

## **Billingshurst Primary School**

Long Term Maths Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	We
	Addition and Subtraction	1	Place Value: Numbers to 10,000		<b>!</b>	I
AUTUMN 1	Addition and Subtraction         Review of column addition at RtP:         • 3AS-2 Page 109         SPINES:         1.20 Algorithms: column addition         1.21 Algorithms: column sub         Small Steps:         1         1       Pupils identify the adder         2       Pupils use their knowled         3       Pupils add a pair of 2-dig         4       Pupils add a pair of 2-dig         7       Pupils add a pair of 2-dig         9       Pupils add a pair of 2-dig         9       Pupils add a pair of 2-dig         9       Pupils add a pair of 2-dig         10       Pupils add a pair of 2-dig         11       Pupils use known facts a         12       Pupils use known facts a         13       Pupils use their knowled         14       Pupils use their knowled         15       Pupils subtract from a 3-         with exchanging from hu         15       Pupils subtract from a 3-         with exchanging from hu         15       Pupils evaluate the effici         17       Estimate and check the at 18: Solve 2 step problems, do 10:         16       Pupils evaluate the effici         17       Estimate and ch	And subtraction (2 and 3 digit focus) dition distant the sum in column addition ge of place value to correctly lay out git numbers using column addition addition ge of column addition to solve problems git numbers using column addition with olumn git numbers using column addition with olumn addition with regrouping nd strategies to accurately and efficiently mn addition ge of column addition to solve problems end and the subtrahend in column umn subtraction digit number using column subtraction ns to ones digit number using column subtraction undreds to tens (1) digit number using a column subtraction	Place Value: Numbers to 10,000         RtP:       • 4NPV-1 Page 146         • 4NPV-2 Page 149         • 4NPV-3 Page 150         • 4NPV-4 Page 155         • 4NPV-3 Page 166         SPINES:         1.22 Composition and calculation: 1,         Small Steps:         1       Pupils explain how many tens,         2       Pupils use knowledge of 1,000         3       Pupils use knowledge of 1,000         3       Pupils use different strategies 1         5       Pupils use different strategies 1         6       Pupils use knowledge of calcul         7       Pupils use knowledge of calcul         7       Pupils compose and decompose         8       Pupils compose and order four         10       Pupils compare and order four         10       Pupils collate efficiently by u         11       Pupils round a four-digit numb         13       Pupils round a four-digit numb         14       Pupils round a four-digit numb         15       Pupils add up to 3 four-digit numb         16       Pupils use strategies to make s         17       Pupils use strategies to make s         18       Pupils explain how many '100s         19	2000 and four-digit numbers. hundreds and ones 1,000 is composed of to explain common measure conversions to solve problems to add multiples of 100 to subtract multiples of 100 lation and common measure conversions to solve p se four-digit numbers in different ways solving calculations more efficient r-digit numbers using knowledge of place value, addition and subtrats seer to the nearest thousand per to the nearest thousand ten to the nearest thousand, hundred and ten umbers using a column addition bers using a column subtraction solving calculations more efficient s' and '200s', 1,000 is composed of s' and '250s', 1,000 is composed of s' and '250s'	Prior Learning RtP: • 3NPV-1 Page 86 • 3NPV-2 Page 88 • 3NPV-3 Page 91 • 3NPV-4 Page 95 • 3NF-3 Page 103 Problems action	<b>I</b>

