



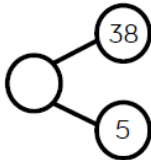
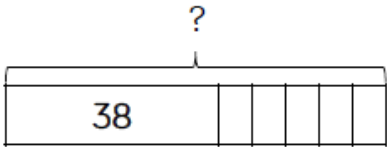

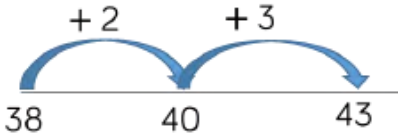
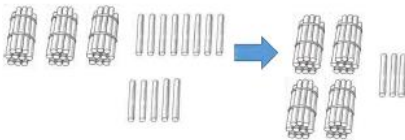
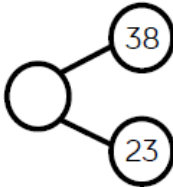
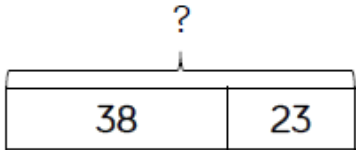
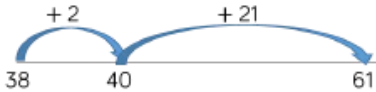

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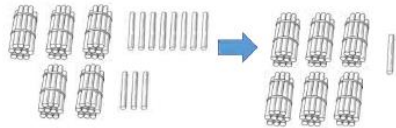
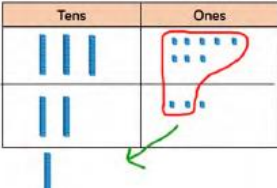
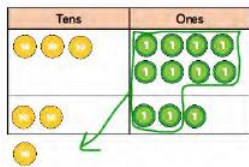
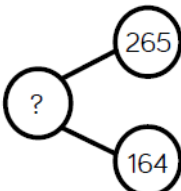
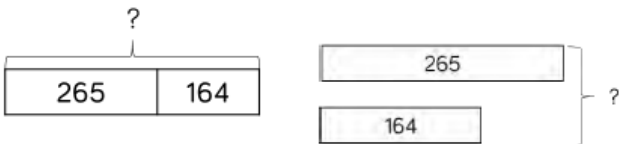
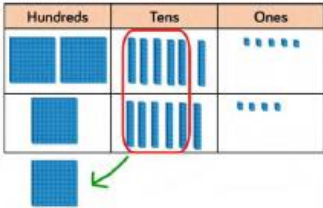

MATHS CALCULATION POLICY (Year 3)

Date:	July 2025
Next Review Due:	September 2026
Reviewed by:	Chen Lee

This policy has been largely adapted from the White Rose Maths Calculation Policy with further material added.
It is a working document and will be revised and amended as necessary.

ADDITION

Skill	Representations and Models	Vocabulary
Add 1-digit and 2-digit numbers to 100	Example: $38 + 5 = 43$	<ul style="list-style-type: none"> • Multiples • Partitioning • Ones • Tens • Hundreds • Place value • Compare • Numbers to 100/1000 • 10 or 100 more • Count in steps • Count in multiples • Estimate • Addition/add • Equals • Facts • Missing number • Number bonds • 2-digit number • 3-digit number • Commutative • Column addition
	Part-whole model 	
	Bar Model 	
Add two 2-digit numbers to 100	Number lines (labelled) 	
	Number links (blank) 	
	Straws 	
Add two 2-digit numbers to 100	Example: $38 + 23 = 61$	
	Part-whole model 	
	Bar Model 	
Add two 2-digit numbers to 100	Number lines (blank) 	
	Hundred square 	

	<p>Straws</p> 	<p>Base 10/Dienes</p>  $\begin{array}{r} 38 \\ + 23 \\ \hline 61 \\ 1 \end{array}$	<p>Place value counters</p>  $\begin{array}{r} 38 \\ + 23 \\ \hline 61 \\ 1 \end{array}$	
<p>Add numbers with up to 3 digits</p>	<p>Example: $265 + 164 = 429$</p>			
	<p>Part-whole model</p> 	<p>Bar Model</p> 		
	<p>Base 10/Dienes</p>  $\begin{array}{r} 265 \\ + 164 \\ \hline 429 \\ 1 \end{array}$	<p>Place value counters</p>  $\begin{array}{r} 265 \\ + 164 \\ \hline 429 \\ 1 \end{array}$		

SUBTRACTION

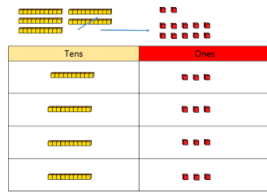
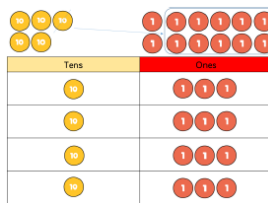
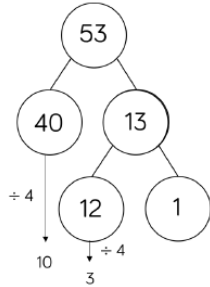
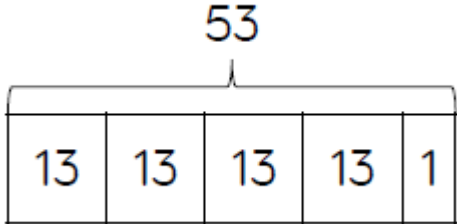

Skill	Representations and Models		Vocabulary
Subtract 1 and 2-digit numbers to 100	Example: $65 - 28 = 37$		<ul style="list-style-type: none"> Partitioning Ones Tens Hundreds Place value Compare Numbers to 100/1000 10 or 100 less Count in steps Count in multiples Estimate Subtraction/subtract Take away Equals Facts Missing number Number bonds 2-digit number 3-digit number Commutative Column subtraction Exchange
	Part-whole model 	Bar Model 	
	Straws 	Base 10/Dienes 	
Subtract numbers with up to 3 digits	Example: $435 - 273 = 162$		
	Part-whole model 	Bar Model 	
	Base 10/Dienes 	Place value counters 	

MULTIPLICATION

Skill	Representations and Models		Vocabulary
Multiply 2-digit numbers by 1-digit numbers	Example: $34 \times 5 = 170$		<ul style="list-style-type: none">• Multiples• Partitioning• Ones• Tens• Hundreds• Place value• Compare• Numbers to 100/1000• Count in steps• Count in multiples• Estimate• Multiplication• Multiply• Arrays• Row• Column• Count in...• Groups of...• Times• Repeated addition• Factors• Product• Facts• Missing number• 2-digit number• 3-digit number
	Place value counters	Base 10	
	Expanded written method	Short written method	

DIVISION

Skill	Representations and Models		Vocabulary
Divide 2-digits by 1-digit (sharing with no exchange)	Example: $48 \div 2 = 24$		<ul style="list-style-type: none"> • Multiples • Partitioning • Ones • Tens • Hundreds • Place value • Compare • Numbers to 100/1000 • Estimate • Division • Divide • Share • Exchange • Remainders • Arrays • Row • Column • Facts • Missing number • Inverse • 2-digit number • 3-digit number
	Straws	Part-whole model	
	Base 10	Place value counters	
Divide 2-digits by 1-digit (sharing with exchange)	Example: $52 \div 4 = 13$		
	Part-whole model	Bar model	

	<p>Base 10</p> 	<p>Place value counters</p> 	
Divide 2-digits by 1-digit (sharing with remainders)	<p>Example: $53 \div 4 = 13 \text{ r}1$</p>		
	<p>Part-whole model</p> 	<p>Bar model</p> 	
	<p>Base 10</p> 	<p>Place value counters</p> 