## **CHBP School Calculation Policy – Key Stage 1**



This document aims to demonstrate the methods used to teach different forms of calculation across the CHBP federation. It is structured by year group in order to clearly show progression for each operation and to aid a smooth transition from one year group to the next. The policy provides calculation guidance and expectations for each step taught, clearly emphasising the importance of using concrete resources initially to develop mathematical understanding. This use of manipulatives helps reinforce understanding and provides support when calculating mentally, mentally with jottings, using expanded methods and formal written methods.

Children should progress between the stages working towards formal written methods (where appropriate), once they have mastered each stage. However, they should not be hurried and, after the method has been taught, children should still be able to make their preferred choice of the most appropriate, efficient and accurate method for them. Previous stages may need to be revisited to consolidate understanding when introducing a new strategy. As new methods of calculations are introduced, children should have the opportunity to examine them, alongside the method they have consolidated, to make connections between the methods and establish the similarities and differences between them.



## Key Stage 1

Children develop the core ideas that underpin all calculation. They begin by connecting calculation with counting on and counting back, but they should learn that understanding wholes and parts will enable them to calculate efficiently and accurately, and with greater flexibility. They learn how to use an understanding of 10s and 1s to develop their calculation strategies, especially in addition and subtraction.

Key language: whole, part, ones, ten, tens, number bond, add, addition, plus, total, altogether, subtract, subtraction, find the difference, take away, minus, less, more, group, share, equal, equals, is equal to, groups, equal groups, times, multiply, multiplied by, divide, share, shared equally, times-table

Addition and subtraction: Children first learn to connect addition and subtraction with counting, but they soon develop two very important skills: an understanding of parts and wholes, and an understanding of unitising 10s, to develop efficient and effective calculation strategies based on known number bonds and an increasing awareness of place value. Addition and subtraction are taught in a way that is interlinked to highlight the link between the two operations.

A key idea is that children will select methods and approaches based on their number sense. For example, in Year 1, when faced with 15 - 3 and 15 - 13, they will adapt their ways of approaching the calculation appropriately. The teaching should always emphasise the importance of mathematical thinking to ensure accuracy and flexibility of approach, and the importance of using known number facts to harness their recall of bonds within 20 to support both addition and subtraction methods.

In Year 2, they will start to see calculations presented in a column format, although this is not expected to be formalised until KS2.

**Multiplication and division:** Children develop an awareness of equal groups and link this with counting in equal steps, starting with 2s, 5s and 10s. In Year 2, they learn to connect the language of equal groups with the mathematical symbols for multiplication and division.

They learn how multiplication and division can be related to repeated addition and repeated subtraction to find the answer to the calculation.

In this key stage, it is vital that children explore and experience a variety of strong images and manipulative representations of equal groups, including concrete experiences as well as abstract calculations.

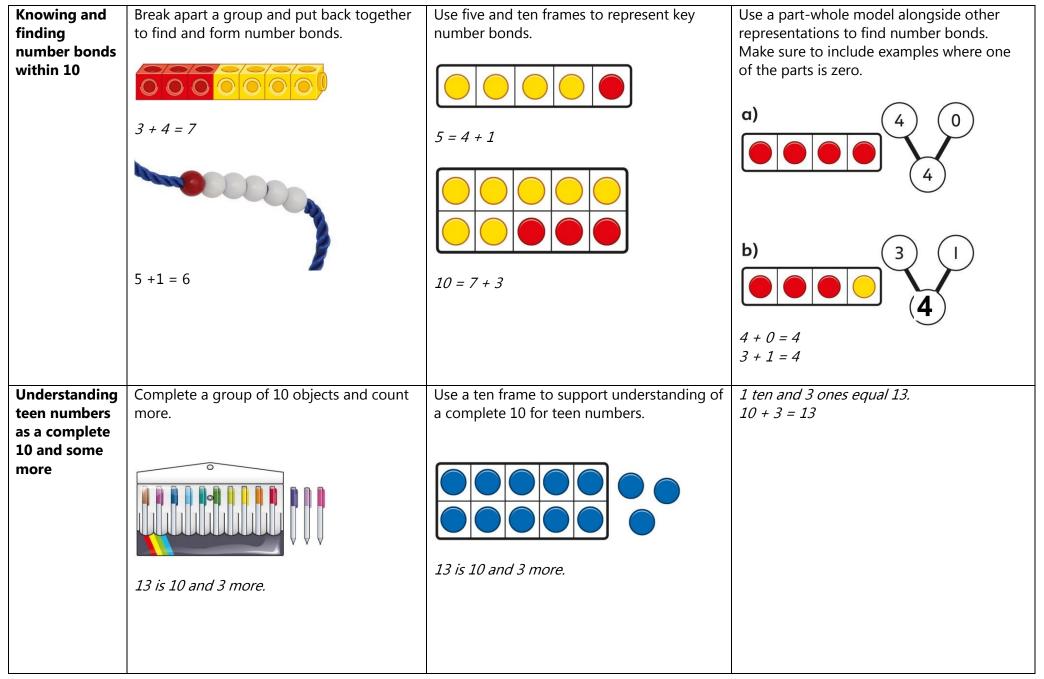
Children begin to recall some key multiplication facts, including doubles, and an understanding of the 2, 5 and 10 timestables and how they are related to counting. **Fractions:** In Year 1, children encounter halves and quarters, and link this with their understanding of sharing. They experience key spatial representations of these fractions, and learn to recognise examples and nonexamples, based on their awareness of equal parts of a whole.

