Year 2 Mathematics Content Map				
Unit and time	Skill	Reasoning	Problem Solving	
	TERM 1			
Place Value within 100  4 weeks  White Rose NCETM units 1.8 and 1.9	<ul> <li>Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward</li> <li>Recognise the place value of each digit in a two-digit number (tens, ones)</li> <li>Identify, represent and estimate numbers using different representations, including the number line (include scales of 1, 2, 5 and 10)</li> <li>Compare and order numbers from 0 up to 100; use and = signs (link to measure)</li> <li>Read and write numbers to at least 100 in numerals and in words</li> <li>Use place value and number facts to solve problems. (link to money/ measure)</li> </ul>	<ul> <li>True or False?</li> <li>Odd one out</li> <li>Ordering</li> </ul>	Find all the possibilities	
Addition and Subtraction (within 20)  3 weeks  White Rose – up to step 11 (only using numbers to 20)  NCETM units 2 and 3	<ul> <li>Solve problems with addition and subtraction (include adding 3 numbers and bringing the 10):         <ul> <li>using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> <li>applying their increasing knowledge of mental and written methods</li> </ul> </li> <li>*Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 20* This is the focus of this 3 weeks. Children should recall all number bonds to and within 10 and use these to reason with and calculate bonds to and within 20, recognising other associated additive relationships (7+3 = 10 then 17+3=20: If 7-3=4 then 17-3=14 leading to 14+3=17 and 3+14=17)</li> <li>Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot</li> </ul>	<ul> <li>Hard and easy questions</li> <li>Fact families</li> </ul>		
	TERM 2			
Measure (length and height)  1 week  White Rose (Step	<ul> <li>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm);</li> <li>Compare and order lengths and record the results using &gt;, &lt; and =</li> </ul>	Make an     estimate	Looking for patterns	
1-4 not Step 5)  Addition and Subtraction (within 100)  3 weeks  White Rose — from step 12 and including step 5	<ul> <li>Solve problems with addition and subtraction</li> <li>using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> <li>applying their increasing knowledge of mental and written methods</li> <li>Applying their increasing knowledge of mental and written methods</li> </ul>	<ul> <li>What's the missing number? (inverse and fact families)</li> <li>The answer is what's the question?</li> </ul>		

from length and height) NCETM unit 1.13  Shape  3 weeks White Rose NCETM unit 7	<ul> <li>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</li> <li>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:         <ul> <li>a two-digit number and ones</li> <li>a two-digit numbers</li> <li>two two-digit numbers</li> <li>adding three one-digit numbers</li> </ul> </li> <li>Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot</li> <li>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</li> <li>Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line</li> <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, [for example, a circle on a cylinder and a triangle on a pyramid]</li> <li>Compare and sort common 2-D and 3-D shapes and</li> </ul>	<ul> <li>Odd one out</li> <li>Continue the pattern</li> <li>Other possibilities</li> </ul>	
	everyday objects.		
Statistics	TERM 3 - 6 weeks  • interpret and construct simple pictograms, tally	Create a question	
2 weeks  White Rose	<ul> <li>the pret and construct simple pictograms, tally charts, block diagrams and tables</li> <li>ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity</li> <li>ask-and-answer questions about totalling and comparing categorical data</li> </ul>	True or false	Working systematicall y
Multiplication (objectives continue to next term)  4 weeks  White Rose step 1 - 7  NCETM unit 5	<ul> <li>recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</li> <li>calculate mathematical statements for multiplication within the multiplication tables and write them using the multiplication (x) and equals (=) signs</li> <li>solve problems involving multiplication, using materials, arrays, repeated addition, mental methods, and multiplication, including problems in contexts</li> </ul>	True or false  Spot the mistake  Do, then explain	

	TERM 4 — 6 weeks		
Multiplication (continued)  2 weeks  White Rose step 1-7  NCETM unit 5	<ul> <li>recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</li> <li>calculate mathematical statements for multiplication within the multiplication tables and write them using the multiplication (x) and equals (=) signs</li> <li>solve problems involving multiplication, using materials, arrays, repeated addition, mental methods, and multiplication, including problems in contexts</li> </ul>	Missing number Prove it	Visualising
Division  2 weeks  White Rose step 8 and 9  NCETM unit 6	<ul> <li>calculate mathematical statements for division within the multiplication tables and write them using the division (÷) and equals (=) signs</li> <li>solve problems involving division, using materials, mental methods, and multiplication and division facts, including problems in contexts</li> </ul>	Making links Prove it	
Measure — mass, capacity, temperature  2 weeks  White Rose  NCETM unit 14	<ul> <li>choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm) (revisit briefly); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</li> <li>compare and order lengths (revisit), mass, volume/capacity and record the results using &gt;, &lt; and =</li> </ul>	Do, then explain What's the same? What's different?	
	TERM 5 — 4 ½ weeks		
Time  1 ½ weeks  White Rose  NCETM unit 11	<ul> <li>compare and sequence intervals of time</li> <li>tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times</li> <li>know the number of minutes in an hour and the number of hours in a day</li> </ul>	The answer is what's the question? What do you notice?	Conjecturing and generalising
Fractions  3 weeks  White Rose  NCETM unit 10	<ul> <li>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</li> <li>write simple fractions, for example \$\frac{1}{2}\$ of 6 = 3 and recognise the equivalence of \$\frac{2}{4}\$ and \$\frac{1}{2}\$</li> </ul>	Odd one out  Spot the mistake  What do you notice?	
Multiplication and division  3 weeks	<ul> <li>TERM 6 - 6 weeks</li> <li>recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</li> </ul>		Reasoning and convincing

White Rose (revisit steps where needed) NCETM unit 13	<ul> <li>calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs</li> <li>show that multiplication of 2 numbers can be done in any order (commutative) and division of 1 number by another cannot</li> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and</li> </ul>		
	division facts, including problems in contexts		
Money	<ul> <li>recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular</li> </ul>	Possibilities	
2 weeks	value		
White Rose	<ul> <li>find different combinations of coins that equal the same amounts of money</li> </ul>		
NCETM unit 11	<ul> <li>solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</li> </ul>		
Position and	order and arrange combinations of mathematical	What comes next?	
direction	objects in patterns and sequences		
1 week	<ul> <li>use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation</li> </ul>		
White Rose	as a turn and in terms of right angles for quarter,		
NCETM unit 12	half and three-quarter turns (clockwise and anti- clockwise)		