## ک Year 2 Maths Long Term Map

Autumn	Number <b>Place value</b>			Number Addition and subtraction			Geome Shap	try De	
Spring	Measurement Money	Numbe Mult	r iplicati	ion and divisio	n	Measur Leng and heig	rement Jth ht	Measu Mass capo tem	rement S, Icity and perature
Summer	Number <b>Fractions</b>		Measu Time	rement	Stat	istics	Geom Posi and dire	<sup>etry</sup> tion ction	Consolidation

White Rose Steps							
Number: Place Value	Can you	National Curriculum Objectives					
Step 1: Numbers to 20	Can you recognise, read and write numbers to 20?	<ul> <li>Read and write numbers from 1 to 20 in numerals and words (Y1)</li> <li>Read and write numbers to at least 100 in numerals and in words</li> </ul>					
Step 2: Count objects to 100 by making 10s	Can you count objects to 100 by making 10s?	<ul> <li>Read and write numbers to at least 100 in numerals and in words</li> <li>Identify, represent and estimate numbers using different representations, including the number line</li> <li>Count in steps of 2, 3 and 5 from 0, and in 10s from any number, forward and backward</li> </ul>					
Step 3: Recognise tens and ones	Can you recognise tens and ones?	<ul> <li>Read and write numbers to at least 100 in numerals and in words</li> <li>Identify, represent and estimate numbers using different representations, including the number line</li> </ul>					
Step 4: Use a place value chart	Can you explore and use a place value chart?	Identify, represent and estimate numbers using different					
Step 5: Partition numbers to 100	Can you partition numbers to 100?	<ul> <li>representations, including the number line</li> <li>Recognise the place value of each digit in a 2-digit number (tens, ones)</li> </ul>					
Step 6: Write numbers to 100 in words	Can you write numbers to 100 in words?	<ul> <li>Read and write numbers to at least 100 in numerals and in words</li> <li>Recognise the place value of each digit in a digit number tens, ones</li> </ul>					
Step 7: Flexibly partition numbers to 100	Can you partition numbers to 100 in different ways?	• Identify, represent and estimate numbers using different representations, including the number line					
Step 8: Write numbers to 100 in expanded form	Can you write numbers to 100 in expanded form?	• Recognise the place value of each digit in a 2-digit number (tens, ones)					
Step 9: 10s on the number line to 100	Can you position 10s on a number line to 100?	• Count in steps of 2, 3 and 5 from 0 and in 10s from any number, forward and backward					
Step 10: 10s and 1s on the number line to 100	Can you position 10s and 1s on a number line to 100?	• Identify, represent and estimate numbers using different representations, including the number line					
Step 11: Estimate numbers on a number line	Can you estimate numbers on a number line?						
Step 12: Compare objects	Can you compare objects?	• Recognise the place value of each digit in a 2-digit number (tens,					
Step 13: Compare numbers	Can you compare numbers?	ones)					

Step 14: Order objects and numbers	Can you order objects and numbers?	• Compare and order numbers from 0 up to 100; use <, > and = signs
Step 15: Count in 2s, 5s and 10s	Can you count in 10s?	Count in steps of 2, 3 and 5 from 0, and in 10s from any number,
	Can you count in 2s?	
Step 16: Count in 3s	Can you count in 3s?	
Number: Addition and Subtr	action	
Step 1: Bonds to 10	Can you identify number bonds to 10?	• Represent and use number bonds and related subtraction facts
Step 2: Fact families - addition	Can you represent and use numbers bonds to 20?	within 20 (Y1)
and subtraction bonds to 20		<ul> <li>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</li> </ul>
Step 3: Related facts	Can you identify related facts for both addition and subtraction calculations?	• Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
Step 4: Bonds to 100 (tens)	Can you identify multiples of 10 that have bonds to 100?	
Step 5: Add and subtract 1s	Can you add and subtract 1 from any given number?	• Add and subtract numbers using concrete objects, pictorial
Step 6: Add by making 10	Can you use your numbers bonds to 10 to add numbers within 20?	representations, and mentally, including: a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers and adding three 1-
Step 7: Add three 1-digit numbers	Can you add three 1-digit numbers?	digit numbers
Step 8: Add to the next 10	Can you add to the next ten using your knowledge of number bonds?	
Step 9: Add across a 10	Can you add across a 10?	
Step 10: Subtract across 10	Can you subtract across a 10?	
Step 11: Subtract from a 10	Can you subtract from a 10?	
Step 12: Subtract a 1-digit	Can you subtract a 1-digit number from a 2-digit	
number from a 2-digit number	number?	
(across a 10)		
Step 13: 10 more, 10 less	Can you find 10 more or 10 less than a given number within 100?	
Step 14: Add and subtract 10s	Can you add and subtract multiples of 10 within 100?	
Step 15: Add two 2-digit numbers	Can you add two 2-digit numbers?	
(not across a 10)		
Step 16: Add two 2-digit numbers	Can you add two 2-digit numbers across a 10?	
(across a 10)		
Step 17: Subtract two 2-digit	Can you subtract two 2-digit numbers?	
numbers (not across a 10)		

