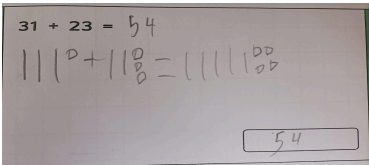
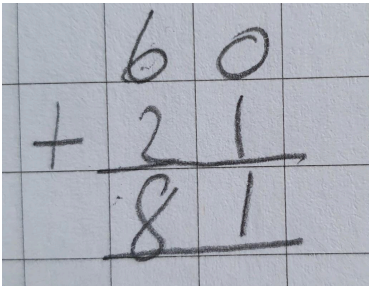
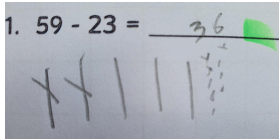
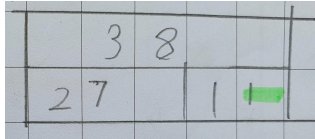
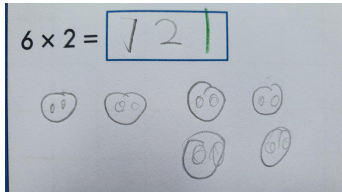
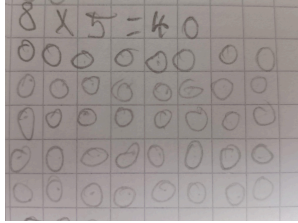
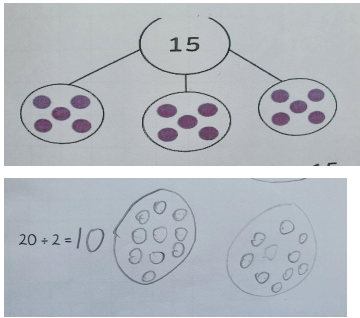


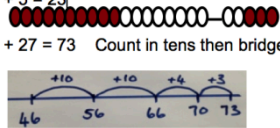

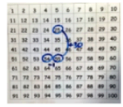
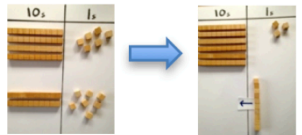


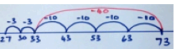

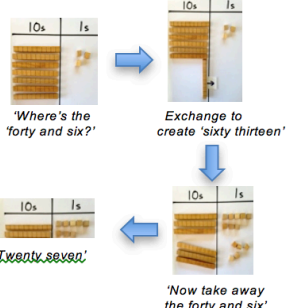

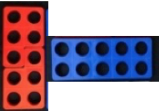





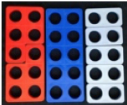




Year 2 Calculations Policy

	Addition	Subtraction	Multiplication	Division
Written Methods	<p>Add and subtract two two-digit numbers using concrete objects, pictorial representations progressing to formal written methods</p>  	<p>Add and subtract two two-digit numbers using concrete objects, pictorial representations progressing to formal written methods</p> <p>1. $59 - 23 =$ </p> <p>$38 - 27 = 11$</p>  <p> T O 3 8 - 2 7 1 1 </p>	<p>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs</p>  	<p>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs</p> 



Year 2 Calculations Policy

	Addition	Subtraction	Multiplication	Division
Developing conceptual understanding	<p>Number track / Number line – jumps of 1 then efficient jumps using number bonds $18 + 5 = 23$</p>  <p>$46 + 27 = 73$ Count in tens then bridge.</p>  <p>$25 + 29$ by $+30$ then -1 (Round and adjust)</p>  <p>Partition and recombine $46 + 27 = 60 + 13 = 73$</p>  <p>$24 + 10$ $+10$ $+10 = 54$</p> 	<p>Number track / Number line – jumps of 1 then efficient jumps using number bonds $23 - 5 = 18$</p>  <p>Using a number line, $73 - 46 = 26$</p>  <p>Difference between $73 - 58$ by counting up, $58 + __ = 73$</p>  <p>Taking away and exchanging, $73 - 46$</p> 	<p>5 frogs on each lily pad $5 \times 3 = 15$</p>  <p>$5 \times 2 = 2 \times 5$</p>  <p>Build tables on counting stick</p>  <p>Link to repeated addition</p> 	<p>$15 \div 3 = 5$ in each group (sharing)</p>  <p>Link to fractions</p>  <p>$15 \div 3 = 5$ groups of 3 (grouping)</p>  <p>$10 \div 2 = 5$</p>  <p>Use language of division linked to tables</p>  <p>How many 2s?</p> 



Year 2 Calculations Policy

	Addition	Subtraction	Multiplication	Division
With jottings ... or in your head	Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens * two two-digit numbers adding three one-digit numbers	Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens * two two-digit numbers adding three one-digit numbers	Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts
Foundations	10 more Number bonds: 20, 12, 13	10 less Number bonds, subtraction: 20, 12, 13	2 x table	Division facts (2 x table)
	Number bonds: 14, 15 Add 1 digit to 2 digit by bridging.	Number bonds, subtraction: 14, 15 Subtract 1 digit from 2 digit by bridging	10 x table	Division facts (10 x table)
	Partition second number, add tens then ones	Partition second number, count back in 10s then 1s	Doubles up to 20 and multiples of 5	Halves up to 20
	Add 10 and multiples. Number bonds: 16 and 17	Subtract 10 and multiples of 10 Number bonds, subtraction: 16, 17	5 x table	Division facts (5 x table)
	Doubles up to 20 and multiples of 5 Add near multiples of 10.	Subtract near multiples of 10	Count in 3s	Count back in 3s
	Number bonds: 18, 19 Partition and recombine	Difference between Number bonds, subtraction: 18, 19	2 x, 5 x and 10 x tables	Review division facts (2x, 5x, 10x table)
Videos to help	http://bit.ly/2lCZgR9 http://bit.ly/2lXBy4t Using Resources to Develop Fluency and Understanding	http://bit.ly/2lXm1v4	http://bit.ly/2mifEKj http://bit.ly/2miaNJg http://bit.ly/2mihJWN http://bit.ly/2lXvokZ Multiple Representations of Multiplication The Commutative Law for Multiplication	http://bit.ly/2md8rvr http://bit.ly/2mwPSTi Sharing and grouping – in pairs Sharing and grouping – whole class



Year 2 Calculations Policy Year 2 Learning Leads to...

	Addition	Subtraction	Multiplication	Division
Y3 Foundations	Add multiples of 10, 100	Subtract multiples of 10 and 100	Review 2x, 5x and 10x	Review division facts (2x, 5x, 10x table)
	Add single digit bridging through boundaries	Subtract single digit by bridging through boundaries	4x table	Division facts (4 x table)
	Partition second number to add Pairs of 100	Partition second number to subtract	Double two digit numbers	Halve two digit numbers
	Use near doubles to add	Difference between	8 x table	Division facts (8 x table)
	Add near multiples of 10 and 100 by rounding and adjusting	Subtract near multiples of 10 and 100 by rounding and adjusting	3 x table	Division facts (3 x table)
	Partition and recombine	Difference between	6 x table or review others	Division facts (6 x table) or review others