## Year: 4

Veek 6	Week 7

Perimeter	Multiplication
<u>RtP:</u>	3, 6, 9 times tables
• 4G-2 <u>Page 197</u>	<u>RtP:</u>
SPINES:	• 4NF-1 <u>Page 160</u>
2.16 Multiplicative contexts: area and perimeter 1	Prior Learning RtP:
Small Steps:	• 3NF-2 <u>Page 100</u>
1 A regular polygon has sides that are all the same length and interior angles that are all equal in size	SPINES: 2.8 Times Tables: 3, 6 and 9, and the relationship between them
	Small Steps:
2 Perimeter is the distance around the edge of a two-dimensional	1 Pupils represent counting in threes as the three times table
shape	2 Pupils explain the relationship between adjacent multiples of three
	3 Pupils use knowledge of the three times table to solve problems
3 Different shapes can have the same perimeter	4 Pupils represent counting in sixes as the six times table
4 Perimeter is measured in units of length and can be found by	5 Pupils explain the relationship between adjacent multiples of six
counting units	6 Pupils use knowledge of the six times table to solve problems
	7 Pupils use known facts from the five times table to solve problems involving the six times table
5 Perimeter can be calculated by adding together the side lengths of a	8 Pupils explain the relationship between multiples of three and multiples of six
2D shape	9 Pupils use knowledge of the relationships between the three and six times tables to solve problems
6 The perimeter of a rectangle can be calculated by addition and	10 Pupils represent counting in nines as the nine times table
multiplication	11 Pupils explain the relationship between adjacent multiples of nine (1)
manipheaten	12 Pupils explain the relationship between adjacent multiples of nine (2)
7 Unknown side lengths can be calculated from perimeter and known	13 Pupils use known facts from the ten times table to solve problems involving the nine times table
side lengths	14 Pupils explain the relationship between multiples of three and multiples of nine
	15 Pupils explain the relationship between pairs of three and nine times table facts that have the same product (1)
8 The perimeter of a regular polygon can be calculated by	16 Pupils explain the relationship between pairs of three and nine times table facts that have the same product (2)
multiplication	17 Pupils use the divisibility rules for divisors of three
9 The side length of a regular polygon can be calculated by division	18 Pupils use the divisibility rules for divisors of six (1)
where the perimeter is known	19 Pupils use the divisibility rules for divisors of six (2)
	NC:
NC:	Count in multiples of 6, <del>7,</del> 9, <del>25 and 1000</del> .
Describe and compare 2-D shapes, including quadrilaterals and	Divide a 2-digit number by 2, 3, 4, 5, 6, 7 and 8 using an informal method.
triangles, based on their properties and sizes .	Answer multiplication and division facts for multiplication tables up to 12x12 very quickly and know the commutative law .
Y5: Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	Mentally add or subtract numbers up to 2 digits.
Know the formula for measuring the perimeter of a square or rectangle	
in cm or m.	

AUTUMN 2

Multiplication
7 times table and patterns
<u>RtP:</u>
<ul> <li>4NF-1 Page 160</li> </ul>
Prior Learning RtP:
<ul> <li>3NF-2 Page 100</li> </ul>
SPINES:
2.9 Times Tables: 7 and patterns within / across times
<u>tables</u>
Small Steps:
1 Pupils represent counting in sevens as the 7 times table
2 Pupils explain the relationship between adjacent multiples of seven
3 Pupils use their knowledge of the 7 times table to solve problems
4 Pupils identify patterns of odd and even numbers in the times tables
5 Pupils represent a square number
6 Pupils use knowledge of divisibility rules to solve problems
NC:
Count in multiples of <del>6</del> , 7, <del>9, 25 and 1000</del> .
Divide a 2-digit number by <del>2, 3, 4, 5, 6</del> , 7 and <del>8</del> using an
informal method.
Answer multiplication and division facts for multiplication
tables up to 12x12 very quickly and know the commutative
law .

Mentally add or subtract numbers up to 2 digits.

	We	ek 1	Week 2	Week 3	Week 4	Week 5	W		
	Und	lerstanding and manipulati	ng multiplicative relationships			· · · ·	· · · ·		
	RtP:	-							
		<ul> <li><u>4MD-1 Page 170</u></li> </ul>							
		<ul> <li><u>4MD-2 Page 173</u></li> </ul>							
		• <u>4MD-3 Page 178</u>							
	Duin	• <u>4NF-3 Page 166</u>							
	Prio	<ul> <li><u>Learning RtP:</u></li> <li><u>3NF-3 Page 103</u></li> </ul>							
	SPIN								
			and division, and the distributive law						
		Calculation: multiplying an							
		Ill Steps:							
	1		factor represents in a multiplication equ	ation					
	2	Pupils explain how each p	part of a multiplication and division equa	tion relates to a story					
	3	Pupils explain where zero	can be part of a multiplication or division	on expression and the impact it has					
	4		e factors in a multiplication equation in o						
	5		e factors in a multiplication equation in (						
	6		e most efficient factor to partition to sol						
	7		distributive law to solve two part additio						
	8		distributive law to calculate products be						
	9		nship between multiplying a number by						
	10		can be placed after the final digit of a si	-	v 10				
	11		can be placed after the final digit of a ty						
	12		al digit zero can be removed from a two						
	13		al digit zero can be removed from a thre						
	14		nship between multiplying a number by		Y 10				
	15		eros can be placed after the final digit of		it by 100				
U	16		eros can be placed after the final digit of		-				
SPRING	17		st two zeros can be removed from a thre		-				
					-				
L L	19	<ul> <li>Pupils explain why the last two zeros can be removed from a four-digit multiple of 100 when we divide it by 100</li> <li>Pupils use knowledge of the composition of 100 to multiply by 100 in different ways</li> </ul>							
S	20		the composition of 100 to divide by 100	-					
-	20	1 0	g a factor 10 times the size affects the p	1					
	22		g the dividend 10 times the size affects the p						
			g a factor 100 times the size affects the	•					
	23	1 1	g the dividend 100 times the size affects	•					
	24		0	s the quotient					
	25	Pupils scale known multip							
	26		ed from multiplication facts by 100						
	NC:	Solve two step problems in	acontext						
		NC. Recognise and use factor pairs and commutivity in mental calculations.							
		•	rived facts to multiply and divide mental	ly, including multiplying by 0 and 1; divid	ling by 1; multiplying three numbers	together			
			n facts for multiplication tables up to 12						
	<mark>Solv</mark>	e problems using partitioni	ng, e.g. 39 X 7 = 30 X 7 + 9 X 7 or using o	ther number facts, e.g. 10 X 6 = 2 X 6 X 5					
			e or two digit number by 10 or 100.						
	Solv	<i>i</i> e two step problems in a c	<mark>ontext.</mark>						