Step 18: Subtract two 2-digit numbers (across a 10)	Can you subtract two 2-digit numbers across a 10?	
Step 19: Mixed addition and subtraction	Can you solve problems involving addition and subtraction?	
Step 20: Compare number sentences	Can you compare number sentences?	<ul> <li>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s a 2-digit number and 10s, two 2-digit numbers and adding three 1 digit numbers</li> <li>Compare and order numbers from 0 up to 100; use &lt;, &gt; and = signs</li> </ul>
Step 21: Missing number problems	Can you solve missing number problems?	<ul> <li>Add and subtract numbers using concrete objects, pictoria representations, and mentally, including: a 2-digit number and 1s a 2-digit number and 10s, two 2-digit numbers and adding three 1 digit numbers</li> </ul>
Geometry: Shape		
Step 1: Recognise a 2-D shape and 3-D shape	Can you recognise and name both 2-D and 3-D shapes?	<ul> <li>Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line</li> </ul>
Step 2: Count sides on 2-D shapes	Can you count the sides on a. 2-D shape?	
Step 3: Count vertices on 2-D shapes	Can you count the vertices on s 2-D shape?	
Step 4: Draw 2-D shapes	Can you draw 2-D shapes?	
Step 5: Lines of symmetry on shapes	Can you identify vertical lines of symmetry?	
Step 6: Use lines of symmetry to complete shapes	Can you use lines of symmetry to complete shapes?	
Step 7: Sort 2-D shapes	Can you sort 2-D shapes?	<ul> <li>Compare and sort common 2-D and 3-D shapes and everyday objects</li> </ul>
Step 8: Count faces on 3-D shapes	Can you count faces on 3-D shapes?	<ul> <li>Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</li> <li>Identify 2-D shapes on the surface of 3-D shapes</li> </ul>
Step 9: Count edges on 3-D shapes	Can you count edges on 3-D shapes?	• Identify and describe the properties of 3-D shapes, including the
Step 10: Count vertices on 3-D shapes	Can you count vertices on 3-D shapes?	number of edges, vertices and faces
Step 11: Sort 3-D shapes	Can you sort 3-D shapes?	<ul> <li>Compare and sort common 2-D and 3-D shapes and everyday objects</li> </ul>
Step 12: Make patterns with 2-D and 3-D shapes	Can you make patterns with 2-D and 3-D shapes?	• Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line

