Year 3 Autumn Term White Rose Planning

	Week 1 - Week 3	Week 4 - Week 8		Week 9 - Week 12		Week 13 – Week 15
	Place Value	Addition & Subtraction		Multiplication & Division A		Consolidation
White Rose Small Steps	Y2 PRE-ASSESSMENT and ADDRESS GAPS 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 Y3 POST ASSESSMENT and ADDRESS GAPS	Y2 PRE-ASSESSMENT and ADDRESS GAPS Step 1 Apply number bonds within 10 Step 2 Add and subtract 10s 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 10 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 number Step 18 Subtract a 2-digit number from a 3-digit number Step 19 Complements to 100 Step 20 Estimate answers Step 21 Inverse operations Step 22 Make decisions		Y2 PRE-ASSESSMENT and ADDRESS GAPS 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 Y3 POST ASSESSMENT and ADDRESS GAPS		Y3 Autumn Term Assessment
National Curriculum	Identify, represent and estimate numbers using different representations Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) Count from zero in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number Count from zero in multiples of 4, 8, 50 and 100 Read and write numbers up to 1,000 in numerals and word Compare and order numbers up to 1,000 s	Y3 POST ASSESSMENT and ADDRESS GAPS Add and subtract numbers mentally, including: • a 3-digit number and ones • a 3-digit number and tens • a 3-digit number and hundreds Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction Estimate the answer to a calculation and use inverse operations to check answers		Show that multiplication of two numbers can be done in any order (commutative) and division on one number by another cannot (Y2) Count in steps of 2, 3 and 5 from 0, and in 10s from any number, forward and backward (Y2) Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (Y2) 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 that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods		
	Engage with mathematical activities and problems, making links and	moving between different representations (concrete, pictorial,		EXS		GDS
ning Problem Solving	abstract). Independently choose to scaffold thinking using concrete, pictorial of Independently choose to represent thinking using concrete, pictorial of Independently find an efficient way to solve a range of problems. Independently work systematically. Independently find possibilities using patterns spotted to support. Independently check and improve work (e.g., look for other possibility Pattern spot and predict what will come next in a pattern/sequence Independently investigate conjectures and provide examples and cowhen they have solved a problem, pose a similar problem for a peer Provide a convinced argument. Reflect on others' convinced explanations and use this to improve the Edit and improve their own and a peer's convinced explanation.	ies, repeats, missing answers, errors and ways to improve). (numbers, shape or spatial). unter-examples.	Represent it in a variety of ways (e.g. using concrete materials, pictures and symbols – the CPA approach). Make up his or her own examples (and non-examples) of it. See connections between it and other facts or ideas. Recognise it in new situations and contexts. Make use of it in various ways, including in new situations. Describe it in his or her own words. approach is not imm creativity and imagi Independently explications.		greater complexity (i.e. where the mediately obvious), demonstrating gination. lore and investigate mathematical	
Reasoning	Investigate 'what if?' questions. Create 'what if?' questions.					

Year 3 Spring Term White Rose Planning

	Week 1 - Week 3	Week 4 - Week 5		Week 6 - Week 8	Week 9 - V	Veek 11	Week 11	
	Multiplication & Division B	Measurement		Fractions	Measure	ment	Consolidation	
		(length & perimeter)			(mass & capacity)			
	Y2 PRE-ASSESSMENT and ADDRESS GAPS	Y2 PRE-ASSESSMENT and ADDRESS GAPS	Y2 PRE-AS	SESSMENT and ADDRESS GAPS	Y2 PRE-ASSESSMENT and ADDRESS GAPS 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 volume Y3 POST ASSESSMENT and ADDRESS GAPS Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (I/mI)		V3 Spring Term	
White Rose Small Steps	Y2 PRE-ASSESMENT and ADDRESS GAPS 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? Y3 POST ASSESSMENT and ADDRESS GAPS	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 lengths Step 10 What is perimeter? Step 11 Measure perimeter Step 12 Calculate perimeter Step 12 Calculate perimeter	Step 1 Un fractions Step 2 Co Step 3 Un fractions Step 4 Un Step 5 Co Step 6 Fra Step 7 Fra Step 8 Co Step 9 Equ Step 10 Ec	derstand the denominators of unit mpare and order unit fractions derstand the numerators of non-unit derstand the whole mpare and order non-unit fractions ctions and scales ctions on a number line unt in fractions on a number line uivalent fractions as bar models ussessment and ADDRESS GAPS			Y3 Spring Term Assessment	
National Curriculum Objectives	Recall and use multiplication facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (Y2) Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-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 objects	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (I/mI) Measure the perimeter of simple 2-D shapes	set of objet fractions v Compare s with the s Measure, (m/cm/mi Recognise	, find and write fractions of a discrete exts: unit fractions and non-unit vith small denominators and order unit fractions, and fractions ame denominators compare, add and subtract: lengths m); mass (kg/g); volume/capacity (l/ml) and show, using diagrams, equivalent with small denominators				
	Engage with mathematical activities and problems, making links and r	noving between different representations (concrete	, pictorial,	EXS			GDS	
Problem Solving	Independently choose to represent thinking using concrete, pictorial of Independently find an efficient way to solve a range of problems. Independently work systematically. Independently find possibilities using patterns spotted to support. Independently check and improve work (e.g. look for other possibilities Pattern spot and predict what will come next in a pattern/sequence (in the possibilities).	ontly work systematically. In the property of			For all mathematical concepts, ideas and techniques: Represent it in a variety of ways (e.g. using concrete materials, pictures and symbols – the CPA approach). Make up his or her own examples (and non-examples) of it. See connections between it and other facts or ideas. Recognise it in new situations and contexts. Make use of it in various ways, including in new situations.		Solve problems of greater complexity (i.e. where the approach is not immediately obvious), demonstrating creativity and imagination. Independently explore and investigate mathematical contexts and structures.	
Reasoning	Provide a convinced argument. Reflect on others' convinced explanations and use this to improve their work. Edit and improve their own and a peer's convinced explanation. Investigate 'what if?' questions. Create 'what if?' questions.					Communicate results clearly and systematically explain and generalise the mathematics.		