Week 6	Week 7

Units         Units <th< th=""><th></th><th></th><th>-</th><th></th><th></th><th></th><th></th></th<>			-					
<ul> <li>F:</li> <li>A. Lens D:</li> <li>B. Le</li></ul>				Week 4		Week 6	Week 7	
<ul> <li>Section 2: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10</li></ul>					-			
<ul> <li>PICING PROPERTING PROPERING PROPERTING PROPERTING PROPERTING PROPERTING PROPERTING PRO</li></ul>								
<ul> <li>Singlage Signage Signage</li></ul>								
Full Same       1. Additional to the procession is an other on a get         1. Additional to the procession is an other on a get       1. Additional to the procession is an other on a get         1. Additional to the procession is an other on a get       1. Additional to the procession is an other on a get         1. Additional to the procession is an other on a get       1. Additional to the procession is an other on a get         1. Additional to the procession is an other on a get       1. Additional to the procession is an other on a get         1. Additional to the procession is an other on a get       1. Additional to the procession is an other on a get         1. Additional to the procession is an other on a get       1. Additional to the procession is an other on a get         1. Additional to the procession is an other on a get       1. Additional to the procession is an other on a discretion is an				t whole relationship				
<ul> <li>Playing the deviction from one position to notwork one angeody on a prior accouncil on the position of any position of any accouncil on the position of any position of any accouncil on the position of any position of any accouncil on the position of any position of any accouncil on the position of any position of any accouncil on the position of any position of any accouncil on the position of any position of any accouncil on the position of any acc</li></ul>			Small Steps:		Prior Learning RtP:			
<ul> <li>Point more objects including subjects or a galaxy subject of a galaxy sub</li></ul>				-				
<ul> <li>Sections: and can be depicted on an assessment of the machine of equal to memory any train takes of the sections of t</li></ul>				y be defined when in relation to a				
<ul> <li>A spanic ductice transmissions of pulperior durations o</li></ul>				val er upequel parts in a whole				
<ul> <li>A public draw public way public</li></ul>								
By Jupits mark points point						Begin with brief review of identification of and generalisations around unit		
Object       Control       Contro       Contro       Contro       Contro								
<ul> <li>Build rate of a sociality term of a sociality term of a sociality of the Coljective.</li> <li>Propise divergence of the first quarterial</li> <li>Propise divergence of the first</li></ul>								
Tarket goints       Putters: visualisation, ratio       Interplaneous particular sectors         Proposition       Putters: visualisation, ratio       Interplaneous particular sectors       Interplaneous particular sectors         Proposition       Putters: visualisation, ratio       Interplaneous particular sectors       Interplaneous particular sectors         Proposition       Putters: visualisation, ratio       Interplaneous particular sectors       Interplaneous particular sectors         Proposition       Interplaneous partion <t< td=""><td></td><td></td><td></td><td>ectives.</td><td></td><td></td><td></td></t<>				ectives.				
<ul> <li>By Up Is translate polygons in the first quadrant:</li> <li>By Control translate polygons in the first quadrant.</li> <li>By Control translate polygons in the first quadrant.<td></td><td></td><td>Key themes: visualisation, ratio</td><td></td><td></td><td></td><td></td></li></ul>			Key themes: visualisation, ratio					
Bit       and a fractional part         Applications on 2. Digital is co-ordinates in the flat substrate       a mode a fractional part         Number Description and diverses on marked builds are portable.       Public explain how a quantify made up of whole numbers and a fractional part is composed         Public builds and humber on the substrate is made up of whole numbers in a difference is and watch in mover the substrate is position of number in easing fraction and parts.       Public scattered builds are quantify made up of whole numbers and a fractional part is composed.         Public scattered builds are position of number in easing fraction is parts.       Public scattered builds are quantify made up of whole numbers and a fractional part is composed.         Public scattered builds are position of number in easing fraction is parts.       Public scattered builds are quantify made up of whole numbers and a fractional part is composed.         Public compare and order mixed numbers on a number line using fraction is parts.       Public scattered builds are quantify mode numbers and a fractional part is the scattered part is the s								
Besche pastention an 2-0 grift as concelutes in the first quadrant:         In proceed-pastention quadrat:         In proceed-paste						s quantities made up of both whole numbers		
