



Year 2 Maths Long Term Map

Autumn	Number Place value	Number Addition and subtraction	Geometry Shape		
Spring	Measurement Money	Number Multiplication and division	Measurement Length and height	Measurement Mass, capacity and temperature	
Summer	Number Fractions	Measurement Time	Statistics	Geometry Position and direction	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 style="list-style-type: none"> Read and write numbers from 1 to 20 in numerals and words (Y1) Read and write numbers to at least 100 in numerals and in words
Step 2: Count objects to 100 by making 10s	Can you count objects to 100 by making 10s?	<ul style="list-style-type: none"> Read and write numbers to at least 100 in numerals and in words Identify, represent and estimate numbers using different representations, including the number line Count in steps of 2, 3 and 5 from 0, and in 10s from any number, forward and backward
Step 3: Recognise tens and ones	Can you recognise tens and ones?	<ul style="list-style-type: none"> Read and write numbers to at least 100 in numerals and in words Identify, represent and estimate numbers using different representations, including the number line
Step 4: Use a place value chart	Can you explore and use a place value chart?	<ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations, including the number line Recognise the place value of each digit in a 2-digit number (tens, ones)
Step 5: Partition numbers to 100	Can you partition numbers to 100?	
Step 6: Write numbers to 100 in words	Can you write numbers to 100 in words?	<ul style="list-style-type: none"> Read and write numbers to at least 100 in numerals and in words Recognise the place value of each digit in a digit number tens, ones
Step 7: Flexibly partition numbers to 100	Can you partition numbers to 100 in different ways?	<ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations, including the number line Recognise the place value of each digit in a 2-digit number (tens, ones)
Step 8: Write numbers to 100 in expanded form	Can you write numbers to 100 in expanded form?	
Step 9: 10s on the number line to 100	Can you position 10s on a number line to 100?	<ul style="list-style-type: none"> Count in steps of 2, 3 and 5 from 0 and in 10s from any number, forward and backward Identify, represent and estimate numbers using different representations, including the number line
Step 10: 10s and 1s on the number line to 100	Can you position 10s and 1s on a number line to 100?	
Step 11: Estimate numbers on a number line	Can you estimate numbers on a number line?	
Step 12: Compare objects	Can you compare objects?	<ul style="list-style-type: none"> Recognise the place value of each digit in a 2-digit number (tens, ones)
Step 13: Compare numbers	Can you compare numbers?	

Step 14: Order objects and numbers	Can you order objects and numbers?	<ul style="list-style-type: none"> 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? Can you count in 5s? Can you count in 2s?	
Step 16: Count in 3s	Can you count in 3s?	
Number: Addition and Subtraction		
Step 1: Bonds to 10	Can you identify number bonds to 10?	<ul style="list-style-type: none"> Represent and use number bonds and related subtraction facts within 20 (Y1) Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
Step 2: Fact families - addition and subtraction bonds to 20	Can you represent and use numbers bonds to 20?	
Step 3: Related facts	Can you identify related facts for both addition and subtraction calculations?	<ul style="list-style-type: none"> 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?	<ul style="list-style-type: none"> 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
Step 6: Add by making 10	Can you use your numbers bonds to 10 to add numbers within 20?	
Step 7: Add three 1-digit numbers	Can you add three 1-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 number from a 2-digit number (across a 10)	Can you subtract a 1-digit number from a 2-digit number?	
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 (not across a 10)	Can you add two 2-digit numbers?	
Step 16: Add two 2-digit numbers (across a 10)	Can you add two 2-digit numbers across a 10?	
Step 17: Subtract two 2-digit numbers (not across a 10)	Can you subtract two 2-digit numbers?	

Step 18: Subtract two 2-digit numbers (across a 10)	Can you subtract two 2-digit numbers across a 10?	<ul style="list-style-type: none"> 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 Compare and order numbers from 0 up to 100; use $<$, $>$ and $=$ signs 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
Step 19: Mixed addition and subtraction	Can you solve problems involving addition and subtraction?	
Step 20: Compare number sentences	Can you compare number sentences?	
Step 21: Missing number problems	Can you solve missing number problems?	

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 style="list-style-type: none"> Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line
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 a 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 style="list-style-type: none"> Compare and sort common 2-D and 3-D shapes and everyday objects
Step 8: Count faces on 3-D shapes	Can you count faces on 3-D shapes?	<ul style="list-style-type: none"> Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces Identify 2-D shapes on the surface of 3-D shapes Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
Step 9: Count edges on 3-D shapes	Can you count edges on 3-D shapes?	
Step 10: Count vertices on 3-D shapes	Can you count vertices on 3-D shapes?	
Step 11: Sort 3-D shapes	Can you sort 3-D shapes?	<ul style="list-style-type: none"> Compare and sort common 2-D and 3-D shapes and everyday objects
Step 12: Make patterns with 2-D and 3-D shapes	Can you make patterns with 2-D and 3-D shapes?	<ul style="list-style-type: none"> Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line

