<u>Year 4</u>				
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 (4 WEEKS)			Year 4 – Spine 1	
Roman numerals to 100	White Rose Activities	NRICH	1.22: TP 1.1-1.8, 2.1-2.9	
Round to the nearest 10		What distance?		
Round to the nearest 100	Represent numbers to 10,000	Nice or Nasty	1.22: TP 3.1- 3.8	
Count in 1000s		Dicey Operations		
1000s, 100s, 10s, and 1a	Introducing Negative	The Deca Tree	1.22: TP 4.1- 4.13	
Partitioning	<u>Numbers</u>	Four-digit Targets	V-4 NOETRA	
Number line to 10000		Ordering journeys	Yr4 NCETM assessment	
1000 more or less	How do mathematicians round numbers?	Representing numbers	materials	
Compare numbers	round numbers?	Reasoned rounding	Page 9-11	
Order numbers	How do mathematicians	I See Reasoning		
Round to the nearest 1000	represent numbers	Page 7-34		
Count in 25s	differently?	l age / o i		
Negative numbers	dinoronay .			
Number: Addition and Subtraction (3 WEEKS)			Year 4 – Spine 1	
Add and subtract 1s, 10s, 100s, and 1000s	How do mathematicians	NRICH	1.22: TP 5.1- 5.6	
Add two 4-digit numbers- no exchange	add?	<u>Fifteen Cards</u>		
Add two 4-digit numbers- one exchange	<u> </u>	Money Bags	Yr4 NCETM assessment	
Add two 4-digit numbers- more than one exchange	How do mathematicians	Amy's Dominoes	<u>materials</u>	
Subtract two 4-digit numbers – no exchange	subtract?	Sealed Solution	Page 12-14	
Subtract two 4-digit numbers – one exchange		Roll These Dice		
Subtract two 4-digit numbers – more than one exchange	How do mathematicians estimate answers?	I See Reasoning		
Efficient subtraction	estillate allswers?	Page 35-59		
Estimate answers	How do mathematicians	Faye 30-39		
Checking strategies	check answers?			
Measurement: Time (1 WEEK)			<u>Year 4 – Spine 1</u>	
Hours, minutes and seconds	How do mathematicians		1.24 TP: 5.9	
Years, months, weeks and days	measure time?			
Analogue to digital – 12 hour	┧		Yr4 NCETM assessment	
Analogue to digital – 24 hour	How do mathematicians convert time?		<u>materials</u> Page 22-24	

Number: Multiplication and Division (1) (3 WEEKS)			Year 4 – Spine 2
Multiply by 10	How do mathematicians	NRICH	2.10: TP 1.1- 1.8, 2.1-2.10,
Multiply by 100	multiply/divide by 10/100?	Multiplication Square	3.1-3.3
Divide by 10	7 '' '	<u>Jigsaw</u>	
Divide by 100	How do mathematicians	Shape Times Shape	2.11: TP 1.1- 1.9
Multiply by 1 and 0	multiply by?	Let Us Divide!	2.11: TP 2.1-2.8, 3.1- 3.2
Divide by 1 and itself		Carrying Cards	
Multiply and divide by 6		Light the Lights Again	2.11: TP 4.1-4.3
6 times table and division facts		Multiples Grid	0.40, TD.4.4.0.04.0.0.04.0.5
Multiply and divide by 9		Zios and Zepts	2.12: TP 1.1-1.8, 2.1-2.6, 3.1-3.5
9 times table and division facts		<u>Times Tables Shifts</u> Table Patterns Go Wild!	Yr4 NCETM assessment
Multiply and divide by 7		Table Patterns Go Wild!	materials
7 times table and division facts			Page 15-17
		I See Reasoning	l age 10 17
		Page 60-92	
SPRING		1 39 20 2	
Number: Multiplication and Division (2) (3 WEEKS)			Year 4 – Spine 2
11 and 12 times-table	How do mathematicians find	See above	2.13: TP 1.1-1.9, 6.1-6.7
Multiply 3 numbers	all factor pairs?		
Factor pairs			2.14: TP 1.1- 1.6, 2.1-2.15
Efficient multiplication	How do mathematicians use		2.13: TP 3.1-3.8, 5.1-5.7, 7.1-7.8
Written methods	an efficient written method for		2.14: TP 3.1- 3.4, 4.1- 4.7
Multiply 2-digits by 1-digit	multiplication?		2.15: TP 1.1- 1.7, 2.1-2.10
Multiply 3-digits by 1-digit	I lavo da madh anadhisiana		2.15: TP 3.1- 3.4, 4.1-4.11
Divide 2-digits by 1-digit (1)	How do mathematicians divide numbers?		Vr4 NCETM assessment
Divide 2-digits by 1-digit (2)	divide numbers?		Yr4 NCETM assessment materials
Divide 3-digits by 1-digit			Page 15-17
Correspondence problems			1 age 15-17
Measurement: Length and Perimeter (1 WEEK)			
Kilometres			
Perimeter on a grid	_		
Perimeter of a rectangle	<u> </u>		
Perimeter of rectilinear shapes			
Measurement: Area (1 WEEK)			
What is area?	_		
Counting squares	_		
Making shapes			

Comparing area		
Number: Fractions (4 WEEKS)		
What is a fraction?		
Equivalent fractions (1)]	
Equivalent fractions (2)		
Fractions greater than 1		
Count in fractions		
Add 2 or more fractions		
Subtract 2 fractions]	
Subtract from whole amounts		
Calculate fractions of a quantity		
Problem solving- calculate quantities		
Measurement: Money (2 WEEKS)		
Pounds and pence	Big focus on addition and	
Ordering money	subtraction	
Estimating money		
Four operations		
SUMI	MER	
Number: Multiplication and Division (1 WEEK)		
Times table and written method	Consolidation of earlier times	
	tables and training for MTC	
Number: Decimals (3 WEEKS)		
Recognise tenths and hundredths		
Tenths as decimals		
Tenths on a place value grid		
Tenths on a number line	1	
Divide 1-digit by 10		
Divide 2-digits by 10	1	
Hundredths		
Hundredths as decimals	1	
Hundredths on a place value grid	1	
Divide 1 or 2-digits by 100		
Number: Decimals (2 WEEKS)		
Make a whole		
Write decimals	1	
Compare decimals	1	
Order decimals	1	
Round decimals	1	
Halves and quarters		

Number: Addition and Subtraction (1 WEEKS)		
Consolidation of earlier methods		
Geometry: Properties of shapes (3 WEEKS)		
Identify angles		
Compare and order angles		
Triangles		
Quadrilaterals		
Lines of symmetry		
Complete a symmetric figure		
Geometry: Position and Direction (1 WEEK)		
Describe position		
Draw on a grid		
Move on a grid		
Describe a movement on a grid		