Become transformed       part is sempored         Propio sequences 2.0 shapes, including quadrifications and at whole numbers and regulation the meaning of rection parts.       Propio accurately label a range of number lines and explain the meaning of each part is sempored.         Propio accurately label a range of number lines and explain the meaning of sectors and formation of numbers on a number line using fraction sense.       Propio accurately label a range of number lines and explain the meaning of sectors and order mased numbers using fraction sense.         Propio accurately label a range of number lines and explain the meaning of sectors and order mased numbers when the whole number is to a number line using fraction sense.       Propio accurately label a range of number using fraction sense.         Propio accurately label a range of number is and explain the meaning of sectors and order mased numbers when the whole number is to a number line using fraction sense.       Propio accurate and order mased numbers using fraction sense.         Propio accurate active data data data data data data data dat								
Bet-specific points and fraw vides to complete a polygent transition, based on their properties and vides a decompose quantities made of whole numbers and fractional parts <ul> <li>Pupils accurately label a range of number lines and explain the meaning of each part</li> <li>Pupils identify numbers on marked but unbelled number lines</li> <li>Pupils identify numbers on marked but unbers unds praction syme</li> <li>Pupils identify numbers on marked numbers unds practine under syme</li> <li>Pupils identify numbers on marked numbers unds practine under syme</li> <li>Pupils compare and order mixed numbers when the whole number is the same</li> <li>Pupils compare and order mixed numbers when the whole number is the same</li> <li>Pupils compare and order mixed numbers when the whole number is the same</li> <li>Pupils compare and order mixed numbers when the whole number is the same</li> <li>Pupils compare and order mixed numbers und practine syme</li> <li>Pupils compare and order mixed numbers und information</li> <li>Pupils compare and order mixed numbers and mimor</li> <li>Pupils compare and order mixed numbers und information</li> <li>Pupils compare and order mixed numbers and mimor</li> <li>Pupils market efficient choica about the order they solve an addition problem in</li> <li>Pupils market efficient choica about the order they solve an addition problem in</li> <li>Pupils market and number fraction is a mixed number (gameters)</li> <li>Pupils empers acconvert a quantify from an improper fraction to a mixed number (gameters)</li> <li>Pupils empers acconvert a quantify from an improper fraction is proper fraction from a mixed number is converted into a mixed number (gameters)</li> <li>Pupils empers and number and explain whi</li></ul>								
Pages       Scales dut their properties and stars.         Pages       Pages       Scales dut their properties and stars.         Pages       Pages       Pages       Scales dut their properties and stars.         Pages       Pages       Pages       Scales dut their properties and stars.         Pages       Pages       Scales dut their properties and stars.         Pages       Pages       Scales dut their properties and stars.         Pages       Pages       Pages       Scales dut their properties and stars.         Pages       Pages       Scales dut their properties and stars.       Pages         Pages       Pages       Scales dut their properties and stars.       Pages         Pages       Pages       Scales dut their properties dut their properties on a number in using fraction scales.         Pages       Pages       Scales dut their properties dut their properticatin their properties dut their properties dut their pro					3 Pupils compose and decomp			
<b>PORCU PORCU PORCUPACION PORCUPACIÓN PORCUPACIÓN</b>								
Papels identify numbers on anymeta but unbabelled numbers lines         Papels compare and order mixed numbers on anymetable line using fraction series         Papels compare and order mixed numbers is the same         Papels compare and order mixed numbers is the same         Papels compare and order mixed numbers is the same         Papels compare and order mixed numbers is the same         Papels compare and order mixed numbers is the same         Papels compare and order mixed numbers is the same         Papels compare and order mixed numbers is the same         Papels compare and order mixed numbers is the same         Papels compare and order mixed numbers is the same         Papels compare and order mixed numbers is a subtraction         Papels compare and order mixed numbers and the order they solve an addition problem in         Papels compare and order mixed numbers and an improper fraction         Papels compare and order mixed number and an improper fraction to a mixed number (liquaters)         Papels compare and concert quantity from an improper fraction to a mixed number (liquaters)         Papels compare and concert quantity from an improper fraction to a mixed number (liquaters)         Papels compare and concert quantity from an improper fraction to a mixed number (liquaters)         Papels subtract an integer papels and into a mixed number (liquaters)         Papels subtract an integer papel fraction find         Papels subtract an integer papel fracti		thangles, based on their properties and sizes.				ge of number lines and explain the meaning of		
