Parent mental maths booklet

Term	Mental Maths Strand Reception	
Autumn	Count reliably to 20.	
Spring	Order numbers 1-20	
	Say 1 more/1 less to 20	
Summer	Counting in 10's, 5's and 2's	
	Know doubles to 10	
	Add and subtract two single digit numbers	

Parent mental maths booklet

Year 1

Term	Mental Maths	
Autumn	Add and subtract 1 to a 2 digit number	
	Subtract within 10	
	Adding within 10	
	Number bonds to 10	
	Add and subtract within 5	
	Subtract within 5	
	Add within 5	
Spring	Counting in 10's, 5's and 2's	
	Know halves of even numbers to 20	
	Know doubles to 10	
	Add and subtract 10 to a 2 digit number	
	Add 3 single digit number together	
	Use language of day, week, month and year. Tell time to hour and half past.	
Summer	Number bonds to 20	
	Subtract any 1 digit number from any 2 digit number	
	Add any 1 digit number to any 2 digit number	
	Finding how many 'sets of' a smaller number make a bigger number.	
	Recognise half and quarter of an object, shape or quantity	

Parent mental maths booklet

Term	Mental Maths (year 2)	
Autumn	Add any pair of 2 digit numbers	
	Add and subtract multiples of 10 to any give 2-digit number	
	Say 10 more/less than any number to 100	
	Add two or three single digit numbers	
	Know all the pairs of numbers to 10, 12 and pairs with total of 20	
	Count on and back in ones and tens from any given 2 – digit number	
Spring	Learn 2x, 5x, and 10x table (looking at lots of)	
	Double numbers up to 20	
	Using fingers, say where a given number is in the 2s, 5s or 10s count (e.g. 8 is the fourth number when I count in twos	
	Count in 2s, 5s, and 10s	
	Subtract any pair of 2-digit numbers by counting back in tens and ones or by counting up	
Summer	Begin to double two-digit numbers less than 50 with digits of 1,2,3,4 or 5	
	Double and begin to halve numbers to 40 and multiples of 10 and 100	
	Halve/Double numbers to 20	
	Relate division to grouping (how many groups of five in fifteen)	
	Tell time to five minutes, including quarter past/to	
	Recognise half, 1/3, 2/4, $\frac{3}{4}$ of a shape, quantity or object	
	Begin to count in 3's and learn the 3x 4x table.	

Parent mental maths booklet

Term	Mental Maths Strand Year 3
Autumn	Find 1000 more/less than a given number.
	Add and subtract £1, 10p and 1p to amounts of money.
	Know the 3x and 4x 5x table. Apply and investigate. Know associated division facts.
	Know by heart, quickly derive number bonds to 100 and £1
	Add and subtract any two 2 digit numbers by partitioning or counting on
Spring	Read and compare and convert between analogue/digital 12/24 hr clocks.
	Multiply mentally one digit by two digit numbers
	Count in 6's and 8's. Know 6x and 8x , 12tables and relevant division facts
	Find change from £10, £20 and £50
	Count in multiples of 25
Summer	Begin to double and halve amounts of money (£35.60 doubles = £71.20)
	Read Roman numerals to 100.
	Count up/down in hundredths
	Count in 7s and 9's. Know 6x and 8x 11, tables and relevant division facts
	Partition 2-digit numbers to multiply by a single –digit number mentally (4 x 24 as 4 x 20 and 4 x 4)
	Use understanding of place value and number facts in mental multi and division (36 x 5 is half of 36 x 10 and 50 x 60 = 3000 or 245 ÷20 is double 245 ÷ 10)
	Divide multiples of 100 by 1-digit numbers using division facts (3200 ÷ 8= 400)
	Begin to double and halve amounts of money (£35.60 doubles = £71.20)