		<ul style="list-style-type: none"> Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
Measurement: Money		
Step 1: Count money - pence	Can you count money in pence?	<ul style="list-style-type: none"> Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change
Step 2: count money - pounds (notes and coins)	Can you count money using coins and notes?	
Step 3: Count money - pounds and pence	Can you count money using pounds and pence?	
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 Division		
Step 1: Recognise equal groups	Can you recognise equal groups?	<ul style="list-style-type: none"> Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs
Step 2: Make equal groups	Can you make equal groups?	
Step 3: Add equal groups	Can you add equal groups?	
Step 4: Introduce the multiplication symbol	Can you identify the multiplication symbol is used for multiplying?	
Step 5: Multiplication sentences	Can you solve multiplication sentences?	
Step 6: Use arrays	Can you use arrays to answer multiplication questions?	<ul style="list-style-type: none"> Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
Step 7: Make equal groups - grouping	Can you make equal groups using your knowledge of division?	
Step 8: Make equal groups - sharing	Can you explore division through sharing?	<ul style="list-style-type: none"> Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs
Step 9: The 2 times-tables	Can you explore the 2 times-table?	
Step 10: Divide by 2	Can you divide by 2?	

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 Height

Step 1: Measure in centimetres	Can you measure in centimetres?	<ul style="list-style-type: none"> Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); capacity (litres/ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); 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 $=$ 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
Step 2: Measure in metres	Can you measure in metres?	
Step 3: Compare lengths and heights	Can you compare lengths and heights?	
Step 4: Order lengths and heights	Can you order lengths and heights?	
Step 5: Four operations with lengths and heights	Can you solve length and height problems involving the four operations?	

Measurement: Mass, Capacity and Temperature

Step 1: Compare mass	Can you compare the mass of two or more objects?	<ul style="list-style-type: none"> Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); 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 $=$ Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
Step 2: Measure in grams	Can you measure in grams?	
Step 3: Measure in kilograms	Can you measure in kilograms?	
Step 4: Four operations with mass	Can you solve mass problems involving the four operations?	

Step 5: Compare volume and capacity	Can you compare volume and capacity?	<ul style="list-style-type: none"> Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); 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?	
Step 7: Measure in litres	Can you measure in litres?	
Step 8: Four operations with volume and capacity	Can you solve volume and capacity problems involving the four operations?	
Step 9: Temperature	Can you read thermometers to identify the temperature?	
Number: Fractions		
Step 1: Introduction to parts and whole	Can you explore parts and whole of a number?	<ul style="list-style-type: none"> 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 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?	<ul style="list-style-type: none"> 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?	
Step 6: Find a quarter	Can you find a quarter?	<ul style="list-style-type: none"> 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?	
Step 8: Find a third	Can you find a third?	<ul style="list-style-type: none"> 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 9: Find the whole	Can you use a fraction of an amount to find the whole?	
Step 10: Unit fractions	Can you explore the concept of unit fractions?	
Step 11: Non-unit fractions	Can you explore the concept of non-unit fractions?	<ul style="list-style-type: none"> 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 12: Recognise the equivalence of half and two quarters	Can you recognise the equivalence of a half and two quarters?	<ul style="list-style-type: none"> Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity Write simple fractions, for example $\frac{1}{2}$ of $6 = 3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$
Step 13: Recognise three-quarters	Can you recognise three-quarters as a fraction?	<ul style="list-style-type: none"> Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity
Step 14: Find three-quarters	Can you find three-quarters?	<ul style="list-style-type: none"> Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity Write simple fractions, for example $\frac{1}{2}$ of $6 = 3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$
Step 15: Count in fractions up to a whole	Can you count in fractions up to 1 whole?	<ul style="list-style-type: none"> Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ 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?	<ul style="list-style-type: none"> 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?	<ul style="list-style-type: none"> Know the number of minutes in an hour and the number of hours in a day
Step 7: Hours in a day	Can you identify how many hour in 1 day?	

Statistics

Step 1: Make tally charts	Can you use tally charts to systematically record data?	<ul style="list-style-type: none"> 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 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 Ask and answer questions about totalling and comparing categorical data
Step 2: Tables	Can you explore the use of simple tables?	
Step 3: Block diagrams	Can you use block diagrams to represent data?	
Step 4: Draw pictograms (1-1)	Can you draw pictograms tor represent data?	
Step 5: Interpret pictograms (1-1)	Can you interpret pictograms?	
Step 6: Draw pictograms (2, 5 and 10)	Can you draw pictograms using your multiples of 2, 5 and 10?	
Step 7: Interpret pictograms (2, 5 and 10)	Can you interpret pictograms using your multiples of 2, 5 and 10?	

Geometry: Position and Direction

Step 1: Language of position	Can you use the language of position accurately?	<ul style="list-style-type: none"> Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise)
Step 2: Describe movement	Can you use your understanding of position to describe movement?	
Step 3: Describe turns	Can you describe turns?	
Step 4: Describe movement and turns	Can you describe movement and turns?	
Step 5: Shape patterns with turns	Can you shape patterns with turns?	
Consolidation		