

Year 2

<u>Children know how to:</u>	<u>Opportunities and ideas for journaling.</u> <u>“How do mathematicians..”</u>	<u>Resources linked to unit</u>	<u>NCETM Spine and Assessment Materials</u>
AUTUMN			
<u>Number: Place Value (3 WEEKS)</u>			<u>Year 2 Spine 1</u>
Count objects to 100 and read and write numbers in numerals and words	<p><u>White Rose Activities</u></p> <p>Represent numbers to 100</p> <p>How do mathematicians use a part whole model?</p>	<p><u>I See Reasoning</u> p10-27</p> <p>NRICH</p> <p><u>Buzzy Bee</u> <u>5 steps to 50</u> <u>Snail one hundred</u> <u>Two-digit target</u> <u>6 beads</u> <u>How would we count?</u> <u>Tug of war</u> <u>Count the crayons</u> <u>Domino sequences</u> <u>Next domino</u> <u>100 square jigsaw</u> <u>That number square</u> <u>Domino Number patterns</u> <u>I like</u> <u>Largest Even</u> <u>Round the two dice</u> <u>Light the lights</u></p>	<p>Counting to 100</p> <p>Place value</p> <p>Comparing numbers</p> <p>Number bonds</p> <p>Number patterns</p> <p>1.14: TP 4.1- 4.4</p> <p><u>Yr2 NCETM assessment materials</u> Page 9-11</p>
Represent numbers to 100			
Tens and ones with a part-whole model			
Tens and ones using addition			
Use a place value chart			
Compare objects			
Compare numbers			
Order objects and numbers			
Count in 2s, 5s and 10s			
Count in 3s			
<u>Number: Addition and Subtraction (5 WEEKS)</u>			
Fact families – addition and subtraction bonds to 20	<p><u>White Rose Activities</u></p> <p>Add a 2-digit and 1-digit number - crossing ten</p> <p>Subtract a 1-digit number from a 2-digit number - crossing ten</p>	<p><u>I See Reasoning</u> p33-68</p> <p>NRICH</p> <p><u>Sitting Round the Party</u> <u>Tables</u> <u>Two Spinners</u> <u>Half Time</u> <u>Heads and Feet</u> <u>Noah</u></p>	<p>Simple adding</p> <p>1.13: TP 1.1- 1.9, 2.1-2.9, 3.1- 3.6, 4.1- 4.9</p> <p>1.14: TP 1.1- 1.5, 2.1- 2.6, 3.1- 3.9</p> <p>1.15: TP 1.1- 1.2, 2.1-2.3</p> <p>Adding with renaming</p> <p>1.11: TP 5.1-5.7, 1.15 TP 2.4- 2.8</p>
Check calculations			
Compare number sentences			
Related facts			
Bonds to 100 (tens)			
Add and subtract 1s			
10 more and 10 less			
Add and subtract 10s			
Add a 2-digit and 1-digit number – crossing ten			

Subtract a 1-digit number from a 2-digit number – crossing ten	Mixed addition and subtraction How do mathematicians add. How do mathematicians add three 1 digit numbers.	Eggs in Baskets Birthday Cakes Cuisenaire Counting The Brown Family Strike it Out Number Round Up 4 Dom Cuisenaire Environment Unit Differences Dicey Addition Number Balance Jumping Squares Always, Sometimes or Never? KS1 The Add and Take-away Path How Many? What Was in the Box? Doing and Undoing Secret Number	Simple subtracting 1.12: TP 1.1- 1.4, 2.1-2.5, 3.1-3.5, 4.1-4.4 1.13: TP 1.1- 1.9, 2.1-2.9, 3.1- 3.6, 4.1- 4.9 1.14: TP 1.1- 1.5, 2.1- 2.6, 3.1- 3.9 1.16: TP 1.1-1.3, 2.1-2.5 Subtracting with renaming 1.11: 6.1-6.8 1.16: 2.6-2.9 Addition of three numbers 1.11: TP: 6.1-6.3, 2.1-2.5, 3.1- 3.4, 4.1- 4.10 Yr2 NCETM assessment materials Page 12-15
Add two 2-digit numbers – not crossing ten – add ones and add tens			
Add two 2-digit numbers – crossing ten – add ones and add tens			
Subtract a 2-digit number from a 2-digit number – not crossing ten			
Subtract a 2-digit number from a 2-digit number – crossing ten – subtract ones and ten			
Bonds to 100 (tens and ones)			
Add three 1-digit numbers			
Measurement: Time (1 WEEK)			
O'clock and half past	How do mathematicians tell the time?	I See Reasoning Page 115-121 NRICH Order, order Stop the clock	
Quarter past and quarter to			
Telling time to 5 minutes			
Measurement: Money (2 WEEKS)			
Count money – pence	How do mathematicians count money? How do mathematicians give the correct change?	I See Reasoning Page 107-114 NRICH Five coins Money bags The puzzling sweetshop	Yr2 NCETM assessment materials Page 23-26
Count money – pounds (notes and coins)			
Count money – notes and coins			
Select money			
Make the same amount			
Compare money			
Find the total			
Find the difference			
Find change			
Two-step problems			
SPRING			
Number: Multiplication and Division (4 WEEKS)			Year 2 Spine 2

