

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		!	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	I

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, 7, 9, 25 and 1000 .
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>
 4NF-1 Page 160
Prior Learning RtP:
 3NF-2 Page 100
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 6 , 7, 9, 25 and 1000 .
Divide a 2-digit number by 2, 3, 4, 5, 6 , 7 and 8 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:	-							
		 <u>4MD-1 Page 170</u> 							
		 <u>4MD-2 Page 173</u> 							
		• <u>4MD-3 Page 178</u>							
	Duin	• <u>4NF-3 Page 166</u>							
	Prio	 <u>Learning RtP:</u> <u>3NF-3 Page 103</u> 							
	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	 Pupils explain why the last two zeros can be removed from a four-digit multiple of 100 when we divide it by 100 Pupils use knowledge of the composition of 100 to multiply by 100 in different ways 							
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<>			-					
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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 apes drawn in different 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) ; m to m and 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 .