Parent mental maths booklet

Term	Mental Maths Strand (Year 4)	one	two	three
Autumn	Find 1000 more/less than a given number.			
	Add and subtract £1, 10p and 1p to amounts of money.			
	Know the 3x and 4x 5x table. Apply and investigate. Know associated division facts.			
	Know by heart, quickly derive number bonds to 100 and £1			
	Add and subtract any two 2 digit numbers by partitioning or counting on			
Spring	Read and compare and convert between analogue/digital 12/24 hr clocks.			
	Multiply mentally one digit by two digit numbers			
	Count in 6's and 8's. Know 6x and 8x , 12tables and relevant division facts			
	Find change from £10, £20 and £50			
	Count in multiples of 25			
Summer	Begin to double and halve amounts of money (£35.60 doubles = £71.20)			
	Read Roman numerals to 100.			
	Count up/down in hundredths			
	Count in 7s and 9's. Know 6x and 8x 11, tables and relevant division facts			
	Partition 2-digit numbers to multiply by a single -digit number mentally (4 x 24 as 4 x 20 and 4 x 4)			
	Use understanding of place value and number facts in mental multi and division (36 x 5 is half of 36 x 10 and 50 x 60 = 3000 or 245 ÷20 is double 245 ÷ 10)			
	Divide multiples of 100 by 1-digit numbers using division facts (3200 ÷ 8= 400)			
	Begin to double and halve amounts of money (£35.60 doubles = £71.20)			

Parent mental maths booklet

Term	Mental Maths Strand (ladder 5)
Autumn	Use place value and number facts to add two or more friendly numbers including money and decimals (e.g. 3+4+8+6+7, 0.6+0.4+0.7)
	Add and subtract decimal numbers which are near multiples of 1 or 10 including money (e.g £6.34-1.99 or £34.59-£19.95)
	Count in 11's and 12's and learn the 11x and 12x table
	Add to the next 10 from a decimal number (e.g 13.6 + 6.4 =20).
	Know number bonds to 1 and to the next whole number
Spring	Use doubling and halving as mental division/multi strategies (58 x 5 = half of 58 x 10)
	Use knowledge of factors and multiples in multiplication e.g (43 x 6 is double 43 x 3 and 28 x 50 is half of 28 x 100 = 1400)
	Identify all multiples and factors including finding all factor pairs.
	Know 3x,4x,6x,8x table. Apply and extend
	Know square numbers and square roots up to 144.
	Recall prime numbers upto 19
Summer	Count up/down in thousands
	Read Roman numerals to 1000.
	Use knowledge of multiples and factors, test for divisibility (246 ÷ 6 = 123 ÷ 3)
	Double and halve money by partitioning (Half of £75.40 = Half of £75 (37.50) plus half of 40p)
	Know number bonds to 1 and to the next whole number

Parent mental maths booklet

Term	Mental Maths Strand (ladder 6)
Autumn	Add two 1-place decimal numbers or two 2-place decimal numbers less than 1 (4.5 + 6.5 or 0.74 +0.33)
	Count forward and backward with positive and negative numbers through zero.
	Know all multiplication tables to 12x. Apply and extend
	Derive quickly and without difficulty, number bonds to 1000
	Use number bonds to 1 and 10 to perform mental subtraction of any pair of one-place
Spring	Use divisibility tests to aid mental calculation
	Use place value and number facts in mental multi (40,000 x 6 = 24,000)
	Identify common factors, common numbers and prime numbers and use factors in mental division (438 ÷ 6 is 219 ÷ 3)
	Identify common factors, common numbers and prime numbers and use factors in mental multiplication (e.g 326 x 6 is 652 x 3)
	Know by heart all multiplication and division facts up to 12 x 12. Apply and extend
	Add positive number to negative numbers (e.g calculate a rise in temp)
Summer	Halve and double decimal numbers with up to 2 places using partitioning e.g 36.73 doubled is double 36 plus double 0 .73)
	Know by heart all multiplication and division facts up to 12 x 12. Apply and extend
	Use rounding in mental multiplication (34 x 19 as (20 x34) -34)
	Use doubling and halving as a mental division and multiplication strategy. E.g to divide by 2,4,8,5,20 and 25 (628 ÷ 8 is halved three times) (28 x 25 is ¼ of 28 x 100 = 700)