In Year 2, they develop an awareness of unit fractions and experience non-unit fractions, and they learn to write them and read them in the common format of numerator and denominator.



		Year 1	
	Concrete	Pictorial	Abstract
		Year 1 Addition	
Counting and adding more	Children add one object to a group to find one more.	Children add one more cube or counter to a group to represent one more.	Use a number line to understand how to link counting on with finding one more.
		One more than 4 is 5.	One more than 6 is 7. 7 is one more than 6.
	One more than 5 is 6		Learn to link counting on with adding more than one. 0  1  2  3  4  5  6  7  8  9  10 5 + 3 = 8
Understanding part-part- whole relationship	Sort objects into parts and understand the relationship with the whole.	Children draw to represent the parts and understand the relationship with the whole.	Use a part-whole model to represent the numbers. $ \begin{array}{r} 10\\ 6\\ 4\\ 6\\ +4 = 10\\ 6+4 = 10\\ \end{array} $







Adding by counting on	Children use knowledge of counting to 20 to find a total by counting on using people or objects. 8 on the bus 9 10 11	Children use counters to support and represent their counting on strategy.	Children use number lines or number tracks to support their counting on strategy. 7 $7$ $7$ $7$ $7$
Adding the 1s	Children use bead strings to recognise how to add the 1s to find the total efficiently.	Children represent calculations using ten frames to add a teen and 1s. 2 + 3 = 5 12 + 3 = 15	Children recognise that a teen is made from a 10 and some 1s and use their knowledge of addition within 10 to work efficiently. 3 + 5 = 8 So, $13 + 5 = 18$
Bridging the 10 using number bonds	Children use a bead string to complete a 10 and understand how this relates to the addition. 7 add 3 makes 10. So, 7 add 5 is 10 and 2 more.	Children use counters to complete a ten frame and understand how they can add using knowledge of number bonds to 10.	Use a part-whole model and a number line to support the calculation. 4 1 3 9 10 II I2 I3 9 + 4 = 13



		Year 1 Subtraction	
Counting back and taking away	Children arrange objects and remove to find how many are left. Use physical objects, counters, cubes etc to show how objects can be taken away.	Children draw and cross out or use counters to represent objects from a problem.	Children count back to take away and use a number line or number track to support the method.
		$\begin{array}{c} & & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & \\ & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\$	876 0 1 2 3 4 5 6 7 8 9 10
	<i>1 less than 6 is 5. 6 subtract 1 is 5</i> .		9 - 3 = 6
Finding a missing part, given a whole and a part	Children separate a whole into parts and understand how one part can be found by subtraction. $ \begin{array}{c}   \end{array} \\   \end{array} \\   \end{array} \\   \\   \end{array} \\   \\   \end{array} \\   \\  $	Children represent a whole and a part and understand how to find the missing part by subtraction. 5 - 4 = 5	Children use a part-whole model to support the subtraction to find a missing part. 7 7 7 3 7 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 2 2 2 2 2 2 2 2 2 2