		•	Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
Measurement: Money		<u> </u>	
Step 1: Count money - pence	Can you count money in pence?	•	Recognise and use symbols for pounds (£) and pence (p); combine
Step 2: count money - pounds (notes and coins)	Can you count money using coins and notes?	•	amounts to make a particular value Solve simple problems in a practical context involving addition and
Step 3: Count money - pounds and pence	Can you count money using pounds and pence?		subtraction of money of the same unit, including giving change
Step 4: Choose notes and coins	Can you choose notes and coins to make a given amount?		
Step 5: Make the same amount	Can you explore different ways of making the same amount?		
Step 6: Compare amounts of money	Can you compare different amount of money?		
Step 7: Calculate with money	Can you perform calculations involving money?		
Step 8: Make a pound	Can you identify different ways to make 1 pound?	_	
Step 9: Find change	Can you find change from 1 pound?	_	
Step 10: Two-step problems	Can you solve two-step problems involving money?		
Number: Multiplication and l	Division	1	
Number: Multiplication and I Step 1: Recognise equal groups	Division Can you recognise equal groups?	•	Calculate mathematical statements for multiplication and division
Number: Multiplication and l Step 1: Recognise equal groups Step 2: Make equal groups	Division Can you recognise equal groups? Can you make equal groups?	•	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the
Number: Multiplication and I Step 1: Recognise equal groups Step 2: Make equal groups Step 3: Add equal groups	Division Can you recognise equal groups? Can you make equal groups? Can you add equal groups?	•	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs
Number:Multiplication andStep 1:Recognise equal groupsStep 2:Make equal groupsStep 3:Add equal groupsStep 4:Introduce themultiplication symbol	Division         Can you recognise equal groups?         Can you make equal groups?         Can you add equal groups?         Can you identify the multiplication symbol is used for multiplying?	•	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs
Number:Multiplication andStep 1:Recognise equal groupsStep 2:Make equal groupsStep 3:Add equal groupsStep 4:Introduce themultiplication symbolStep 5:Step 5:Multiplication sentences	Division Can you recognise equal groups? Can you make equal groups? Can you add equal groups? Can you identify the multiplication symbol is used for multiplying? Can you solve multiplication sentences?	•	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs
Number: Multiplication and 1 Step 1: Recognise equal groups Step 2: Make equal groups Step 3: Add equal groups Step 4: Introduce the multiplication symbol Step 5: Multiplication sentences Step 6: Use arrays	Division         Can you recognise equal groups?         Can you make equal groups?         Can you add equal groups?         Can you identify the multiplication symbol is used for multiplying?         Can you solve multiplication sentences?         Can you use arrays to answer multiplication questions?	•	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (*), division (÷) and equals (=) signs Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (*), division (÷) and equals (=) signs Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
Number:Multiplication andStep 1: Recognise equal groupsStep 2: Make equal groupsStep 3: Add equal groupsStep 4:Introduce themultiplication symbolStep 5: Multiplication sentencesStep 6: Use arraysStep 7: Make equal groups -	Division         Can you recognise equal groups?         Can you make equal groups?         Can you add equal groups?         Can you identify the multiplication symbol is used for multiplying?         Can you solve multiplication sentences?         Can you use arrays to answer multiplication questions?         Can you make equal groups using your knowledge of	•	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (*), division (÷) and equals (=) signs Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (*), division (÷) and equals (=) signs Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot Calculate mathematical statements for multiplication and division
Number:Multiplication andStep 1: Recognise equal groupsStep 2: Make equal groupsStep 3: Add equal groupsStep 4:Introduce themultiplication symbolStep 5: Multiplication sentencesStep 6: Use arraysStep 7: Make equal groups -grouping	Division         Can you recognise equal groups?         Can you make equal groups?         Can you add equal groups?         Can you identify the multiplication symbol is used for multiplying?         Can you solve multiplication sentences?         Can you use arrays to answer multiplication questions?         Can you make equal groups using your knowledge of division?	•	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (*), division (÷) and equals (=) signs Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (*), division (÷) and equals (=) signs Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the
Number:       Multiplication and         Step 1: Recognise equal groups         Step 2: Make equal groups         Step 3: Add equal groups         Step 4:       Introduce the         multiplication symbol         Step 5:       Multiplication sentences         Step 6:       Use arrays         Step 7:       Make equal groups -         grouping       Step 8:         Make equal groups -       sharing	Division         Can you recognise equal groups?         Can you make equal groups?         Can you add equal groups?         Can you identify the multiplication symbol is used for multiplying?         Can you solve multiplication sentences?         Can you use arrays to answer multiplication questions?         Can you make equal groups using your knowledge of division?         Can you explore division through sharing?	•	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (*), division (÷) and equals (=) signs Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (*), division (÷) and equals (=) signs Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (*), division (÷) and equals (=) signs
Number: Multiplication and 1 Step 1: Recognise equal groups Step 2: Make equal groups Step 3: Add equal groups Step 4: Introduce the multiplication symbol Step 5: Multiplication sentences Step 6: Use arrays Step 7: Make equal groups - grouping Step 8: Make equal groups - sharing Step 9: The 2 times-tables	Division         Can you recognise equal groups?         Can you make equal groups?         Can you add equal groups?         Can you identify the multiplication symbol is used for multiplying?         Can you solve multiplication sentences?         Can you use arrays to answer multiplication questions?         Can you make equal groups using your knowledge of division?         Can you explore division through sharing?         Can you explore the 2 times-table?	•	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (*), division (÷) and equals (=) signs Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (*), division (÷) and equals (=) signs Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (*), division (÷) and equals (=) signs Recall and use multiplication and division facts for the 2, 5 and 10