Signed       6       Pupile stimute the position of numbers on a number line using fraction sense         7       Pupils compare and order mixed numbers using fraction sense         8       Pupils compare and order mixed numbers when the whole number is the same         9       Pupils compare and order mixed numbers when the whole number and the numerator of the fractional part is the same         10       Pupils make efficient choices about the order they solve an addition problem in         11       Pupils express a quantity as a mixed number and an improper fraction or problem in         12       Pupils express a quantity as a mixed number and an improper fraction (quarters)         13       Pupils express a quantity as a mixed number and an improper fraction (quarters)         14       Pupils express and convert a quantity from an improper fraction to a mixed number (mixed number (mixed number (quarters))         14       Pupils express and convert a quantity from an improper fraction to a mixed number (mixed number fraction is converted into an improper fraction 17         15       Pupils explain how a mixed number from a mixed						arked but uplobelled number lines		
SPUED       sense         PupIS       PupIS compare and order mixed numbers using fraction sense         PupIS       PupIS compare and order mixed numbers when the whole number is the same         PupIS       PupIS         PupIS	7							
7 Pupils compare and order mixed numbers using fraction sense 8 Pupils compare and order mixed numbers when the whole number is the same 9 Pupils compare and order mixed numbers when the whole number and the numerator of the fractional part is the same 10 Pupils make efficient choices about the order they solve an addition problem in 11 Pupils make efficient choices about the order they solve an addition problem in 12 Pupils express a quantity as a mixed number and number (quarters) 13 Pupils convert a quantity from an improper fraction to a mixed number (quarters) 14 Pupils express and convert a quantity from an improper fraction to a mixed number (fifths) 15 Pupils express and convert a quantity from an improper fraction to a mixed number (quarters) 14 Pupils express and convert a quantity from an improper fraction to a mixed number (quarters) 15 Pupils express and convert a quantity from an improper fraction to a mixed number (gam unit) 16 Pupils express and convert a quantity from an improper fraction to a mixed number (gam unit) 17 Pupils add mumbers 18 Pupils subfract a proper fraction from a mixed number (converting to an improper fraction frac	ר)					of numbers of a number line asing naction		
Pupils compare and order mixed numbers when the whole number and the numerator of the fractional part is the same 10 Pupils make efficient choices about the order they solve an addition problem in 11 Pupils make efficient choices about the order they solve a subtraction problem in 12 Pupils express a quantity as a mixed number and an improper fraction (quarters) 13 Pupils converts a quantity from an improper fraction to a mixed number (quarters) 14 Pupils express and convert a quantity from an improper fraction to a mixed number (quarters) 15 Pupils explain how an improper fraction is converted into a mixed number (any unit) 15 Pupils admixed number is converted into a mixed number (any unit) 16 Pupils admixed number is converted into a mixed number (any unit) 17 Pupils admixed number (converting to an improper fraction from a mixed number (converting to an improper fraction from a mixed number (converting to an improper fraction from a mixed number and explain which strategy is most efficient 20 Pupils use knowledge of subtract on to choose correct and efficient approaches when subtracting mixed numbers 16 Pupils use knowledge of subtract in the order officient approaches when subtracting mixed numbers	ž				7 Pupils compare and order m	ixed numbers using fraction sense		
Pupils compare and order mixed numbers when the whole number and the numerator of the fractional part is the same 10 Pupils make efficient choices about the order they solve an addition problem in 11 Pupils make efficient choices about the order they solve a subtraction problem in 12 Pupils express a quantity as a mixed number and an improper fraction (quarters) 13 Pupils converts a quantity from an improper fraction to a mixed number (quarters) 14 Pupils express and convert a quantity from an improper fraction to a mixed number (quarters) 15 Pupils explain how an improper fraction is converted into a mixed number (any unit) 15 Pupils admixed number is converted into a mixed number (any unit) 16 Pupils admixed number is converted into a mixed number (any unit) 17 Pupils admixed number (converting to an improper fraction from a mixed number (converting to an improper fraction from a mixed number (converting to an improper fraction from a mixed number and explain which strategy is most efficient 20 Pupils use knowledge of subtract on to choose correct and efficient approaches when subtracting mixed numbers 16 Pupils use knowledge of subtract in the order officient approaches when subtracting mixed numbers	2				8 Pupils compare and order mi	ixed numbers when the whole number is the		