Finding the difference	Arrange two groups of objects so that the difference between the groups can be worked out.	Represent objects using sketches or counters to support finding the difference.	Children understand 'find the difference' as subtraction.
	<del>፣፣፣</del>		0 1 2 3 4 5 6 7 8 9 10
	<ul> <li>8 is 2 more than 6.</li> <li>6 is 2 less than 8.</li> </ul>	<i>5 – 4 = 1 The difference between 5 and 4 is 1.</i>	<i>10 – 4 = 6 The difference between 10 and 6 is 4.</i>
Subtraction within 20	The difference between 8 and 6 is 2.Understand when and how to subtract 1s efficiently.	Understand when and how to subtract 1s efficiently.	Understand how to use knowledge of bonds within 10 to subtract efficiently.
	Use a bead string to subtract 1s efficiently. 5-3=2 15-3=12	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5 - 3 = 2 15 - 3 = 12
Subtracting 10s and 1s	For example: 18 – 12         Subtract 12 by first subtracting the 10, then the remaining 2.         Image: Construct of the state of the stateo	For example: 18 – 12 Use ten frames to represent the efficient method of subtracting 12.	Use a part-whole model to support the calculation. 14 10 19 - 14 19 - 10 = 9 9 - 4 = 5 So, $19 - 14 = 5$



Subtraction bridging 10 using number bonds	For example: 12 – 7         Arrange objects into a 10 and some 1s, then decide on how to split the 7 into parts.         Image: Constraint of the second seco	Represent the use of bonds using ten frames. For 13 – 5, I take away 3 to make 10, then take away 2 to make 8.	Use a number line and a part-whole model to support the method. 13-5 5 6 7 8 9 10 11 12 13
		Year 1 Multiplication	
Recognising and making equal groups	Children arrange objects in equal and unequal groups and understand how to recognise whether they are equal. A B C C C C C C C C C C C C C C C C C C C	Children draw and represent equal and unequal groups.	<b>Describe equal groups using words</b> <i>Three equal groups of 4.</i> <i>Four equal groups of 3.</i>
Finding the total of equal groups by counting in 2s, 5s and 10s	There are 5 pens in each pack 510152025303540	100 squares and ten frames support counting in 2s, 5s and 10s.	Use a number line to support repeated addition through counting in 2s, 5s and 10s.

