Kirkby-in-Malhamdale Primary School Mental Maths Progression								
	Mental Maths is an integral part of the whole maths curriculum, at Kirkby Malham we teach mental maths as part of the daily lesson							
	Number Bonds (+ and - facts)	Doubling and Halving	Times Tables (× and division facts)	Counting	Partitioning / place value	Adding	Other	
Ν				Say numbers in order from 0 - 10				
R				Recognise and say numbers to 20 and order Count on and back in 1s from 0 to 20				
У1	Recall number bonds and addition and subtraction facts to 20 Given a number, identify one more and one less	Double and halve to 20 (double 10 and half of 20)	Begin to count in multiples of 2,5 and 10	Count on and back in 1s from 0 to 100 from any given number		Add and subtract within 20	Time to the hour and half past the hour and days/ weeks, months	
У2	Recall and use addition and subtraction facts to 20	Double and halve to 50 (double	Recall and use multiplication and division facts for the 2,5 and 10 multiplication	Count in multiples of 2, 3 and 5	Recognise the place value of each digit in a two digit number	Add and subtract 2 digit number by one digit by counting	Compare and order numbers from 0 - 100	

	Derive and use related facts up to 100 E.g. 3+7 = 10 so 30 add 70 - 100	25 and half of 50) linked to x2		Count on and back in 10s from any given number Compensating for 8 or 9 - adding 10 and subtracting one or two	Flexible partition 2 digit numbers in different ways e.g. 23 = 20 + 3 = 10 + 13	back and counting on Add three single digit numbers	Recognise odd and even numbers Recognise Time - quarter past and to and half past the hour
У3	Recall addition and subtraction bonds to 50 (to support money problems) Addition and subtraction of multiples of 10, 100 and 1000	Double and halve to 100	Recall and use multiplication and division facts for 3,4 and 8 multiplication tables Use commutative law and associative laws to support mental methods X and divide by 10	Count in multiples of 3, 4, 8, 50 and 100 from 0 Given a number, identify 10 or 100 more or less Compensating for 8 or 9 - adding 10 and subtracting one or two	Recognise the place value of each digit in a three digit number Partition 3 digit numbers in different ways	Add and subtract 3 digit number by ones, tens and 100s	Compare and order numbers to 1000 Understand inverse operations Recognise time
У4	Recall addition and subtraction bonds 100 / 500 (to support real life money problems) Addition and subtraction of multiples of 10, 100 and 1000	Doubles and halves to 1000	Recall and use multiplication and division facts for multiplication tables up to 12x12 X and divide one and two digit numbers by 10 and 100 Know multiplication facts (4 x 6 = 24, 40 x 6 = 240, 400 x 6	Count in multiples of 6, 7, 9, 11, 12, 25, and 1000 Given a number, identify, 10, 100 and 1000 more or less Count backwards through zero to	Recognise the place value of each digit in a four digit number	Add and subtract 4 digit number by ones, tens, hundreds and thousands	Compare and order numbers beyond 1000 Understand inverse operations Recognise time

			= 2400, 2400 / 6 = 400, 2400	include negative			
			/ 60 = 4)	numbers			
У5	Addition and	Doubles	Multiply and divide numbers	Count forwards and	Recognise the	Add and	Compare and
	subtraction facts	and	mentally by drawing on known	backwards in steps of	value of each digit	subtract	order
Y6	to 1 with two	halves	facts	10, 100, 1000 for any	in 6 digit number	numbers	numbers
	decimal places	for any		given number up to 1	up.	mentally with	beyond 1000
		given	X and divide whole numbers	million		increasingly	
	Addition and	number	and decimals by 10, 100 and		Identify the value	larger	Understand
	subtraction of		1000	Count forwards and	of each digit to 2	numbers.	inverse
	multiples of 10,			backwards with	decimal places		operations
	100 and 1000		Perform mental calculations	positive and negative			
			including with mixed	whole numbers,	Identify the value		Recognise
	Square numbers		operations and large numbers	including through zero	of each digit to 3		time on 24hr
	up to 12 , cube				decimal places		clock
	numbers 2,3, 4		Use multiplication and division				
	and 5 prime		facts for solving percentage,				
	numbers		decimal and fraction				
			calculations				