Year 3 teaching overview

Autumn	1	2	3	4	5	6	7	8	9	10	11	12
Times tables		ultiples of 3 up all multiples of	to 12x3 fluently. f 3 up to 12x3.				Recall multiples of 3 up to 12x3 in any order, including missing number problems and related division facts fluently.					
							Count in multiples of 4 to 12x4 with growing fluency. Introduce relating x4 to counting in multiples of 8.					
White Rose	Number Place Value Step 1 Represent numbers to 100 Step 2 Partition numbers to 100 Step 3 Number line to 100 Step 4 Hundreds Step 5 Represent numbers to 1,000 Step 6 Partition numbers to 1,000 Step 7 Flexible partitioning of numbers to 1,000 Step 8 Hundreds, tens and ones Step 9 Find 1, 10 or 100 more or less Step 10 Number line to 1,000 Step 11 Estimate on a number line to 1,000 Step 12 Compare numbers to 1,000 Step 13 Order numbers to 1,000 Step 14 Count in 50s			Number Addition and Subtraction Step 1 Apply number bonds within 10 Step 2 Add and subtract 1s Step 3 Add and subtract 10s Step 4 Add and subtract 100s Step 5 Spot the pattern Step 6 Add 1s across a 10 Step 7 Add 10s across a 100 Step 8 Subtract 1s across a 100 Step 9 Subtract 10s across a 100 Step 10 Make connections Step 11 Add two numbers (no exchange) Step 12 Subtract two numbers (no exchange) Step 13 Add two numbers (across a 10) Step 14 Add two numbers (across a 10) Step 15 Subtract two numbers (across a 10) Step 16 Subtract two numbers (across a 100) Step 17 Add 2 digit and 3-digit numbers Step 18 Subtract 2-digit number from a 3-digit number Step 19 Complements to 100 Step 20 Estimate answers Step 21 Inverse operations				Number Multiplication and Division Step 1 Multiplication – equal groups Step 2 Use arrays Step 3 Multiples of 2 Step 4 Multiples of 5 and 10 Step 5 Sharing and grouping Step 6 Multiply by 3 Step 7 Divide by 3 Step 8 The 3 times-table Step 9 Multiply by 4 Step 10 Divide by 4 Step 11 The 4 times-table Step 12 Multiply by 8 Step 13 Divide by 8 Step 14 The 8 times-table Step 15 The 2, 4 and 8 times-tables				
National Curriculum links	Identify, represent and estimate numbers using different representations. Find 10 or 100 more or less than a given number. Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). Compare and order numbers up to 1000. Read and write numbers up to 1000 in numerals and in words. Solve number problems and practical problems involving these ideas. Count from 0 in multiples of 4, 8, 50 and 100.			Step 22 Make decisions Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens, a three digit number and hundreds. Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Estimate the answer to a calculation and use inverse operations to check answers. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.			Count from 0 in multiples of 4, 8, 50 and 100. Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objectives.					
Spring	1	2	3	4	5	6	7	8	9	10	11	12

Times tables	Recall multiples of 3 up to 12x3 in any order, and related division facts fluently.	including missing number problems	Recall multiples of 4 up to 12x4 in any order, including missing number problems and related division facts fluently.				
	Count in multiples of 4 to 12x4 fluently.		Count in multiples of 8 to 12x8 fluently.				
	Count in multiples of 8 to 12x8 with growing	fluency.					
White Rose	Number Multiplication and Division Step 1 Multiples of 10 Step 2 Related calculations Step 3 Reasoning about multiplication Step 4 Multiply a 2-digit number by a 1- digit number – no exchange Step 5 Multiply a 2-digit number by a 1- digit number – with exchange Step 6 Link multiplication and division Step 7 Divide a 2-digit number by a 1-digit number – no exchange Step 8 Divide a 2-digit number by a 1-digit number – flexible partitioning Step 9 Divide a 2-digit number by a 1-digit number – with remainders Step 10 Scaling Step 11 How many ways?	Measurement Length and Perimeter Step 1 Measure in metres and centimetres Step 2 Measure in millimetres Step 3 Measure in centimetres and millimetres Step 4 Metres, centimetres and millimetres Step 5 Equivalent lengths (metres and centimetres) Step 6 Equivalent lengths (centimetres and millimetres) Step 7 Compare lengths Step 8 Add lengths Step 9 Subtract length Step 10 What is perimeter? Step 11 Measure perimeter	Number Fractions A Step 1 Understand the denominators of unit fractions Step 2 Compare and order unit fractions Step 3 Understand the numerators of non-unit fractions Step 4 Understand the whole Step 5 Compare and order non-unit fractions Step 6 Fractions and scales Step 7 Fractions on a number line Step 8 Count in fractions on a number line Step 9 Equivalent fractions on a number line Step 10 Equivalent fractions on a bar	Measurement Mass and Capacity Step 1 Use scales Step 2 Measure mass in grams Step 3 Measure mass in kilograms and grams Step 4 Equivalent masses (kilograms and grams) Step 5 Compare mass Step 6 Add and subtract mass Step 7 Measure capacity and volume in millilitres Step 8 Measure capacity and volume in litres and millilitres Step 9 Equivalent capacities and volumes (litres and millilitres) Step 10 Compare capacity and volume Step 11 Add and subtract capacity and			
National Curriculum Links	Count from 0 in multiples of 4, 8, 50 and 100. Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objectives.	Step 12 Calculate perimeter Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). Measure the perimeter of simple 2D shapes.	model Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10. Recognise and use fractions as numbers: unit fractions and nonunit fractions with small denominators. Recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators. Solve problems that involve all of the above.	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). Pupils continue to measure using the appropriate tools and units, progressing to using a wider range of measures, including comparing and using mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 5m = 500cm). The comparison of measures includes simple scaling by integers (for example, a given quantity or measure is twice as long or 5 times as high) and this connects to multiplication.			
Summer	1 2 3	4 5 6	7 8 9	10 11	12		
Times tables	Recall multiples of 4 up to 12x4 in any order, and related division facts fluently. Recall multiples of 8 up to 12x8 in any order,	J J .	Recall multiples of 8 up to 12x8 in any order, including missing number problems and related division facts fluently.				
	and related division facts with growing fluen						