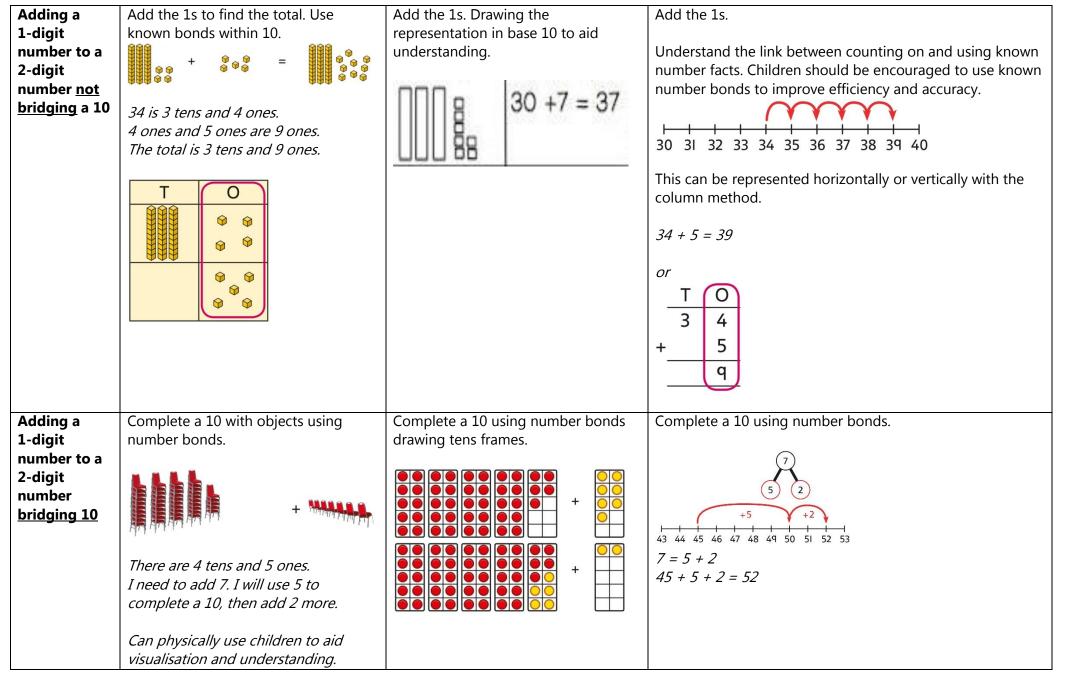


		Year 1 Division	
Grouping	Learn to make equal groups from a whole and find how many equal groups of a certain size can be made.	Represent a whole and work out how many equal groups.	Children may relate this to counting back in steps of 2, 5 or 10.
	Sort a whole set people and objects into equal groups.	00000 00000	
	There are 10 children altogether. There are 2 in each group.	<i>There are 10 in total. There are 5 in each group. There are 2 groups.</i>	0 i 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Sharing	There are 5 groups.Share a set of objects into equal parts and work out how many are in each part.	Sketch or draw to represent sharing into equal parts. This may be related to fractions.	Can understand written statements on sharing. 10 shared into 2 equal groups gives 5 in
			each group.



	Year 2				
	Concrete	Pictorial	Abstract		
	Year 2 Addition				
Understandin g 10s and 1s	Group objects into 10s and 1s.	Understand 10s and 1s equipment, and link with visual representations. Drawing base 10 to aid understanding.	Represent numbers on a place value grid, using equipment or numerals.     Tens   0   3   2     Tens   0   4		
Adding 10s	Use known bonds and unitising to add 10s. interpretation for a field of the second	Use known bonds and unitising to add 10s. $ \begin{array}{c} \bullet & \bullet \\ \bullet &$	Use known bonds and unitising to add 10s. $\begin{array}{r} 7\\ 4\\ 3\\ 4+3=\end{array}$ $\begin{array}{r} 4+3=7\\ 4 tens+3 tens=7 tens\\ 40+30=70\end{array}$		







Using the	Using base 10 and place value charts	Drawing base 10 to reiterate process.	Using the written method to fully grasp concept.
expanded	to understand the expanded method.		
column		11 + 12 =	23 + 22 =
method	37 + 11 =		
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	Tens Ones		Tens Ones
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	+ 000-	1	20 + 2
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Adding a	Using base 10 and place value charts	Drawing a place value chart children	Exchange 10 ones for 1 ten using the column method.
-			
1-digit	children can exchange 10 ones for 1	can draw 10s and 1s showing clearly	Teachers to decide whether they show exchanging at the
number to a	ten.	how to	top or bottom.
2-digit		exchange 10 ones for 1 ten. Either	
number	ТО	draw base 10 or 10s frames.	
using			
exchange		T O T O	+ 8
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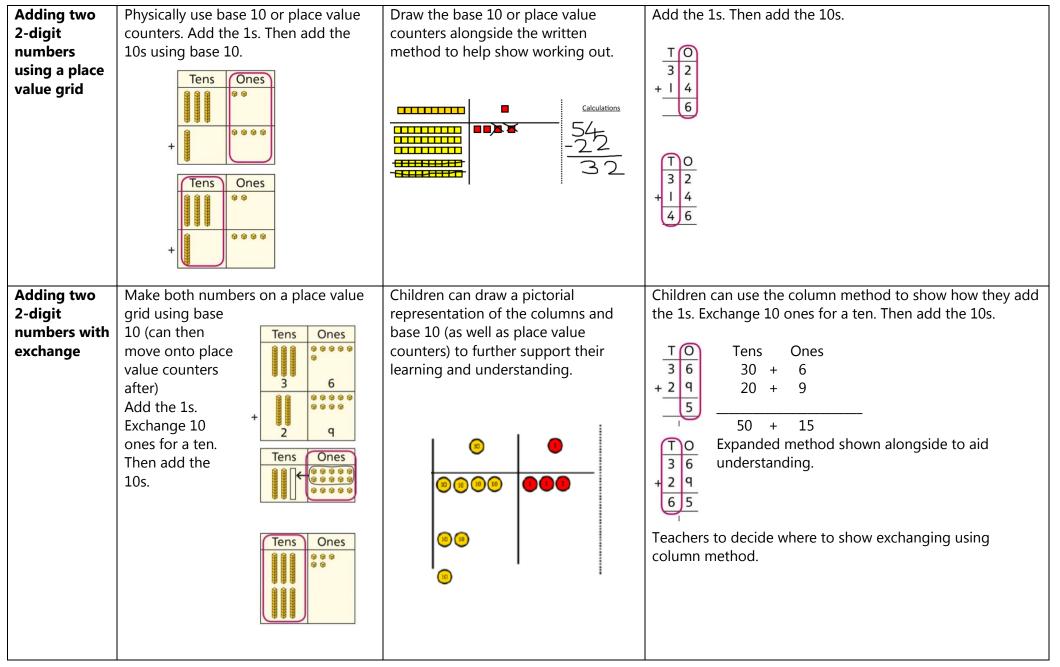


