Autumn	Number Place value		Number Addition and subtraction			Measurement	Number Multiplication and division A		Consolidation		
Spring	Number Multiplication and division		Measure Leng and perin	th	Number Fractions				Number Decir	nals A	
Summer	Number Decimals B	Measure Mon e		Measure Time		Consolidation	Geometi Shap		Statistics	Geomet Posit and direc	ion

White Rose Steps			
Number: Place Value	Can you	National Curriculum Objectives	
Step 1: Represent numbers to 1,000	Can you represent numbers to 1000?	 Read and write numbers up to 1,000 in numerals and words (Y3) Identify, represent and estimate numbers using different representations 	
Step 2: Partition numbers to 1,000	Can you partition numbers up to 1000?	 Identify, represent and estimate numbers using different representations Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) (Y3) 	
Step 3: Number line to 1,000	Can you label, identify and find missing values on number lines to 1000?	Identify, represent and estimate numbers using different representations	
Step 4: Thousands	Can you count in thousands and explore multiples of a thousand?	• Count in multiples of 6, 7, 9, 25 and 1,000	
Step 5: Represent numbers to 10,000	Can you represent numbers to 10,000?	 Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens and ones) 	
Step 6: Partition numbers to 10,000	Can you partition numbers to 10,000 into thousands, hundreds, tens and ones?	Identify, represent and estimate numbers using different representations	
Step 7: Flexible partitioning of numbers to 10,000	Can you partition numbers up to 10,000 in different ways?		
Step 8: Find 1, 10, 100, 1,000 more or less	Can you find 1, 10, 100, 1,000 more or less than a number up to 10,000?	Find 1,000 more or less than a given number	
Step 9: Number line to 10,000	Can you explore number lines to 10,000?	Identify, represent and estimate numbers using different	
Step 10: Estimate on a number line to 10,000	Can you estimate on a number line to 10,000?	representationsOrder and compare numbers beyond 1,000	
Step 11: Compare numbers to 10,000	Can you compare numbers to 10,000?	Order and compare numbers beyond 1,000	
Step 12: Order numbers to 10,000	Can you order numbers to 10,000?		
Step 13: Roman Numerals	Can you read and write Roman numerals to 100?	Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value	
Step 14: Round to the nearest 10	Can you round to the nearest 10?	Round any number to the nearest 10, 100 or 1,000	
Step 15: Round to the nearest 100	Can you round to the nearest 100?		
Step 16: Round to the nearest 1,000	Can you round to the nearest 1000?		

Step 17: Round to the nearest 10, 100 or 1,000	Can you round to the nearest 10, 100 or 1000?		
Number: Addition and Subtr	action		
Step 1: Add and subtract 1s, 10s, 100s and 1000s	Can you add and subtract 1s, 10s, 100s and 1000s?	•	Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where
Step 2: Add up to two 4-dgiit numbers - no exchange	Can you add up to two 4-digit numbers with no exchanges?	•	appropriate Solve addition and subtraction two-step problems in contexts,
Step 3: Add two 4-digit numbers - one exchange	Can you add two 4-digit numbers with one exchange?		deciding which operations and methods to use and why
Step 4: Add two 4-digit numbers - more than one exchange	Can you add two 4-digit numbers with more than one exchange?		
Step 5: Subtract two 4-dgiit numbers - no exchange	Can you subtract two 4-digit numbers with no exchanges?		
Step 6: Subtract two 4-digit numbers - one exchange	Can you subtract two 4-digit numbers with one exchange?		
Step 7: subtract two 4-digit numbers - more than one exchange	Can you subtract two 4-digit numbers with more than one exchange?		
Step 8: Efficient subtraction	Can you subtract using an efficient method?	•	Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate
Step 9: Estimate answers	Can you estimate answers to addition and subtraction calculations using number lines and rounding?	•	Estimate and use inverse operations to check answers to a calculation
Step 10: Checking strategies	Can you use the inverse to check your calculations?		
