Year 4 Mathematics Content Map				
Unit and time	Skill	Reasoning	Problem Solving	
	TERM 1			
Addition and Subtraction (Column method review — 3 digit numbers only)  1 week  NCETM — unit 1 (you could adapt White Rose too)	<ul> <li>add and subtract numbers with up to 3 digits using the formal written methods of columnar addition and subtraction where appropriate</li> <li>estimate and use inverse operations to check answers to a calculation</li> <li>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</li> </ul>	Make an estimate		
Place Value	recognise the place value of each digit in a four-digit	Continue the pattern		
5 weeks	number (1,000s, 100s, 10s, and 1s)	Do, then explain		
NCETM – unit 2 White Rose	<ul> <li>count in multiples of 1,000</li> <li>find 1,000 more or less than a given number</li> <li>order and compare numbers beyond 1,000</li> </ul>	Possible answers		
	identify, represent and estimate numbers using different representations			
	• round any number to the nearest 10, 100 or 1,000			
	solve number and practical problems that involve all of the above and with increasingly large positive numbers			
	count backwards through 0 to include negative numbers			
	<ul> <li>read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value</li> </ul>			
Measurement - Area	Find the area of rectilinear shapes by counting squares	Always, sometimes, never		
1 week White Rose				
	TERM 2			
Addition and Subtraction	<ul> <li>add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li> </ul>	Make an estimate  Convince me	Exploring and noticing	
2 weeks	estimate and use inverse operations to check answers			
White Rose (apply principles from NCETM unit 1 where appropriate)	<ul> <li>to a calculation</li> <li>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</li> </ul>			
Multiplication and division	• recall multiplication and division facts for multiplication tables – 3, 6 and 9 (recap 2, 45, 8 and	Fact families		

		-	
(3,6 and 9 times tables only)	10 – 3 taught in year 3 – focus on the relationship between the 3, 6 and 9 x)	What do you notice?	
3 weeks	<ul> <li>use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers</li> </ul>		
NCETM unit 4 White Rose (step 1 -6 only)	recognise and use factor pairs and commutativity in mental calculations		
Measurement — perimeter	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	Always, sometimes, never	
2 weeks		Convince me	
NCETM unit 3 White Rose			
	TERM 3 — 6 weeks		
Multiplication	• count in multiples of 6, 7, 9, 25 and 1,000	Estimate (size of an	
and division	<ul> <li>recall multiplication and division facts for multiplication tables up to 12 x 12</li> </ul>	answer)	Working systematicall
6 weeks	<ul> <li>use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying</li> </ul>	Prove it	у
NCETM unit 5	together 3 numbers		
and 6 White Rose	recognise and use factor pairs and commutativity	Hard and easy	
(Multiplication B)	in mental calculations	questions	
	<ul> <li>multiply two-digit and three-digit numbers by a one-digit number using formal written layout</li> </ul>	•	
	<ul> <li>solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects</li> </ul>		
	ensure you cover previously taught objectives and include measure in problems		
	TERM 4 — 6 weeks		
Statistics	interpret and present discrete and continuous	What's the same?	Visualising
1 weeks White Rose	data using appropriate graphical methods, including bar charts and time graphs  solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	What's different?	
Fractions	<ul> <li>recognise and show, using diagrams, families of</li> </ul>	True or false	
	common equivalent fractions		
5 weeks	• count up and down in hundredths; recognise that hundredths arise when dividing an object by 100	Odd one out	
NCETM unit 8 and 9	<ul><li>and dividing tenths by 10</li><li>solve problems involving increasingly harder</li></ul>	Spot the mistake	
White Rose	fractions to calculate quantities, and fractions to		

Decimals  4 weeks White Rose  Time 1/2 week	divide quantities, including non-unit fractions where the answer is a whole number  add and subtract fractions with the same denominator  solve simple measure and money problems involving fractions  TERM 5 - 4 ½ weeks  recognise and write decimal equivalents of any number of tenths or hundreds  recognise and write decimal equivalents to $\frac{1}{4}$ , $\frac{1}{2}$ , $\frac{3}{4}$ find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths  round decimals with 1 decimal place to the nearest whole number  compare numbers with the same number of decimal places up to 2 decimal places  solve simple measure and money problems involving fractions and decimals to 2 decimal places  read, write and convert time between analogue and digital 12- and 24-hour clocks	Another and another Do, then explain Continue the pattern  What do you notice?	Conjecturing and generalising
NCETM unit 11 White Rose			
	TERM 6 — 6 weeks		
Time  1 week  NCETM unit 11  White Rose	<ul> <li>convert between different units of measure [for example, kilometre to metre; hour to minute]</li> <li>estimate, compare and calculate different measures</li> <li>solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days</li> </ul>	What else do you know?	Reasoning and convincing
Money  1 week  White Rose	<ul> <li>convert between different units of measure</li> <li>estimate, compare and calculate different measures, including money in pounds and pence</li> </ul>	The answer is what's the question?	
Shape 2 weeks	<ul> <li>compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li> </ul>	Visualising What's the same? What's different?	

NCETM unit 10 White Rose	<ul> <li>identify acute and obtuse angles and compare and order angles up to 2 right angles by size</li> <li>identify lines of symmetry in 2-D shapes presented in different orientations</li> <li>complete a simple symmetric figure with respect to a specific line of symmetry</li> </ul>	
Position and direction  1 week  NCETM unit 7 White Rose	<ul> <li>describe positions on a 2-D grid as coordinates in the first quadrant</li> <li>describe movements between positions as translations of a given unit to the left/right and up/down</li> <li>plot specified points and draw sides to complete a given polygon</li> </ul>	Working backwards
Statistics  1 week  White Rose	<ul> <li>interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs</li> <li>solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</li> </ul>	Create a question