Adding a multiple of 10 to a 2- digit number	Add the 10s and then recombine.	Drawing base 10 to show the process of adding a multiple of 10 then recombining.	Add the 10s and then recombine. 37 + 20 = ? 30 + 20 = 50 50 + 7 = 57 37 + 20 = 57
Adding a multiple of 10 to a 2- digit number using columns	Add the 10s using a place value grid to support with objects or base 10.	Children can draw adding the 10s using a place value grid to support. Children partition the numbers to aid understanding.	Add the 10s with the column method. Children must understand how the method relates to unitising of 10s and place value. $T O \\ 1 6 \\ 3 0 \\ 4 6 \\ 1 + 3 = 4$



	<i>16 is 1 ten and 6 ones. 30 is 3 tens. There are 4 tens and 6 ones in total.</i>		1 ten + 3 tens = 4 tens 16 + 30 = 46
Adding two	Add the 10s and 1s separately using	<ul> <li>16 is 1 ten and 6 ones.</li> <li>30 is 3 tens.</li> <li>There are 4 tens and 6 ones in total.</li> <li>Add the 10s and 1s separately. Use a</li> </ul>	Add the 10s and the 1s separately, bridging 10s where
2-digit numbers without exchanging	base 10.	32 + II	required. A number line can be used first before the column method to support understanding.
	5 + 3 = 8 There are 8 ones in total. 3 + 2 = 5 There are 5 tens in total. 35 + 23 = 58	11 = 10 + 1 32 + 10 = 42 42 + 1 = 43 32 + 11 = 43	