Pupils compare and order mixed numbers when the whole number and the numerator of the fractional part is the same 10 Pupils make efficient choices about the order they solve an addition problem in 11 Pupils make efficient choices about the order they solve a subtraction problem in 12 Pupils express a quantity as a mixed number and an improper fraction (quarters) 13 Pupils converts a quantity from an improper fraction to a mixed number (quarters) 14 Pupils express and convert a quantity from an improper fraction to a mixed number (quarters) 15 Pupils explain how an improper fraction is converted into a mixed number (any unit) 15 Pupils admixed number is converted into a mixed number (any unit) 16 Pupils admixed number is converted into a mixed number (any unit) 17 Pupils admixed number (converting to an improper fraction from a mixed number (converting to an improper fraction from a mixed number (converting to an improper fraction from a mixed number and explain which strategy is most efficient 20 Pupils use knowledge of subtract on to choose correct and efficient approaches when subtracting mixed numbers 16 Pupils use knowledge of subtract in the order officient approaches when subtracting mixed numbers	Ы							
10 Pupils make efficient choices about the order they solve an addition problem in 11 Pupils make efficient choices about the order they solve a subtraction problem in 22 Pupils express a quantity as a mixed number and an improper fraction (quarters) 13 Pupils express and convert a quantity from an improper fraction to a mixed number (quarters) 14 Pupils express and convert a quantity from an improper fraction to a mixed number (quarters) 15 Pupils explain how an improper fraction to a mixed number (any unit) 16 Pupils explain how a mixed number is converted into an improper fraction 17 Pupils add mixed numbers 18 Pupils explain how a mixed number (converting to an improper fraction from a mixed number (converting to an improper fraction from a mixed number and explain which strategy is most efficient 20 Pupils use knowledge of subtracting noise correct and efficient approaches when subtracting mixed numbers	S							
problem in 11 Pupils mixe efficient choices about the order they solve a subtraction problem in 12 Pupils express a quantity as a mixed number and an improper fraction (quarters) 13 Pupils convert a quantity from an improper fraction to a mixed number (quarters) 14 Pupils express and convert a quantity from an improper fraction to a mixed number (fifths) 15 Pupils explain how an improper fraction is converted into a mixed number (any unit) 16 Pupils subtract a prixed number is converted into an improper fraction 17 Pupils subtract a prixed number (converting to an improper fraction first) 19 Pupils subtract a mixed number (converting to an improper fraction first) 19 Pupils subtract a mixed number and explain which strategy is most efficient 20 Pupils use knowledge of subtraction to choose correct and efficient approaches when subtracting mixed numbers					-			
problem in 12 Pupils express a quantity as a mixed number and an improper fraction (quarters) 13 Pupils convert a quantity from an improper fraction to a mixed number (quarters) 14 Pupils express and convert a quantity from an improper fraction to a mixed number (fifths) 15 Pupils explain how an improper fraction is converted into a mixed number (any unit) 16 Pupils explain how a mixed number is converted into a mixed number 17 Pupils explain how a mixed number is converted into an improper fraction 17 Pupils explain how a mixed number (converting to an 18 Pupils subtract a proper fraction from a mixed number (converting to an improper fraction first) 19 Pupils subtract a mixed number from a mixed number and explain which strategy is most efficient 20 Pupils use knowledge of subtraction to choose correct and efficient approaches when subtracting mixed numbers								
12 Pupils express a quantity as a mixed number and an improper fraction (quarters)         13 Pupils convert a quantity from an improper fraction to a mixed number (quarters)         14 Pupils express and convert a quantity from an improper fraction to a mixed number (guarters)         15 Pupils explain how an improper fraction is converted into a mixed number (any unit)         16 Pupils explain how a mixed number is converted into an improper fraction         17 Pupils add mixed numbers         18 Pupils subtract a proper fraction from a mixed number (converting to an improper fraction first)         19 Pupils subtract a proper fraction from a mixed number and explain which strategy is most efficient         20 Pupils use knowledge of subtraction to choose correct and efficient approaches when subtracting mixed numbers					11 Pupils make efficient choices	about the order they solve a subtraction		
(quarters)13 Pupils convert a quantity from an improper fraction to a mixed number (quarters)14 Pupils express and convert a quantity from an improper fraction to a mixed number (fifths)15 Pupils explain how an improper fraction is converted into a mixed number (any unit)16 Pupils explain how a mixed number is converted into an improper fraction17 Pupils add mixed numbers18 Pupils subtract a proper fraction from a mixed number (converting to an improper fraction first)19 Pupils subtract a mixed number rom a mixed number and explain which strategy is most efficient20 Pupils use knowledge of subtraction to choose correct and efficient approaches when subtracting mixed numbers								