Step 11: Doubling and halving	Can you double and halve numbers?		
Step 12: Odd and even numbers	Can you identify odd and even numbers?		
Step 13: The 10 times-tables	Can you explore the 10 times-table?		
Step 14: Divide by 10	Can you divide by 10?		
Step 15: The 5 times-table	Can you explore the 5 times-table?		
Step 16: Divide by 5	Can you divide by 5?		
Step 17: The 5 and 10 times-tables	Can you identify the relationship between the 5 and 10		
	times-table?		
Measurement: Length and H	eight		
Step 1: Measure in centimetres	Can you measure in centimetres?	•	Choose and use appropriate standard units to estimate and
Step 2: Measure in metres	Can you measure in metres?		measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels
Step 3: Compare lengths and heights	Can you compare lengths and heights?	•	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g);
Step 4: Order lengths and heights	Can you order lengths and heights?	•	temperature (°C); capacity (litres/ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and record the results using $>$ , $<$ and =
Step 5: Four operations with lengths and heights	Can you solve length and height problems involving the four operations?	•	Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts
Measurement: Mass, Capaci	ty and Temperature		
Step 1: Compare mass	Can you compare the mass of two or more objects?	•	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and record the results using >, < and =
Step 2: Measure in grams	Can you measure in grams?	٠	Choose and use appropriate standard units to estimate and
Step 3: Measure in kilograms	Can you measure in kilograms?		measure length/height in any direction (m/cm); mass (kg/g);
Step 4: Four operations with mass	Can you solve mass problems involving the four operations?		temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
	operations?		unit, using rulers, scales, thermometers and measuring vessels

Step 5: Compare volume and capacity	Can you compare volume and capacity?	•	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and record the results using >, < and =
Step 6: Measure in millilitres	Can you measure in millilitres?	•	Choose and use appropriate standard units to estimate and
Step 7: Measure in litres	Can you measure in litres?		measure length/height in any direction (m/cm); mass (kg/g);
Step 8: Four operations with	Can you solve volume and capacity problems involving		temperature (°C); capacity (litres/ml) to the nearest appropriate
volume and capacity	the four operations?		unit, using rulers, scales, thermometers and measuring vessels
Step 9: Temperature	Can you read thermometers to identify the temperature?		
Number: Fractions			
Step 1: Introduction to parts and	Can you explore parts and whole of a number?	•	Recognise, find, name and write fractions $1/3$ , $\frac{1}{4}$ , $2/4$ and $3/4$ of
whole	, , , ,		a length, shape, set of objects or quantity
Step 2: Equal and unequal parts	Can you explore equal and unequal parts?		
Step 3: Recognise a half	Can you recognise a half as a fraction?		
Step 4: Find a half	Can you find a half?	•	Recognise, find, name and write fractions $1/3$ , $\frac{1}{4}$ , $2/4$ and $3/4$ of a length, shape, set of objects or quantity Write simple fractions, for example $1/2$ of 6 = 3 and recognise the equivalence of $2/4$ and $1/2$
Step 5: Recognise a quarter	Can you recognise a quarter as a fraction?	•	Recognise, find, name and write fractions $1/3$ , $\frac{1}{4}$ , $2/4$ and $3/4$ of a length, shape, set of objects or quantity
Step 6: Find a quarter	Can you find a quarter?	•	Recognise, find, name and write fractions 1/3, $\frac{1}{4}$ , 2/4 and 3/4 of a length, shape, set of objects or quantity Write simple fractions, for example 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2
Step 7: Recognise a third	Can you recognise a third as a fraction?	•	Recognise, find, name and write fractions $1/3$ , $\frac{1}{4}$ , $2/4$ and $3/4$ of a length, shape, set of objects or quantity
Step 8: Find a third	Can you find a third?	•	Recognise, find, name and write fractions $1/3$ , $\frac{1}{4}$ , $2/4$ and $3/4$ of
Step 9: Find the whole	Can you use a fraction of an amount to find the whole?	1	a length, shape, set of objects or quantity
		•	Write simple fractions, for example $1/2$ of $6 = 3$ and recognise the equivalence of $2/4$ and $1/2$
Step 10: Unit fractions	Can you explore the concept of unit fractions?	•	Recognise, find, name and write fractions $1/3$ , $\frac{1}{4}$ , $2/4$ and $3/4$ of
Step 11: Non-unit fractions	Can you explore the concept of non-unit fractions?		a length, shape, set of objects or quantity