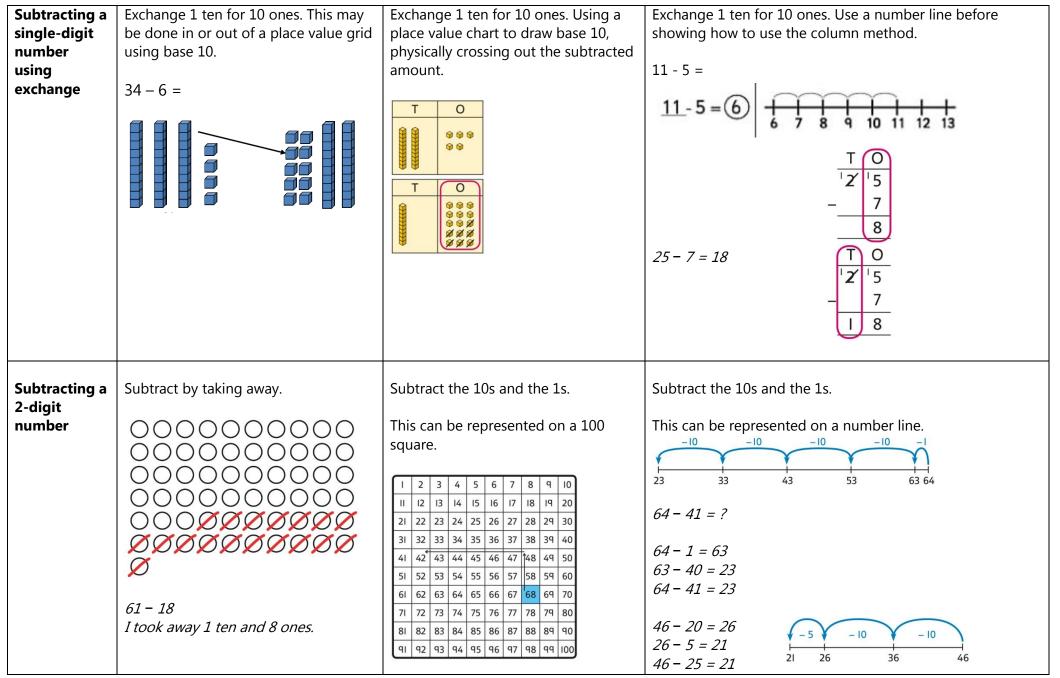






		Year 2 Subtraction	
Subtracting multiples of 10	Use known number bonds and unitising to subtract multiples of 10.	Use known number bonds and unitising to subtract multiples of 10. 100 $30$ $10-3 = 7$ So, 10 tens subtract 3 tens is 7 tens.	Use known number bonds and unitising to subtract multiples of 10. 7 $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$
Subtracting a single-digit number	Subtract the 1s using objects/base 10 or place value counters. This may be done in or out of a place value grid.	Subtract the 1s. This may be done in or out of a place value grid.	Subtract the 1s. Understand the link between counting back and subtracting the 1s using known bonds. $\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
Subtracting a single-digit number bridging 10	Bridge 10 by using known bonds. Bridge 10 by using known bonds.	Bridge 10 by using known bonds. Bridge 10 by using known bonds. 35 – 6 First, I will subtract 5, then 1.	Bridge 10 by using known bonds. -4 -4 16 17 18 19 20 21 22 23 24 25 26 24 - 6 = ? 24 - 4 - 2 = ?







Subtracting a	Subtract the 1s. Then subtract the 10s.	Draw a place value chart along with	Using column subtraction, subtract the 1s. Then subtract the
2-digit	This may be done in or out of a place	the 10s and 1s. Subtract the 1s. Then	10s. Show expanded method alongside.
number	value grid using concrete objects.	subtract the 10s (visually crossing out	
using place		the drawn representation)	T CO Tens Ones
value and	34 – 16 =		
columns			4 5 10 2
columns	Exchange a ten for ten ones.	Tens Ones	-12
	34 (3 tens and 4 ones) (2 tens and 14 ones)		3 30 3 30 3 30 3 3 3 3 3 3 3 3 3 3 3 3 3
Subtracting a	Use Base 10 to start with before	Using place value charts, draw base	Using column subtraction, exchange 1 ten for 10 ones. Then
2-digit	moving on to place value counters.	10 or place value counters to show	subtract the 1s. Then subtract the 10s.
number with	Clearly show the exchange of 10s to	exchanging 1 ten for 10 ones. Then	
exchange	ls J	subtract the 1s. Then subtract the 10s.	ТО
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		99999	TO
			<sup>3</sup> <i>H</i> <sup>1</sup> 5
		Tens Ones	- <u>27</u>
			8
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		N N N N N N N N N N N N N N N N N N N	<sup>3</sup> <i>K</i> <sup>1</sup> 5
			- 2 7
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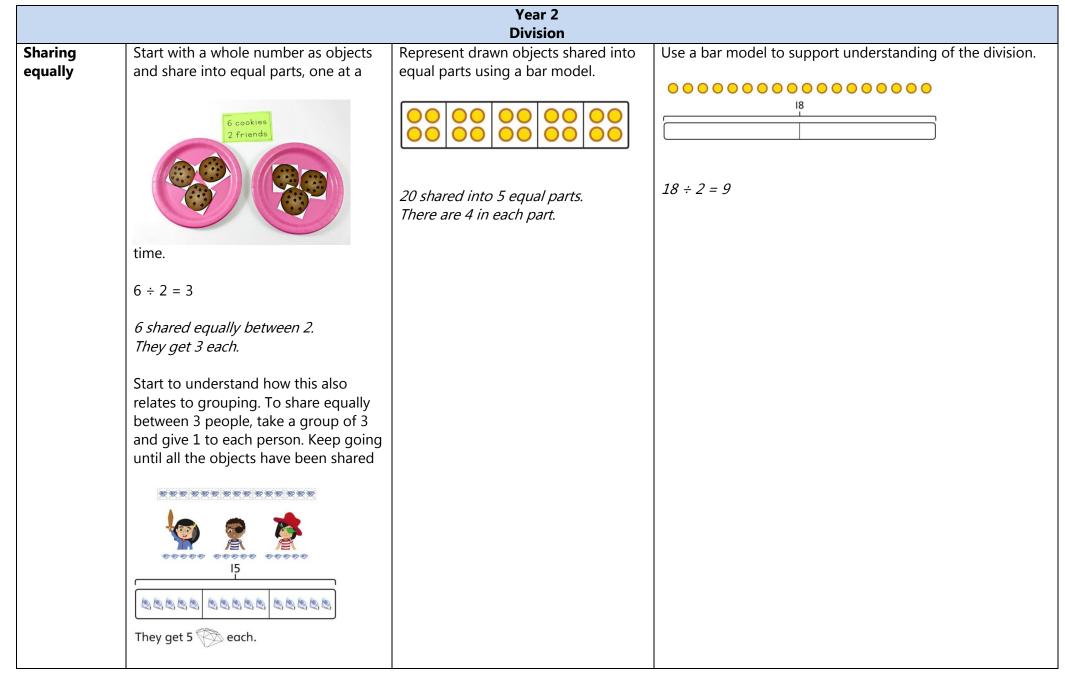


