Year 2

Children know how to:	Opportunities and ideas for journaling. "How do mathematicians.."	Problem Solving and reasoning opportunities	NCETM Spine and Assessment Materials
AUTUMN			
Number: Place Value (3 WEEKS)			Year 2 Spine 1
Count objects to 100 and read and write numbers in numerals and words	White Rose Activities Represent numbers to 100 How do mathematicians use a part whole model?	NRICH Buzzy Bee 5 steps to 50 Snail one hundred Two-digit target 6 beads How would we count? Tug of war Count the crayons Domino sequences Next domino 100 square jigsaw That number square Domino Number patterns I like Largest Even Round the two dice Light the lights	Counting to 100 Place value Comparing numbers Number bonds Number patterns 1.14: TP 4.1- 4.4 Yr2 NCETM assessment materials Page 9-11
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			
Number: Addition and Subtraction (5 WEEKS)			Year 2 Spine 1
Fact families – addition and subtraction bonds to 20	White Rose Activities 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	NRICH Sitting Round the Party Tables Two Spinners Half Time Heads and Feet Noah Eggs in Baskets Birthday Cakes Cuisenaire Counting The Brown Family Strike it Out	Simple adding 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 1.15: TP 1.1- 1.2, 2.1-2.3 Adding with renaming 1.11: TP 5.1-5.7, 1.15 TP 2.4- 2.8 Simple subtracting 1.12: TP 1.1- 1.4, 2.1-2.5, 3.1-3.5, 4.1-4.4
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			

Add two 2-digit numbers – not crossing ten – add ones and add tens	How do mathematicians add? How do mathematicians add three 1 digit numbers?	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	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 – 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?	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?	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)			
Recognise equal groups			
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	Fraction units added here – change order to make sense		
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)			
Measure length (m)			
Compare lengths			
Order lengths			
Four operations with length			
Geometry: Properties of Shape (3 WEEKS)			
Recognise 2-D and 3-D shapes			
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)			

Again!			
SUMMER			
Statistics (1 WEEKS)			
Make tally charts			
Draw pictograms (1-1)			
Interpret pictograms (1-1)			
Draw pictograms (2,5 and 10)			
Interpret pictograms (2, 5 and 10)			
Block diagrams			
Measurement: Time (2 WEEKS)			
O'clock and half past			
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			
Measure mass in grams			
Measure mass in kilograms			
Compare volume			
Millilitres			
Litres			
Temperature			
Number: Addition and Subtraction (2 WEEKS)			
Consolidation of earlier unit			
Number: Multiplication and Division (2 WEEKS)			
Consolidation of earlier unit			