



Progression in Mental Calculations

At our schools we teach mental calculation strategies progressively.

Below are the key facts each year group should know by their final term.

Year 1 (The Nifty Nine)		
	Target	Achieved (Date)
Partition 2,3,4,5, 6 and 10... then 7,8 and 9	Adding 1 (e.g. 7+1 and 1+7)	
	Doubles of numbers to 5 (e.g. 4+4)	
	Adding 2 (e.g. 2+7 and 7+2)	
	Number bonds to 10 (e.g. 8+2 and 2+8)	
	Adding 10 to a number (e.g. 10+5 and 5+10)	
	Adding 0 to a number (e.g. 0+3 and 3+0)	
	Near doubles (e.g. 3+4 and 4+3)	
	The ones without a family! (e.g. 5+3 / 6+3)	
	Subtract within 10	

Year 2 (The Nifty Nine)	
Target	Achieved (Date)
Partition 11-20 into single digit addends	
Doubles of numbers to 10 (e.g. 7+7)	
Near doubles (e.g. 5+6 and 6+5)	
Bridging (e.g. 8+4 and 4+8)	
Compensating	
Know the multiples of 2 in and out of order	
Know the multiples of 5 in and out of order	
Know the multiples of 10 in and out of order	
Subtraction of facts within 20	



Progression in Mental Calculations

At our schools we teach mental calculation strategies progressively.

Below are the key facts each year group should know by their final term.

Year 3 (The Incredible Eight)	
Target	Achieved (Date)
Know multiplication facts for the 3 times table	
Know multiplication facts for the 6 times table	
Know multiplication facts for the 4 times table	
Know multiplication facts for the 8 times table	
Know corresponding division facts for the 3 times table	
Know corresponding division facts for the 6 times table	
Know corresponding division facts for the 4 times table	
Know corresponding division facts for the 8 times table	

Year 4 (The Incredible Eight)	
Target	Achieved (Date)
Know multiplication facts for the 7 times table	
Know multiplication facts for the 9 times table	
Know multiplication facts for the 11 times table	
Know multiplication facts for the 12 times table	
Know corresponding division facts for the 7 times table	
Know corresponding division facts for the 9 times table	
Know corresponding division facts for the 11 times table	
Know corresponding division facts for the 12 times table	



Progression in Mental Calculations

At our schools we teach mental calculation strategies progressively.

Below are the key facts each year group should know by their final term.

Year 5 (The Key Three)	
Target	Achieved (Date)
Convert between simple units of metric measurement.	
Count reliably in powers of 10 from any given number to 10,000	
Identify factors, multiples and squares of any given number.	

Year 6 (The Key Three)	
Target	Achieved (Date)
Convert between miles and kilometres.	
Convert between different units of metric measurement.	
Know equivalent fractions, decimals and percentages.	



Progression in Mental Calculations

At our schools we teach mental calculation strategies progressively.

Below are the key facts each year group should know by their final term.

Reception	
Target	Achieved (Date)
Count objects reliably	
Count reliably from 1-20	
Say which number is 1 more or 1 less than any given number	