Measurement: Area			
Step 1: What is area?	Can you explore different ways of working out area of a shape?	•	Find the area of rectilinear shapes by counting squares
Step 2: Count squares	Can you count squares inside a shape to calculate area?		
Step 3: Make Shapes	Can you calculate area and draw rectilinear shapes with a specific area?		
Step 4: Compare areas	Can you compare the areas of rectilinear shapes?		
Number: Multiplication and l	Division A		
Step 1: Multiples of 3	Can you count in and identify multiples of 3?	•	Recall multiplication and division facts for multiplication tables up
Step 2: Multiply and divide by 6	Can you multiply and divide by 6?		to 12 × 12
Step 3: 6 times-table and division facts	Can you recall the 6 times table and related division facts?	•	Recognise and use factor pairs and commutativity in mental calculations
Step 4: Multiply and divide by 9	Can you multiply and divide by 9?		

Step 5: 9 times-table and division facts	Can you recall the 9 times table and related division facts?		
Step 6: The 3, 6 and 9 times- tables	Can you make links between the 3, 6 and 9 timestables?		
Step 7: Multiply and divide by 7	Can you multiply and divide by 7?	•	Count in multiples of 6, 7, 9, 25 and 1,000
Step 8: 7 times-table and division	Can you recall the 7 times table and related division	•	Recall multiplication and division facts for multiplication tables up
facts	facts?		to 12 × 12
Step 9: 11 times-table and division	Can you recall the 11 times table and related division	•	Recall multiplication and division facts for multiplication tables up
facts	facts?		to 12 × 12
Step 10: 12 times-table and	Can you recall the 12 times table and related division	•	Recognise and use factor pairs and commutativity in mental
division facts	facts?		calculations
Step 11: Multiply by 1 and 0	Can you multiply by 1 and 0?	•	Use place value, known and derived facts to multiply and divide
Step 12: Divide a number by 1 and	Can you divide a number by 1 and itself?		mentally, including: multiplying by 0 and 1; dividing by 1; multiplying
itself			together three numbers
Step 13: Multiply three numbers	Can you multiply 3 numbers together?		
Consolidation			
Number: Multiplication and	Division B		
Step 1: Factor pairs	Can you find all of the factor pairs of a given number?	•	Recognise and use factor pairs and commutativity in ment-
Step 2: Use factor pairs	Can you use factor pairs to complete equivalent		calculations
	calculations?		
Step 3: Multiply by 10	Can you multiply whole numbers by 10?	•	Recall multiplication and division facts for multiplication tables up
Step 4: Multiply by 100	Can you multiply whole numbers by 100?		to 12 × 12
Step 5: Divide by 10	ep 5: Divide by 10 Can you divide whole numbers by 10?		Multiply and divide whole numbers and those involving decimals by
Step 6: Divide by 100	Can you divide whole numbers by 100?		10, 100 and 1,000 (Y5)
Step 7: Related facts -	Can you use known multiplication and division facts to	•	Solve problems involving multiplying and adding, including using the
multiplication and division	help calculated related facts?		distributive law to multiply 2-digit numbers by 1 digit, integer
			scaling problems and harder correspondence problems such as n
			objects are connected to m objects
Step 8: Informal written methods	Can you multiply using an informal method?	•	Solve problems involving multiplying and adding, including using the
for multiplication			distributive law to multiply 2-digit numbers by 1 digit, integer
			scaling problems and harder correspondence problems such as n
			objects are connected to m objects
		•	Recognise and use factor pairs and commutativity in mental
			calculations
Step 9: Multiply a 2-digit number	Can you multiply a 2-digit number by a 1-digit number?	•	Multiply 2-digit and 3-digit numbers by a 1-digit number using
