Year 4 Autumn Term White Rose Planning

	Week 1 - Week 4	Week 5 - Week 7	Week 8	Week 9 - Week 11	Wee	k 12 – Week 14	Week 15
	Place Value	Addition & Subtraction	Measurement (area)	Multiplication & Division A	Multipli	cation & Division B	Consolidation
White Rose Small Steps		Addition & Subtraction Y3 PRE-ASSESSMENT and ADDRESS GAPS Step 1 Add and subtract 1s, 10s, 100s and 1,000s Step 2 Add up to two 4-digit numbers – no exchange Step 3 Add two 4-digit numbers – one exchange Step 4 Add two 4-digit numbers – more than one exchange Step 5 Subtract two 4-digit numbers – no exchange Step 6 Subtract two 4-digit numbers – one exchange Step 7 Subtract two 4-digit numbers – more than one exchange Step 9 Estimate answers Step 9 Estimate answers Step 10 Checking strategies Y4 POST ASSESSMENT and		Multiplication & Division A Y3 PRE-ASSESSMENT and ADDRESS GAPS Step 1 Multiples of 3 Step 2 Multiply and divide by 6 Step 3 6 times-table and division facts Step 4 Multiply and divide by 9 Step 5 9 times-table and division facts Step 6 The 3, 6 and 9 times-tables Step 7 Multiply and divide by 7 Step 8 7 times-table and division facts Step 9 11 times-table and division facts Step 10 12 times-table and division facts Step 10 12 times-table and division facts Step 11 Multiply by 1 and 0 Step 12 Divide a number by 1 and itself Step 13 Multiply three numbers Y4 POST ASSESSMENT and ADDRESS GAPS	Multiplic Y3 PRE-ASSESSMENT Step 1 Factor pairs Step 2 Use factor pair Step 3 Multiply by 10 Step 4 Multiply by 10 Step 6 Divide by 10 Step 6 Divide by 10 Step 7 Related facts Step 8 Informal writt Step 9 Multiply a 2-c Step 10 Multiply a 3- Step 11 Divide a 2-di Step 12 Divide a 2-di Step 13 Divide a 3-di Step 14 Corresponde Step 15 Efficient mul	cation & Division B F and ADDRESS GAPS irs 0 00 — multiplication and division ten methods for multiplication ligit number by a 1-digit number digit number by a 1-digit number (1) git number by a 1-digit number (2) git number by a 1-digit number (2) git number by a 1-digit number (2) git number by a 1-digit number	Y4 Autumn Term Assessment
National Curriculum Objectives	Read and write numbers up to 1,000 in numerals and words (Y3) Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) (Y3) Identify, represent and estimate numbers using different representations Count in multiples of 6, 7, 9, 25 and 1,000 Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens and ones) Find 1,000 more or less than a given number Order and compare numbers beyond 1,000 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 Round any number to the nearest 10, 100 or 1,000	ADDRESS GAPS Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why Estimate and use inverse operations to check answers to a calculation	Find the area of rectilinear shapes by counting squares	Recall multiplication and division facts for multiplication tables up to 12 × 12 Recognise and use factor pairs and commutativity in mental calculations Count in multiples of 6, 7, 9, 25 and 1,000 Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers	Recognise and use factor pairs and commutativity in mental calculations Recall multiplication and division facts for multiplication tables up to 12 × 12 Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 (Y5) Solve problems involving multiplying and adding, including using the 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 Multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout 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		
Solving	Engage with mathematical activities and problems, making links and moving between different representations (concrete, pictorial, abstract). 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. Make suggestions of ways to solve a range of problems.			For all mathematical concepts, ideas and to Represent it in a variety of ways (e.g. using pictures and symbols – the CPA approach).	concrete materials,	GDS Solve problems of greater complexity (i.e. where the approach is not immediately obvious), demonstrating creativity and imagination.	
Problem So	Develop and apply a systematic approach. Find and predict possibilities that match the context 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 with support, express generalisations/rules in words. Make and investigate conjectures and provide examples and counter-examples. When they have solved a problem, pose a similar problem for a peer.			Make up his or her own examples (and nor See connections between it and other fact Recognise it in new situations and context: Make use of it in various ways, including in	s or ideas. s.	Independently explore and investigate mathematical contexts and structures.	
Reasoning	Provide a clear, correct, logical justification and with support, express generalisation/rules formed in words. Reflect on others' justifications and use this to improve their work. Edit and improve their own and a peer's justification. Investigate 'what if?' questions. Create 'what if?' questions.			Describe it in his or her own words. Explain it to someone else. Communicate results clearly a generalise the mathematics.		Communicate results clearly and sysgeneralise the mathematics.	tematically explain and