<ul> <li>13 Pupils convert a quantity from an improper fraction to a mixed number (quarters)</li> <li>14 Pupils express and convert a quantity from an improper fraction to a mixed number (fifths)</li> <li>15 Pupils explain how an improper fraction is converted into a mixed number (any unit)</li> <li>16 Pupils explain how a mixed number is converted into an improper fraction</li> <li>17 Pupils add mixed numbers</li> <li>18 Pupils subtract a proper fraction from a mixed number (converting to an improper fraction first)</li> <li>19 Pupils subtract a mixed number from a mixed number and explain which strategy is most efficient</li> <li>20 Pupils use knowledge of subtraction to choose correct and efficient approaches when subtracting mixed numbers</li> </ul>						a mixed number and an improper fraction		
(quarters)14 Pupils express and convert a quantity from an improper fraction to a mixed number i (fifths)15 Pupils explain how an improper fraction is converted into a mixed number (any unit)16 Pupils explain how a mixed number is converted into an improper fraction17 Pupils add mixed numbers18 Pupils subtract a proper fraction first)19 Pupils subtract a mixed number (converting to an improper fraction first)19 Pupils subtract a mixed number from a mixed number and explain which strategy is most efficient20 Pupils use knowledge of subtraction to choose correct and efficient approaches when subtracting mixed numbers						man improper fraction to a mixed number		
14 Pupils express and convert a quantity from an improper fraction to a mixed number (fifths)         15 Pupils explain how an improper fraction is converted into a mixed number (any unit)         16 Pupils explain how a mixed number is converted into an improper fraction         17 Pupils add mixed numbers         18 Pupils subtract a proper fraction from a mixed number (converting to an improper fraction first)         19 Pupils subtract a mixed number from a mixed number (converting to an improper fraction first)         19 Pupils subtract a mixed number from a mixed number and explain which strategy is most efficient         20 Pupils use knowledge of subtraction to choose correct and efficient approaches when subtracting mixed numbers								
<ul> <li>15 Pupils explain how an improper fraction is converted into a mixed number (any unit)</li> <li>16 Pupils explain how a mixed number is converted into an improper fraction</li> <li>17 Pupils add mixed numbers</li> <li>18 Pupils subtract a proper fraction from a mixed number (converting to an improper fraction first)</li> <li>19 Pupils subtract a mixed number from a mixed number and explain which strategy is most efficient</li> <li>20 Pupils use knowledge of subtraction to choose correct and efficient approaches when subtracting mixed numbers</li> </ul>					14 Pupils express and convert a	quantity from an improper fraction to a mixed		
<ul> <li>(any unit)</li> <li>16 Pupils explain how a mixed number is converted into an improper fraction</li> <li>17 Pupils add mixed numbers</li> <li>18 Pupils subtract a proper fraction from a mixed number (converting to an improper fraction first)</li> <li>19 Pupils subtract a mixed number from a mixed number and explain which strategy is most efficient</li> <li>20 Pupils use knowledge of subtraction to choose correct and efficient approaches when subtracting mixed numbers</li> </ul>						per fraction is converted into a mixed number		
17 Pupils add mixed numbers         18 Pupils subtract a proper fraction from a mixed number (converting to an improper fraction first)         19 Pupils subtract a mixed number from a mixed number and explain which strategy is most efficient         20 Pupils use knowledge of subtraction to choose correct and efficient approaches when subtracting mixed numbers								
<ul> <li>18 Pupils subtract a proper fraction from a mixed number (converting to an improper fraction first)</li> <li>19 Pupils subtract a mixed number from a mixed number and explain which strategy is most efficient</li> <li>20 Pupils use knowledge of subtraction to choose correct and efficient approaches when subtracting mixed numbers</li> <li>NC:</li> </ul>								
<ul> <li>improper fraction first)</li> <li>19 Pupils subtract a mixed number from a mixed number and explain which strategy is most efficient</li> <li>20 Pupils use knowledge of subtraction to choose correct and efficient approaches when subtracting mixed numbers</li> </ul>								
<ul> <li>19 Pupils subtract a mixed number from a mixed number and explain which strategy is most efficient</li> <li>20 Pupils use knowledge of subtraction to choose correct and efficient approaches when subtracting mixed numbers</li> <li>NC.</li> </ul>						tion from a mixed number (converting to an		
strategy is most efficient 20 Pupils use knowledge of subtraction to choose correct and efficient approaches when subtracting mixed numbers NC.						her from a mixed number and explain which		
20 Pupils use knowledge of subtraction to choose correct and efficient approaches when subtracting mixed numbers NC:					-			
NC:						traction to choose correct and efficient		
						g mixed numbers		
Add and subtract fractions with the same denominator.						the same dependences		
Recognise mixed numbers and improper fractions and convert from one form								
to the other.								