by a 1-digit number			formal written layout

Step 2: Equivalent lengths (kilometres and metres) Step 3: Perimeter on a grid					
Step 11: Divide a 2-digit number by a 1-digit number? by a 1-digit number? by a 1-digit number (2) Step 13: Divide a 2-digit number (2) Step 13: Divide a 3-digit number (2) Step 13: Divide a 3-digit number (2) Step 13: Divide a 3-digit number (3) Step 13: Divide a 3-digit number (2) Step 14: Correspondence problems (2) Step 15: Efficient multiplication to work out the number of possible combinations? Step 15: Efficient multiplication Can you use the most efficient multiplication method to solve a problem? Step 15: Efficient multiplication Can you use the most efficient multiplication method to solve a problem? Step 15: Efficient multiplication Measurement: Length and Perimeter Step 1: Measure in kilometres and metres? Step 2: Equivalent lengths (kilometres and metres) Kilometres and metres) Step 3: Perimeter of a rectangle. Step 5: Perimeter of rectangles? Can you calculate the perimeter of rectangles? Can you measure and calculate the perimeter of rectilinear shapes? Step 7: Calculate the perimeter of rectilinear shapes? Step 6: Find missing lengths in rectilinear shapes? Step 7: Calculate the perimeter of rectilinear shapes? Step 8: Perimeter of a rectangle can you calculate the perimeter of rectilinear shapes? Step 9: Perimeter of regular polygons Step 9: Perimeter of polygons Step 9: Perimeter of polygons Step 1: Understand the whole Can you calculate the whole and its equal parts? Length and Perimeter of rectilinear shapes? Step 1: Measure and calculate the perimeter of rectilinear shapes? Step 1: Understand the whole Can you calculate the whole and its equal parts? Step 3: Partinion a mixed number Can you capacitin a mixed number? Can you capacitin a mixed number of rectilinear mixed number? Step 4: Number lines with mixed Can you perimeter mixed numbers on a number line? Step 4: Number lines with mixed Can you perimeter mixed numbers on a number line?	, , , ,	Can you multiply a 3-digit number by a 1-digit number?			
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Step 3: Partition a mixed number	Step 1: Understand the whole	Can you investigate the whole and its equal parts?	•		
Step 4: Number lines with mixed Can you represent mixed numbers on a number line? Progress guidance.	Step 2: Count beyond 1	Can you count in fractions beyond 1?	Th	nis small step is not taken from the Year 4 National Curriculum. It	
	Step 3: Partition a mixed number	Can you partition a mixed number?	-		
numbers	Step 4: Number lines with mixed	Can you represent mixed numbers on a number line?		rogress guidance.	
	numbers				

Step 5: Compare and order mixed numbers	Can you compare and order mixed numbers?	
Step 6: Understand improper fractions	Can you use diagrams and number lines to describe improper fractions?	
Step 7: Convert mixed numbers to improper fractions	Can you convert mixed numbers to improper fractions?	
Step 8: Convert improper fractions to mixed numbers	Can you convert improper fractions to mixed numbers?	
Step 9: Equivalent fractions on a number line	Can you represent equivalent fractions on a number line?	 Recognise and show, using diagrams, families of common equivalent fractions
Step 10: Equivalent fraction families	Can you use bar models and fraction walls to find equivalent fact families?	
Step 11: Add two or more fractions	Can you add two or more fractions?	Add and subtract fractions with the same denominator
Step 12: Add fractions and mixed numbers	Can you add fractions and mixed numbers?	
Step 13: Subtract two fractions	Can you subtract two fractions?	
Step 14: Subtract from whole amounts	Can you subtract fractions from whole amounts?	
Step 15: Subtract from mixed numbers	Can you subtract fractions from mixed numbers?	