Year 4 Spring Term White Rose Planning

	Week 1 - Week 2	Week 3 - Week 6		Week 7 - We	ek 9	Week 10 - Week 11
	Measurement (length & perimeter)	Fractions		Decimals		Consolidation
White Rose Small Steps	Y3 PRE-ASSESSMENT and ADDRESS GAPS Step 1 Measure in kilometres and metres Step 2 Equivalent lengths (kilometres and metres) Step 3 Perimeter on a grid Step 4 Perimeter of a rectangle Step 5 Perimeter of rectilinear shapes Step 6 Find missing lengths in rectilinear shapes Step 7 Calculate perimeter of rectilinear shapes Step 8 Perimeter of regular polygons Step 9 Perimeter of polygons Y4 POST ASSESSMENT and ADDRESS GAPS	Y3 PRE-ASSESSMENT and ADDRESS GAPS Step 1 Understand the whole Step 2 Count beyond 1 Step 3 Partition a mixed number Step 4 Number lines with mixed numbers Step 5 Compare and order mixed numbers Step 6 Understand improper fractions Step 7 Convert mixed numbers to improper fractions Step 8 Convert improper fractions to mixed numbers Step 9 Equivalent fractions on a number line Step 10 Equivalent fraction families Step 11 Add two or more fractions Step 12 Add fractions and mixed numbers Step 13 Subtract two fractions Step 14 Subtract from whole amounts Step 15 Subtract from mixed numbers Y4 POST ASSESSMENT and ADDRESS GAPS		Y3 PRE-ASSESSMENT and ADDRESS GAPS Step 1 Tenths as fractions Step 2 Tenths as decimals Step 3 Tenths on a place value chart Step 4 Tenths on a number line Step 5 Divide a 1-digit number by 10 Step 6 Divide a 2-digit number by 10 Step 7 Hundredths as fractions Step 8 Hundredths as decimals Step 9 Hundredths on a place value chart Step 10 Divide a 1- or 2-digit number by 100 Y4 POST ASSESSMENT and ADDRESS GAPS		Y4 Spring Term Assessment
National Curriculum Objectives	Convert between different units of measure [for example, kilometre to metre; hour to minute] Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	ions and non-unit ommon equivalent nator	Count up and down in tenths; recognise dividing an object into 10 equal parts an numbers or quantities by 10 (Y3) Recognise and write decimal equivalents hundredths Compare numbers with the same number decimal places Find the effect of dividing a 1- or 2-digit identifying the value of the digits in the abundredths Recognise and show, using diagrams, far equivalent fractions	d in dividing 1-digit s of any number of tenths or er of decimal places up to 2 number by 10 and 100, answer as ones, tenths and		
	Engage with mathematical activities and problems, making links and mov	ring between different representations (concrete,	EXS		GDS	
Problem Solving	pictorial, abstract). Independently choose to scaffold thinking using concrete, pictorial or abstract independently choose to represent thinking using concrete, pictorial or a Make suggestions of ways to solve a range of problems. Develop and apply a systematic approach. Find and predict possibilities that match the context using patterns spott Independently check and improve work (e.g. look for other possibilities, i improve). Pattern spot and with support, express generalisations/rules in words. Make and investigate conjectures and provide examples and counter-examples and counter-examples and provide appoblem for a peer.	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 clear, correct, logical justification and with support, express ger Reflect on others' justifications and use this to improve their work. Edit and improve their own and a peer's justification. Investigate 'what if?' questions. Create 'what if?' questions.			Communicate results clearly generalise the mathematics	and systematically explain and	

