

Year 1

<u>Children know how to:</u>	<u>Opportunities and ideas for journaling.</u> <u>“This is how mathematicians..”</u>	<u>Resources linked to unit</u>	<u>NCETM Spine and Assessment Materials</u>
AUTUMN			<u>Year 1 Spine 1</u>
<u>Number: Place Value Within 10 (4 WEEKS)</u>			
Sort objects	<p><u>White Rose Activities:</u> Counting Comparing</p> <p>This is how mathematicians count.</p>	<p><u>I See Reasoning</u> page 4-19</p> <p><u>NRICH</u> <u>Dotty six</u> <u>Eightness of Eight</u></p>	1.1: TP 2.1-3.6
Count objects			1.3: TP 1.1- 1.4 (introduces subitising),
Represent objects			1.4: TP 2.1- 2.6
Count, read and write forwards from and number 0 to 10			Yr1 NCETM assessment materials Page 9-13
Count, read and write backwards from and number 0 to 10			
Count one more			
Count one less			
One-to-one correspondence to start to compare groups			
Compare groups using language such as equal, more/greater, less/fewer			
Introduce < . > and = symbols			
Compare numbers			
Order groups of objects			
Order numbers			
Ordinal numbers (1 st , 2 nd , 3 rd ...)			
The number line			
<u>Number: Addition and Subtraction Within 10 (4 WEEKS)</u>			<u>Year 1 Spine 1</u>
Part-whole model	<p><u>White Rose Activities:</u> Part and Wholes</p> <p>This is how mathematicians add.</p> <p>This is how mathematicians subtract.</p>	<p><u>I See Reasoning</u> page 10-64</p>	1.2: TP 1.1- 1.3, 2.1- 2.3, 3.1- 3.6, 4.1- 4.7
Addition symbol			1.3: TP 3.1- 3.5, 4.1- 4.3, 5.1- 5.3, 7.1- 7.5
Fact families- addition facts			1.4: TP: 1.1- 1.10, 4.1- 4.3, 5.1, 5.2
Find number bonds for number within 10			1.5: TP: 1.1-1.6, 2.1- 2.6, 3.1- 3.6, 4.1- 4.4
Systematic methods for number bonds within 10			
Number bonds to 10			
Compare number bonds			
Addition- adding together			
Addition- adding more			
Finding a part			
Subtraction- taking away, how many left? Crossing out			
Subtraction- taking away, how many left? Introducing the subtraction symbol			

Subtraction- finding a part, breaking apart			1.6: TP: 1.1- 1.7, 2.1- 2.9, 3.1- 3.4, 4.1- 4.6 1.7: TP: 1.1- 1.6, 2.1- 2.4, 3.1- 3.7. 4.1- 4.5, 7.1- 7.5, 8.1- 8.3, 9.1- 9.8, 10.1-10.3 Yr1 NCETM assessment materials Page 13-16
Fact families- the 8 facts			
Subtraction- counting back			
Subtraction- finding the difference			
Comparing addition and subtraction statements $a+b>c$			
Comparing addition and subtraction statements $a+b>c+d$			
<u>Number: Place Value Within 20 (2 WEEKS)</u>			<u>Year 1 Spine 1</u>
Count forwards and backwards and write numbers to 20 in numerals and words	This is how mathematicians compare numbers.	I See Reasoning page 4-9 NRICH Biscuit Decoration Writing digits Same length trains	1.10: TP: 1.1- 1.9, 3.1-3.5 Yr1 NCETM assessment materials Page 9-13
Numbers from 11 to 20			
Tens and ones			
Count one more and one less			
Compare groups of objects			
<u>Geometry: Shape (Cross curricula Art)</u>			
Recognise and name 3D shapes	Link to Paul Klee or Christmas Projects	I See Reasoning page 102-131	Yr1 NCETM assessment materials P27-29
Sort 3D shaped			
Recognise and name 2D shapes			
Sort 2D shapes			
Patterns with 3D and 2D shapes			
Compare numbers			
SPRING			
<u>Number: Addition and Subtraction Within 20 (4 WEEKS)</u>			<u>Year 1 Spine 1</u>
Add by counting on	This is how mathematicians add. This is how mathematicians subtract.	I See Reasoning Fill the gaps, p7 True or false, p10 I know...so... p31 The same... different, p31 I know...so, p32 Different ways, p32-33 Finish the picture, p33-35 The same...different, p39	1.10: TP: 2.1- 2.9, 4.1- 4.7, 5.1- 5.7 Yr1 NCETM assessment materials P13-16
Find and make number bonds			
Add by making 10			
Subtraction- not crossing 10			
Subtraction- crossing 10 (1)			
Subtraction- crossing 10 (2)			
Related facts			
Compare number sentences			

