5 times table Know by heart multiplication facts for the 10 times table Know by heart division facts for the 10 times table Say 10 more or 10 less than any number up to 200</p>