Step 12: Recognise the equivalence of half and two quarters	Can you recognise the equivalence of a half and two quarters?	•	Recognise, find, name and write fractions 1/3, $\frac{1}{4}$ , 2/4 and 3/4 of a length, shape, set of objects or quantity Write simple fractions, for example 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2
Step 13: Recognise three-quarters	Can you recognise three-quarters as a fraction?	•	Recognise, find, name and write fractions $1/3$ , $\frac{1}{4}$ , $2/4$ and $3/4$ of a length, shape, set of objects or quantity
Step 14: Find three-quarters	Can you find three-quarters?	•	Recognise, find, name and write fractions 1/3, $\frac{1}{4}$ , 2/4 and 3/4 of a length, shape, set of objects or quantity Write simple fractions, for example 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2
Step 15: Count in fractions up to a whole	Can you count in fractions up to 1 whole?	•	Recognise, find, name and write fractions 1/3, $\frac{1}{4}$ , 2/4 and 3/4 of a length, shape, set of objects or quantity
Measurement: Time			
Step 1: O'clock and half past	Can you tell the time to the hour and half past the hour?	•	Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clockface to show these times
Step 2: Quarter past and quarter to	Can you tell the time to quarter past and quarter to?		
Step 3: Tell time past the hour	Can you tell the time past the hour?		
Step 4: Tell time to the hour	Can you tell the time to the hour?		
Step 5: Tell the time to 5 minutes	Can you tell the time to 5 minutes?		
Step 6: Minutes in an hour	Can you identify how many minutes in an hour?		Know the number of minutes in an hour and the number of hours
Step 7: Hours in a day	Can you identify how many hour in 1 day?		in a day
Statistics			
Step 1: Make tally charts	Can you use tally charts to systematically record data?	•	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity
Step 2: Tables	Can you explore the use of simple tables?	•	Interpret and construct simple pictograms, tally charts, block
Step 3: Block diagrams	Can you use block diagrams to represent data?		diagrams and simple tables
Step 4: Draw pictograms (1-1)	Can you draw pictograms tor represent data?		Ask and answer simple questions by counting the number of
Step 5: Interpret pictograms (1-1)	Can you interpret pictograms?		objects in each category and sorting the categories by quantity
Step 6: Draw pictograms (2, 5 and 10)	Can you draw pictograms using your multiples of 2, 5 and 10?	•	Ask and answer questions about totalling and comparing categorical data
Step 7: Interpret pictograms (2, 5 and 10)	Can you interpret pictograms using your multiples of 2, 5 and 10?		
Geometry: Position and Dire	ction		

Step 1: Language of position	Can you use the language of position accurately?	•	Use mathematical vocabulary to describe position, direction and			
Step 2: Describe movement Can you use your understanding of position to describe			movement, including movement in a straight line and distinguishi			
movement?			between rotation as a turn and in terms of right angles for			
Step 3: Describe turns	Can you describe turns?		quarter, half and three-quarter turns (clockwise and			
Step 4: Describe movement and	Can you describe movement and turns?		anticlockwise)			
turns						
Step 5: Shape patterns with turns   Can you shape patterns with turns?						
Consolidation						