Year 3

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 3 Spine 1
Hundreds Represent numbers to 1000 100s, 10s and 1s (1) 100s, 10s and 1s (2) Number line to 1000 Find 1, 10, 100 more or less than a given number Compare objects to 1000 Compare numbers to 1000 Order numbers Count in 50s	White Rose Activities Numbers to 1,000 on a place value grid How do mathematicians order numbers? How do mathematicians find more or less?	NRICH Which scripts? Coded hundred square Number differences Magic Vs Number match Sitting round the party tables Take three numbers That number square I See Reasoning Page 6-22	1.17: TP 1.1- 1.7 (explores composition of 100) 1.17: TP 3.4-3.8 1.18: TP 5.4 1.17: TP 1.5 Yr3 NCETM assessment materials Page 9-12
Number: Multiplication and Division (1) (3 WEEKS)			Year 3 Spine 2
Multiplication- equal groups Multiply by 3 Divide by 3 The 3 times table Multiply by 4 Divide by 4 The 4 times table Multiply by 8 Divide by 8 The 8 times table	How do mathematicians multiply by…	NRICH Ordering cards Music to my ears A square of numbers Follow the numbers I See Reasoning Page 54-87	2.8: TP 1.1-1.10 (moves on to 6x and 9x table but at this stage secure 3x table) 2.7: TP 1.1-1.11, 2.1-2.8, 3.1-3.10, 4.1-4.13, 5.1-5.7 Yr3 NCETM assessment materials Page 16-18
Number: Fractions (2 WEEKS) (YEAR 2 UNIT)			Year 2 Spine 3
Make equal parts Recognise a third Find a third Unit factions	White Rose Activities Working with parts and wholes		3.0: Guidance on the teaching of fractions at KS1

Non-unit fractions Equivalence of 1/2 and 2/4 Find three quarters Count in fractions	Problem solving with fractions How do mathematicians find equivalent fractions? How do mathematicians find count in fractions?		Yr2 NCETM assessment materials Page 19-22
Number: Addition and Subtraction (5 WEEKS)			Year 3 Spine 1
Add and subtract multiples of 100 Add and subtract 3-digit and 1-digit numbers- not crossing 10 Add and subtract 3-digit and 1-digit numbers- crossing 10 Subtract a 1-digit number from a 3-digit number- crossing 10 Add and subtract 3-digit and 2-digit numbers- not crossing 100 Add 3-digit and 2-digit numbers- crossing 100 Subtract a 2-digit number from a 3-digit number- crossing 100 Add and subtract 100s Spot the pattern- making it explicit	How do mathematicians add 3 digit numbers?	NRICH Buying a balloon Super shapes Strike it out Dicey addition Half time Play to 37 Build it up Finding fifteen Domino square Got it Consecutive numbers Dice in a corner 4 Dom	1.20: TP 1.1-1.3, 2.1-2.4, 3.1-3.5, 4.1- 4.7, 5.1-5.5 1.21: TP 1.1- 1.6, 2.1-2.10 Teach this first 1.17: TP 2.1- 2.11 3.1- 3.13, 4.1-4.10 (mental calculation strategies around the number 100). 1.19: TP 1.1-1.3, 2.1-2.12, 3.1-3.11, 4.1-4.4 (mental strategies up to 999) 1.18: TP 5.1- 5.15 (mental addition within 1,000) Yr3 NCETM assessment materials Page 13-15
SPRING			
Number: Addition and Subtraction (2 WEEKS)			
Add and subtract a 2-digit and 3-digit numbers- not crossing 10 or 100 Add a 2-digit and 3-digit numbers- crossing 10 or 100 Subtract a 2-digit number from a 3-digit number- crossing 10 or 100 Add two 3-digit numbers- not crossing 10 or 100 Add two 3-digit numbers- crossing 10 or 100	Continued from Autumn unit		

Subtract a 3-digit number from a 3-digit number- no exchange			
Subtract a 3-digit number from a 3-digit number-exchange			
Estimate answers to calculations			
Check answers			
Number: Multiplication and Division (2) (3 WEEKS)			
Comparing statements			Yr3 NCETM assessment materials P16-18
Related calculations			
Multiply 2-digits by 1-digit (1)			
Multiply 2-digits by 1-digit (2)			
Divide 2-digits by 1-digit (1)			
Divide 2-digits by 1-digit (2)			
Divide 2-digits by 1-digit (3)			
Scaling			
How many ways?			
Measurement: Time (1 WEEK)			
Months and years			
Hours in a day			
Telling the time to 5 minutes			
Telling the time to the minute			
Statistics			
Pictograms	To be taught in Geography unit		
Bar charts			
Tables			
Measurement: Length and Perimeter (3 WEEKS)			
Measure length			
Equivalent lengths- m and cm			
Equivalent lengths- mm and cm			
Compare lengths			
Add lengths			
Subtract lengths			
Measure perimeter			
Calculate perimeter			
Number: Fractions (2 WEEKS)			
Unit and non-unit fractions			
Making the whole			
Tenths			
Count in tenths			
Tenths as decimals			

Fractions on a number line			
Fractions of a set of objects (1)			
Fractions of a set of objects (2)			
Fractions of a set of objects (3)			
SUMMER			
Number: Fractions (3 WEEKS)			
Equivalent fractions (1)			
Equivalent fractions (2)			
Equivalent fractions (3)			
Compare fractions			
Order fractions			
Add fractions			
Subtract fractions			
Measurement: Time (2 WEEKS)			
Months and years	Consolidate from Spring term.		
Hours in a day			
Telling the time to 5 minutes			
Telling the time to the minute			
Using a.m. and p.m.			
24-hour clock			
Measuring time in seconds			
Measurement: Money (1 WEEK)			
Pounds and pence	Big focus on add and subtract		
Convert pounds and pence			
Add money			
Subtract money			
Give change			
Geometry: Properties of Shape (2 WEEKS)			
Turns and angles			
Right angles in shapes			
Compare angles			
Draw accurately			
Horizontal and vertical			
Parallel and perpendicular			
Recognise and describe 2D shapes			
Recognise and describe 3D shapes			
Make 3D shapes			
Measurement: Mass and Capacity (3 WEEKS)			

Measure mass (1)			
Measure mass (2)			
Compare mass			
Add and subtract mass			
Measure capacity (1)			
Measure capacity (2)			
Compare capacity			
Add and subtract capacity			