Year 4 Summer Term White Rose Planning

	Week 1 - Week 2	Week 3 - Week 4	Week 5 - Week 6	Wee	Veek 7 - Week 8 Week 9		We	eek 10 - Week 11	Week 12 - Week 13	
	Decimals	Measurement (money)	Measurement (time)	Geor	netry (shape)	Statistics	(po:	Geometry sition & direction)	Consolidation	
White Rose Small Steps	Y3 PRE-ASSESSMENT and ADDRESS GAPS Step 1 Make a whole with tenths Step 2 Make a whole with hundredths Step 3 Partition decimals Step 4 Flexibly partition decimals Step 5 Compare decimals Step 6 Order decimals Step 7 Round to the nearest whole number Step 8 Halves and quarters as decimals Y4 POST ASSESSMENT and ADDRESS GAPS	Y3 PRE-ASSESSMENT and ADDRESS GAPS Step 1 Write money using decimals Step 2 Convert between pounds and pence Step 3 Compare amounts of money Step 4 Estimate with money Step 5 Calculate with money Step 6 Solve problems with money Y4 POST ASSESSMENT and ADDRESS GAPS	Y3 PRE-ASSESSMENT and ADDRESS GAPS Step 1 Years, months, weeks and days Step 2 Hours, minutes and seconds Step 3 Convert between analogue and digital times Step 4 Convert to the 24-hour clock Step 5 Convert from the 24-hour clock Y4 POST ASSESSMENT and ADDRESS GAPS	GAPS Step 1 Under Step 2 Ident Step 3 Com Step 4 Trian Step 5 Quad Step 6 Poly Step 7 Lines Step 8 Com	pare and order angles gles Irilaterals Jons of symmetry olete a symmetric figure SESSMENT and	Y3 PRE-ASSESSMENT and ADDRESS GAPS Step 1 Interpret charts Step 2 Comparison, sum and difference Step 3 Interpret line graphs Step 4 Draw line graphs Y4 POST ASSESSMENT and ADDRESS GAPS	GAPS Step 1 C coordin Step 2 F Step 3 C Step 4 T Step 5 C grid Y4 POST	Describe position using ates Diot coordinates Draw 2-D shapes on a grid Translate on a grid Describe translation on a Translate on a grid Describe translation on a	Y4 Summer Term Assessment	
National Curriculum Objectives	Recognise and write decimal equivalents of any number of tenths or hundredths Solve simple measure and money problems involving fractions and decimals to 2 decimal places Compare numbers with the same number of decimal places up to 2 decimal places Round decimals with 1 decimal place to the nearest whole number Recognise and write decimal equivalents to 1/4, 1/2 and 3/4	Estimate, compare and calculate different measures, including money in pounds and pence	Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days Read, write and convert time between analogue and digital 12- and 24-hour clocks	Recognise angles as a property of shape or a description of a turn (Y3) Identify acute and obtuse angles and compare and order angles up to two right angles by size Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Identify lines of symmetry in 2-D shapes presented in different orientations Complete a simple symmetric figure with respect to a specific line of		Interpret and present discrete and continuous 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	Describe positions on a 2-D grid as coordinates in the first quadrant Plot specified points and draw sides to complete a given polygon Describe movements between positions as translations of a given unit to the left/right and up/down			
Problem Solving	Engage with mathematical activities and problems, making links and moving between different representations (concrete, pictorial, abstract). 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. Make suggestions of ways to solve a range of problems. Develop and apply a systematic approach. Find and predict possibilities that match the context 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 with support, express generalisations/rules in words. Make and investigate conjectures and provide examples and counter-examples. When they have solved a problem, pose a similar problem for a peer.				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.		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 clear, correct, logical justification and with support, express generalisation/rules formed in words. Reflect on others' justifications and use this to improve their work. Edit and improve their own and a peer's justification. Investigate 'what if?' questions. Create 'what if?' questions.				Describe it in his or her own words. Explain it to someone else. Communicate results clearly and system and generalise the mathematics.					