Year 3 Summer Term White Rose Planning

	Week 1 - Week 2	Week 3 - Week 4	Week 5 - Week 7	Week 8 - Week 9	Week 10	- Week 11	Week 12 – Week 13	
	Fractions	Measurement (money)	Measurement (time)	Geometry (shape)	Stat	tistics	Consolidation	
White Rose Small Steps	Y2 PRE-ASSESSMENT and ADDRESS GAPS Step 1 Add fractions Step 2 Subtract fractions Step 3 Partition the whole Step 4 Unit fractions of a set of objects Step 5 Non-unit fractions of a set of objects Step 6 Reasoning with fractions of an amount Y3 POST ASSESSMENT and ADDRESS GAPS	Y2 PRE-ASSESSMENT and ADDRESS GAPS Step 1 Pounds and pence Step 2 Convert pounds and pence Step 3 Add money Step 4 Subtract money Step 5 Find change Y3 POST ASSESSMENT and ADDRESS GAPS	Y2 PRE-ASSESSMENT and ADDRESS GAPS Step 1 Roman numerals to 12 Step 2 Tell the time to 5 minutes Step 3 Tell the time to the minute Step 4 Read time on a digital clock Step 5 Use am and pm Step 6 Years, months and days Step 7 Days and hours Step 8 Hours and minutes – use start and end times Step 9 Hours and minutes - use durations Step 10 Minutes and seconds Step 11 Units of time Step 12 Solve problems with time Y3 POST ASSESSMENT and ADDRESS GAPS	Y2 PRE-ASSESSMENT and ADDRESS GAPS Step 1 Turns and angles Step 2 Right angles Step 3 Compare angles Step 4 Measure and draw accurately Step 5 Horizontal and vertical Step 6 Parallel and perpendicular Step 7 Recognise and describe 2-D shapes Step 8 Draw polygons Step 9 Recognise and describe 3-D shapes Step 10 Make 3-D shapes Y3 POST ASSESSMENT and ADDRESS GAPS	Step 2 Draw Step 3 Interp Step 4 Draw Step 5 Collect data Step 6 Two-v	ret pictograms pictograms ret bar charts bar charts t and represent vay tables ESSMENT and	Y3 Summer Term Assessment	
National Curriculum Objectives	Add and subtract fractions with the same denominator within one whole Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	Add and subtract amounts of money to give change, using both £ and p in practical contexts	Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight Know the number of seconds in a minute and the number of days in each month, year and leap year Compare durations of events	Recognise angles as a property of shape or a description of a turn Identify right angles, recognise that two right angles make a half turn, three make three-quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle Measure the perimeter of simple 2-D shapes Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (I/mI) Identify horizontal and vertical lines and pairs of perpendicular and parallel lines	Interpret and present data using bar charts, pictograms and tables Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables			
	Engage with mathematical activities and problems, making links and moving between different representations (concrete, pictorial, abstract).			EXS	GDS			
Problem Solving	Independently choose to scaffold thinking using concrete, pictorial or abstract representations, if required. Independently choose to represent thinking using concrete, pictorial or abstract representations, as appropriate. Independently find an efficient way to solve a range of problems. Independently work systematically. Independently find possibilities using patterns spotted to support. Independently check and improve work (e.g. look for other possibilities, repeats, missing answers, errors and ways to improve). Pattern spot and predict what will come next in a pattern/sequence (numbers, shape or spatial). Independently investigate conjectures and provide examples and counter-examples. When they have solved a problem, pose a similar problem for a peer.			For all mathematical concepts, ideas and techn Represent it in a variety of ways (e.g. using commaterials, pictures and symbols – the CPA appr. Make up his or her own examples (and non-exc See connections between it and other facts or i Recognise it in new situations and contexts. Make use of it in various ways, including in new	the approach is a demonstrating of complete in it. increte the approach is a demonstrating of it. Independently e mathematical complete in it.		s of greater complexity (i.e. where is not immediately obvious), creativity and imagination. explore and investigate contexts and structures.	
Reason	Provide a convinced argument. Reflect on others' convinced explanations and use this to improve their work. Edit and improve their own and a peer's convinced explanation. Investigate 'what if?' questions. Create 'what if?' questions.					Communicate results clearly and systematically explain and generalise the mathematics.		