		NRICH Shut the Box	
Number: Place Value Within 50 (3 WEEKS)			Year 1 Spine 1
Numbers to 50		I See Reasoning	1.8: TP: 1.1- 1.5, 2.1- 2.8, 3.1- 3.7, 4.1- 4.7, 5.1-5.9 (focuses on multiples of 10)
Tens and ones		Spot the difference, p5 Is it 23? p6	
Represent numbers to 50		Spot the mistake, p13	1.9: TP: 1.1, 2.1-2.13, 3.1- 3.7, 4.1-4.5, 5.1- 5.4, 6.1- 6.4
One more one less		Number lines, p18	
Compare objects within 50		Number lines, p20	
Compare numbers within 50		Missing numbers, p21-24	
Order numbers within 50		Different ways, p27	Yr1 NCETM assessment materials P9-13
Count in 2s		How many ways, p27	
Count in 5s		NRICH Robot Monsters	
Measurement: Length and Height (2 WEEKS)			
Compare lengths and heights	White Rose Activities.	I See Reasoning	Yr1 NCETM assessment materials P22-26
Measure length (1)	Compare lengths	Fill the gaps, p101	
Measure length (2)	Compare Heights	Read the picture, p102	
	Measuring Lengths (non-standard)	Which answer? P103	
	Introducing the Ruler	Explain, p103	
	How do Mathematicians use rulers?		
Measurement: Weight and Volume (2 WEEKS)			
Introduce weight and mass	How do mathematicians weigh?	I See Reasoning	Yr1 NCETM assessment materials P22-26
Measure mass	How do mathematicians find the volume?	Fill the gaps, p101	
Compare mass			
Introduce capacity and volume			
Measure capacity			
Compare capacity			
SUMMER			
Number: Place Value to 100 (2 WEEKS)			
Counting to 100	How do mathematicians use 100 squares?	See Place Value within 50 above	See Place Value within 50 above
Partitioning numbers			
Comparing numbers (1)			

Comparing numbers (2)			
Ordering numbers			
One more, one less			
<u>Number: Multiplication and Division (3 WEEKS)</u>			<u>Year 1 Spine 2</u>
Count in 10s	How do mathematicians use arrays?	I See Reasoning Class count, p11-13 Read the picture, p68 Finish the picture, p69 Fill the gaps, p70 Agree or disagree, p71 NRICH Making Sticks	2.1: TP: 1.1-1.5, 2.1- 2.6, 3.1- 3.6, 4.1- 4.5, 5.1- 5.7, 6.1- 6.6 Yr1 NCETM assessment materials P17-18
Make equal groups			
Add equal groups			
Make arrays			
Make doubles			
Make equal groups- grouping			
Make equal groups- sharing			
<u>Measurement: Money (1 WEEK)</u>			
Recognising coins		I See Reasoning Which answer, p107 Read the picture, p107 Is it 7p? 16p? p108 Agree or disagree? P109 Different ways, p113-114	
Recognising notes			
Counting in coins			
<u>Measurement: Time (2 WEEKS)</u>			
Before and after		I See Reasoning Fill the gaps, p115 Which answer, p117 Spot the difference, p118 Which answer, p119 Draw the missing hand, p120	Yr1 NCETM assessment materials P22-26
Dates			
Time to the hour			
Time to the half hour			
Writing time			
<u>Number: Addition and Subtraction Within 20 Consolidation from Spring Term (2 WEEKS)</u>			<u>Year 1 Spine 1</u>
Add by counting on	Choose suitable small steps to re-teach or revise.	I See Reasoning Fill the gaps, p7 True or false, p10 I know...so... p31 The same... different, p31 I know...so, p32 Different ways, p32-33 Finish the picture, p33-35 The same...different, p39	1.10: TP: 2.1- 2.9, 4.1- 4.7, 5.1- 5.7 Yr1 NCETM assessment materials P13-16
Find and make number bonds			
Add by making 10			
Subtraction- not crossing 10			
Subtraction- crossing 10 (1)			
Subtraction- crossing 10 (2)			
Related facts			
Compare number sentences			

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