



**Hunton & Arrathorne Community Primary School**

# **Progression in Mental Calculations**



## Progression in Mental Calculations - FS2

At our school we teach mental calculation strategies progressively.

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

<b>Reception - The Super Six</b>	
<b>Target</b>	<b>Achieved (Date)</b>
Count objects reliably to 20	
Count reliably from 1-20	
Say which number is 1 more or 1 less than any given number to 20	
Subitise 1-5	
Recall bonds for 1-5	
Recall doubles for 1-5	



## Progression in Mental Calculations - KS1

At our school we teach mental calculation strategies progressively.

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

<b>Year 1 (The Nifty Nine)</b>		
	Target	Achieved (Date)
	Adding 1 (e.g. 7+1 and 1+7)	
	Adding 2 (e.g. 2+7 and 7+2)	
	Number bonds of 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 up to double 5 (e.g. 5+4 and 4+5)	
	Adding 3 (e.g. 5+3 / 6+3)	
	Recall doubles 6-10	
	Recall bonds of 20 (e.g. 17+3 and 3+17)	

<b>Year 2 (The Nifty Nine)</b>	
Target	Achieved (Date)
Partition 11-20 into single digit addends	
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	
Instantly recall multiplication sentences for 2,5 and 10 x	
Subtraction of facts within 20	



## Progression in Mental Calculations - LKS2

At our school we teach mental calculation strategies progressively.

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

<b>Year 3 (The Incredible Eight)</b>	
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	

<b>Year 4 (The Incredible Eight)</b>	
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 - UKS2

At our school we teach mental calculation strategies progressively.

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

<b>Year 5 (The Key Three)</b>	
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.	

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