Number: Decimals A		
Step 1: Tenths as a fraction	Can you recognise tenths as a fraction?	 Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing 1-digit numbers or quantities by 10 (Y3)
Step 2: Tenths as decimals	Can you recognise tenths as decimals?	• Recognise and write decimal equivalents of any number of tenths
Step 3: Tenths on a place value chart	Can you recognise tenths on a place value chart?	or hundredths
Step 4: Tenths on a number line	Can you recognise tenths on a number line?	 Recognise and write decimal equivalents of any number of tenths or hundredths Compare numbers with the same number of decimal places up to 2 decimal places
Step 5: Divide a 1-digit number by 10	Can you divide a 1-digit number by 10?	• Find the effect of dividing a 1- or 2-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths

Step 6: Divide a 2-digit number by 10	Can you divide a 2-digit number by 10?	 Recognise and write decimal equivalents of any number of tenths or hundredths
		• Find the effect of dividing a 1- or 2-digit number by 10 and 100
		identifying the value of the digits in the answer as ones, tenths
		and hundredths
Step 7: Hundredths as fractions	Can you recognise hundredths as fractions?	• Count up and down in hundredths; recognise that hundredths arise
·		when dividing an object by 100 and dividing tenths by 10
		• Recognise and show, using diagrams, families of common equivalent
		fractions
Step 8: Hundredths as decimals	Can you recognise hundredths as decimals?	• Recognise and write decimal equivalents of any number of tenths
Step 9: Hundredths on a place	Can you recognise hundredths on a place value chart?	or hundredths
value chart		Compare numbers with the same number of decimal places up to 2
		decimal places
Step 10: Divide a 1- or 2-digit	Can you divide a 1- or 2-digit number by 100?	 Recognise and write decimal equivalents of any number of tenths
number by 100		or hundredths
		Find the effect of dividing a 1- or 2-digit number by 10 and 100
		identifying the value of the digits in the answer as ones, tenths
		and hundredths
Number: Decimals B		
Step 1: Make a whole with tenths	Can you make a whole with tenths?	 Recognise and write decimal equivalents of any number of tenths
Step 2: Make a whole with	Can you make a whole with hundredths?	or hundredths
hundredths		 Solve simple measure and money problems involving fractions and
Step 3: Partition decimals	Can you partition decimals?	decimals to 2 decimal places
Step 4: Flexibly partition decimals	Can you flexibly partition decimals?	
Step 5: Compare decimals	Can you compare decimals?	
	can you compare accommons:	Recognise and write decimal equivalents of any number of tenths
Step 6: Order decimals	Can you order decimals?	 Recognise and write decimal equivalents of any number of tenths or hundredths
Step 6: Order decimals		or hundredthsCompare numbers with the same number of decimal places up to 2
	Can you order decimals?	or hundredths • Compare numbers with the same number of decimal places up to 2 decimal places
Step 7: Round to the nearest		 or hundredths Compare numbers with the same number of decimal places up to 2 decimal places Recognise and write decimal equivalents of any number of tenths
	Can you order decimals?	 or hundredths Compare numbers with the same number of decimal places up to 2 decimal places Recognise and write decimal equivalents of any number of tenths or hundredths
Step 7: Round to the nearest whole number	Can you order decimals? Can you round to the nearest whole number?	 or hundredths Compare numbers with the same number of decimal places up to 2 decimal places Recognise and write decimal equivalents of any number of tenths or hundredths Round decimals with 1 decimal place to the nearest whole number
Step 7: Round to the nearest whole number Step 8: Halves and quarters as	Can you order decimals?	 or hundredths Compare numbers with the same number of decimal places up to 2 decimal places Recognise and write decimal equivalents of any number of tenths or hundredths Round decimals with 1 decimal place to the nearest whole number Recognise and write decimal equivalents of any number of tenths
Step 7: Round to the nearest whole number	Can you order decimals? Can you round to the nearest whole number?	 or hundredths Compare numbers with the same number of decimal places up to 2 decimal places Recognise and write decimal equivalents of any number of tenths or hundredths Round decimals with 1 decimal place to the nearest whole number Recognise and write decimal equivalents of any number of tenths or hundredths
Step 7: Round to the nearest whole number Step 8: Halves and quarters as	Can you order decimals? Can you round to the nearest whole number?	 or hundredths Compare numbers with the same number of decimal places up to 2 decimal places Recognise and write decimal equivalents of any number of tenths or hundredths Round decimals with 1 decimal place to the nearest whole number Recognise and write decimal equivalents of any number of tenths
Step 7: Round to the nearest whole number Step 8: Halves and quarters as	Can you order decimals? Can you round to the nearest whole number?	 or hundredths Compare numbers with the same number of decimal places up to 2 decimal places Recognise and write decimal equivalents of any number of tenths or hundredths Round decimals with 1 decimal place to the nearest whole number Recognise and write decimal equivalents of any number of tenths or hundredths

Step 1: Write money using decimals	Can you write money using decimals?	•	Estimate, compare and calculate different measures, including money in pounds and pence	
Step 2: Convert between pounds and pence	Can you convert between pounds and pence?			