White Rose	Number Fractions B	Measurement Money	Measurement Time	Geometry Shape	Statistics	
	Step 1 Add fractions	Step 1 Pounds and pence	Step 1 Roman numerals to 12	Step 1 Turns and angles	Step 1 Interpret pictograms	
	Step 2 Subtract fractions	Step 2 Convert pounds	Step 2 Tell the time to 5 minutes	Step 2 Right angles	Step 2 Draw pictograms	
	Step 3 Partition the whole	and pence	Step 3 Tell the time to the minute	Step 3 Compare angles	Step 3 Interpret bar charts	
	Step 4 Unit fractions of a	Step 3 Add money	Step 4 Read time on a digital clock	Step 4 Measure and draw	Step 4 Draw bar charts	
	set of objects	Step 4 Subtract money	Step 5 Use am and pm	accurately	Step 5 Collect and represent	<u> </u>
	Step 5 Non-unit fractions	Step 5 Find change	Step 6 Years, months and days	Step 5 Horizontal and	data	Consolidation
	of a set of objects	, ,	Step 7 Days and hours	vertical	Step 6 Two-way tables	gat
	Step 6 Reasoning with		Step 8 Hours and minutes – use start	Step 6 Parallel and	, ,	oli i
	fractions of an amount		and end times	perpendicular		suc
	,		Step 9 Hours and minutes - use	Step 7 Recognise and		ပျ
			durations	describe 2-D shapes		
			Step 10 Minutes and seconds	Step 8 Draw polygons		
			Step 11 Units of time	Step 9 Recognise and		
			Step 12 Solve problems with time	describe 3D shapes		
			· · ·	Step 10 Make 3D shapes		
National	Count up and down in	Pounds and pence.	Tell and write the time from an	Recognise angles as a	Interpret and present data	
Curriculum	tenths; recognise that	Converting pounds and	analogue clock, including using	property of shape or a	using bar charts,	
Links	tenths arise from dividing	pence.	Roman numerals from I to XII and	description of a turn.	pictograms and tables.	
	an object into 10 equal	Adding money.	12-hour and 24-hour clocks. Estimate	Identify right angles,	Solve one-step and two-step	
	parts and in dividing one-	Subtracting money.	and read time with increasing	recognise that two	questions [for example,	
	digit numbers or quantities	Giving change	accuracy to the nearest minute.	right angles make a	'How many more?' and	
	by 10. Recognise and use		Record and compare time in terms	halfturn, three make	'How many fewer?'] using	
	fractions as numbers: unit		of seconds, minutes and hours. Use	three quarters of a turn	information presented in	
	fractions and nonunit		vocabulary such as o'clock,	and four a complete	scaled bar charts and	
	fractions with small		a.m./p.m., morning, afternoon,	turn; identify whether	pictograms and tables	
	denominators.		noon and midnight.	angles are greater than	' 3	
	Recognise, find and write		Know the number of seconds in a	or less than a right		
	fractions of a discrete set of		minute and the number of days in	angle.		
	objects: unit fractions and		each month, year and leap year.	Identify horizontal and		
	nonunit fractions with		Compare durations of events [for	vertical lines and pairs		
	small denominators.		example to calculate the time taken	of perpendicular and		
	Solve problems that involve		by particular events or tasks].	parallel lines.		
	all of the above.			Draw 2-D shapes and		
				make 3-D shapes using		
				modelling materials.		
				Recognise 3-D shapes in		
				different orientations		
				and describe them.		