	Week 1	Week 2	Week 3	Week 4	Week 5		Week 6	Week 7
SUMMER 1	Fractions greater than 1 continued (See previous column)			Division with remainders         RtP:         •       4NF-2 Page 163         SPINES:         2.12 Division with remainders         Small Steps:         1 Pupils interpret a division story         2 Pupils interpret a division story         3 Pupils interpret a division story         4 Pupils explain how the remained         5 Pupils explain when there will         6 Pupils use knowledge of division         7 Pupils interpret the answer to         8 Pupils interpret the answer to         8 Pupils interpret the answer to         9 NC:         Recall multiplication and division         Use place value, known and derivers         by 1; multiplying three numbers	y when there is a re y when there is a re der relates to the d and will not be a re on equations and re a division calculation a division calculation facts for multiplication together.	mainder and represent i mainder and represent i ivisor in a division equat mainder in a division equat mainders to solve proble on to solve a problem (i) on to solve a problem (ii) ation tables up to 12X12, y and divide mentally, in	t with an equation (ii) t with an equation (iii) ion uation ems cluding multiplying by 0 and 1; d	
SUMMER 2	Symmetry in 2D shapes         RtP:         • 4G-3 Page 201         Small Steps:         1 Pupils complete a symmetrical pate         2 Pupils compose symmetrical shape         3 Pupils investigate lines of symmetrical shape         3 Pupils investigate lines of symmetry in 2D         5 Pupils find lines of symmetry in 2D         5 Pupils reflect polygons in a line of         6 Pupils reflect polygons that are dis         NC:         Identify lines of symmetry in 2-D shapes, i         complete a simple symmetric figure         Describe and compare 2-D shapes, i         triangles, based on their properties	es from two congruent shapes ry in 2D shapes by folding paper shapes using a mirror symmetry sected by a line of symmetry <b>apes drawn in different</b> by using a given line of symmetry. ncluding quadrilaterals and	Time No specific NCETM Spine/RtP Resour NCETM guidance: https://www.ncetr time/ Small Steps (Taken from White Rose) 1. Recap telling the time to 5 m 2. Recap Telling the time to the 3. Recap using a.m and p.m 4. 24-hour clock 5. Hours minutes and seconds 6. Years, months, weeks and d 7. Analogue to digital (12 hour 8. Analogue to digital (24 hour NC: Convert between units of measure (4 Read, write and convert time betwee Solve problems involving converting to months; weeks to days.	m.org.uk/classroom-resources/cp-y <u>:</u> ninutes e minute ays ) ; <del>m to m and</del> hour to minute). en analogue and digital 12- and 24-1	<u>rear-4-unit-11-</u>	Consolidation		rom end of blocks to establish a focus and

Cross Curricular opportunities:

NC: Read Roman numerals to 100: through daily dates and Romans history topic

## NC: Read, write and convert time between analogue and digital 12- and 24-hour clocks.

Throughout the school day refer to when events occur, such as the start and end of the school day, lunchtime etc., increasing awareness from Year 3 by referring to how many minutes past the hour. Focus on time intervals – for example, how many hours and minutes have passed since break time? Use both analogue and digital clocks.

Continue to support all pupils to know how many days there are in each month. Use opportunities such as writing the date, when you recognise birthdays in your class. Ask questions such as: "Jack's birthday is on the 29th – which months could this be in? Which months could it not be in?".

## Statistics:

Present and interpret data using different scales on bar charts or time graphs. Compare information and solve total and difference problems using information presented in bar charts, pictograms, tables and other graphs .