Step 3: Compare amounts of money	Can you compare amounts of money?			
Step 4: Estimate with money	Can you estimate with money?			
Step 5: Calculate with money	Can you calculate with money?			
Step 6: Solve problems with money	Can you solve problems with money?			
Measurement: Time				
Step 1: Years, months, weeks and days	Can you solve problems involving years, months, weeks and days?	•	Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days	
Step 2: Hours, minutes and seconds	Can you solve problems involving hours, minutes and seconds?			
Step 3: Convert between analogue and digital times	Can you convert between analogue and digital times?	•	Read, write and convert time between analogue and digital 12- and 24-hour clocks	
Step 4: Convert to the 24-hour clock	Can you convert to the 24-hour clock?			
Step 5: Convert from the 24-hour clock	Can you convert from the 24-hour clock?			
Consolidation				
Geometry: Shape				
Step 1: Understand angles as turns	Can you understand angles as turns?	•	Recognise angles as a property of shape or a description of a turn (Y3)	
Step 2: Identify angles	Can you identify various angles?	•	Identify acute and obtuse angles and compare and order angles up	
Step 3: Compare and order angles	Can you compare and order angles?		to two right angles by size	
Step 4: Triangles	Can you compare and classify triangles?	•	Compare and classify geometric shapes, including quadrilaterals	
Step 5: Quadrilaterals	Can you compare and classify quadrilaterals?		and triangles, based on their properties and sizes	
Step 6: Polygons	Can you compare and classify polygons?			
Step 7: Lines of symmetry	Can you identify lines of symmetry?	•	Identify lines of symmetry in 2-D shapes presented in different orientations	
Step 8: Complete a symmetric	Can you complete symmetric figures?	•	Complete a simple symmetric figure with respect to a specific line	
figure			of symmetry	
Statistics				

Step 1: Interpret charts	Can you interpret charts?	•	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
Step 2: Comparison, sum and difference	Can you solve comparison, sum and difference problems using information presented in charts, tables of graphs?	•	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and line graphs
Step 3: Interpret line graphs	Can you interpret line graphs?	•	Solve comparison, sum and difference problems using information
Step 4: Draw line graphs	Can you draw line graphs?		presented in bar charts, pictograms, tables and other graphs
Geometry: Position and Dire	ction		
Step 1: Describe position using coordinates	Can you describe position using coordinates?	•	Describe positions on a 2-D grid as coordinates in the first quadrant
Step 2: Plot coordinates	Can you plot coordinates?	•	Describe positions on a 2-D grid as coordinates in the first quadrant Plot specified points and draw sides to complete a given polygon
Step 3: Draw 2-D shapes on a grid	Can you draw 2-D shapes on a grid?	•	Plot specified points and draw sides to complete a given polygon
Step 4: Translate on a grid	Step 4: Translate on a grid Can you translate on a grid?		Describe movements between positions as translations of a given
Step 5: Describe translation on a grid	Can you describe translations on a grid?		unit to the left/right and up/down