Recognise equal groups	White Rose Activity Sharing and Grouping	I See Reasoning Page 68-82	2.2: TP 1.1-1.4, 2.1-2.4, 3.1-3.4, 4.1-4.4, 5.1- 5.4 2.3: TP 1.1- 1.6, 2.1- 2.8, 3.1-3.4 2.5: 2.1-2.9, 2.4: TP 2.1- 2.9, 3.1-3.7 2.4: TP 1.1- 1.9, 3.1-3.7 2.4: TP 4.1-4.6 2.6: 1.1-1.4, 2.1-2.12 2.6: 3.1-3.10 2.5: 3.1-3.9, 2.6: 4.1-4,12 2.5: TP 4.1-4.7 2.5: TP 1.1-1.13 Yr2 NCETM assessment materials P16-18
Make equal groups			
Add equal groups			
Multiplication sentences using the x symbol			
Multiplication sentences from pictures			
Use arrays			
2 times-table			
5 times-table			
10 times-table			
Make equal groups – sharing			
Make equal groups – grouping			
Divide by 2			
Odd & even numbers			
Divide by 5			
Divide by 10			
Measurement: Time (2 WEEKS)			
O'clock and half past	Basic fractions covered here to match TAF: <i>Identify a quarter, third, half, two quarters, three quarters of a number or shape and know that all parts must be equal parts of the whole.</i>	I See Reasoning Page 115-121	Yr2 NCETM assessment materials P23-26
Quarter past and quarter to			
Telling time to 5 minutes			
Recognise a half			
Find a half			
Recognise a quarter			
Find a quarter			
Measurement: Length and Height (1 WEEK)			
Measure length (cm)	How do mathematicians measure?	I See Reasoning Page 102-105	Yr2 NCETM assessment materials P23-26
Measure length (m)			
Compare lengths			
Order lengths			
Four operations with length			
		NRICH Little man	

		Order, order Making longer, making shorter	
Geometry: Properties of Shape (3 WEEKS)			
Recognise 2-D and 3-D shapes	Use NRICH ☺	I See Reasoning Page 124-132 NRICH 2D Shapely Lines Exploded Squares Poly Plug Rectangles Let's Investigate Triangles Seeing Squares Paper Patchwork Paper Patchwork Chain of Changes Colouring Triangles Complete the Square Inside Triangles NRICH 3D Building with solid shapes Rolling that cube Skeleton Shapes Cubes Shadow play Matching triangles Data Shapes Paper Partners Cubes cut into four pieces	Yr2 NCETM assessment materials P27-29
Count sides on 2-D shapes			
Count vertices on 2-D shapes			
Draw 2-D shapes			
Lines of symmetry			
Sort 2-D shapes			
Make patterns with 2-D shapes			
Count faces on 3-D shapes			
Count edges on 3-D shapes			
Count vertices on 3-D shapes			
Sort 3-D shapes			
Make patterns with 3-D shapes			
Addition and Subtraction (2 WEEKS)			
Revision of Autumn term unit building on any gaps identified in assessments etc.			
SUMMER			
Statistics (1 WEEKS)			
Make tally charts	How do mathematicians compare?	I See Reasoning Page 133-136 NRICH	Yr2 NCETM assessment materials P30-31
Draw pictograms (1-1)			
Interpret pictograms (1-1)			

Draw pictograms (2,5 and 10)		Sticky Data	
Interpret pictograms (2, 5 and 10)		If the World Were a Village	
Block diagrams		What Shape and Colour?	
		Carroll Diagrams	
		Ladybird Count	
		Plants	
		Sort the Street	
		Button-up	
		Beads and Bags	
		The Hair Colour Game	
		Mixed-up Socks	
		In the playground	
Measurement: Time (2 WEEKS) revisiting again.			
O'clock and half past	Basic fractions covered here to match TAF: <i>Identify a quarter, third, half, two quarters, three quarters of a number or shape and know that all parts must be equal parts of the whole.</i>	I See Reasoning Page 115-121	Yr2 NCETM assessment materials P23-26
Quarter past and quarter to			
Telling time to 5 minutes			
Hours and days			
Find durations of time			
Compare durations of time			
Measurement: Mass, Capacity and Temperature (3 WEEKS)			
Compare mass	How do mathematicians measure weight?	I See Reasoning Page 104-106	Yr2 NCETM assessment materials P23-26
Measure mass in grams			
Measure mass in kilograms			
Compare volume	How do mathematicians measure liquids?		
Millilitres			
Litres			
Temperature	How do mathematicians measure temperature?	NRICH Order, order	
Number: Addition and Subtraction (2 WEEKS)			
Consolidation of earlier unit	See above		
Number: Multiplication and Division (2 WEEKS)			
Consolidation of earlier unit	See above		