	Year 2 Multiplication			
Equal groups and repeated addition	Recognise equal groups and write as repeated addition and as multiplication. <i>3 groups of 5 children</i> ( <i>Physically have the children group</i> <i>together</i> ) <i>15 children altogether</i> <i>Can also model this with cubes.</i> interplication (Content on the content of the content on th	Recognise equal groups drawing standard objects such as counters and write as repeated addition and multiplication. <i>3 groups of 5</i> <i>15 in total</i>	Use a number line and write as repeated addition and as multiplication. $\begin{array}{c} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & $	
Using arrays to represent multiplicatio n and support understandin g	Understand the relationship between arrays, multiplication and repeated addition. $\int \frac{1}{2} \int \frac{1}{2} \int$	Understand the relationship between arrays, multiplication and repeated addition. Draw arrays in different rotations to find <b>commutative</b> multiplication sentences.	Understand the relationship between arrays, multiplication and repeated addition. 10   15   20   25 5   5 = 25	



Hand a material P		Duran anno sionalian anno 1911 it	
Understandin	Make arrays using counters to	Draw arrays visualise commutativity.	Use arrays to visualise commutativity.
g	visualise commutativity. Rotate the	Rotate the array to show that orientation	
commutativit	array to show that orientation does	does not change the multiplication.	
У	not change the multiplication.	5	
		(00000	
		3 2 0 0 0 0 0	
		00000	
		3×5 = 15	4 + 4 + 4 + 4 + 4 = 20
	<i>This is 2 groups of 6 and also 6 groups</i>	5 5 15	5 + 5 + 5 + 5 = 20
	of 2.		<i>4</i> × <i>5</i> = <i>20</i> and <i>5</i> × <i>4</i> = <i>20</i>
		<i>This is 3 lots of 5 but also 5 lots of 3</i>	
Learning ×2,	Develop an understanding of how to	Understand how to relate counting in	Understand how the times-tables increase and contain
×5 and ×10	unitise groups of 2, 5 and 10 and learn	unitised groups and repeated addition	patterns.
table facts	corresponding times-table facts.	with knowing key times-table facts.	
			10 I × 10 =
		000000000	
			10 10 2 × 10 =
		000000000	10 10 10 3 × 10 =
		000000000	10 10 10 10 4 × 10 =
		000000000	10 10 10 10 10 5 × 10 =
			10 10 10 10 10 10 6 × 10 =
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			10 10 10 10 10 10 10 10 8 × 10 =
		0 10 20 30	9 × 10 =
			10 10 10 10 10 10 10 10 10 10 10 10 10 1
	3 groups of 10 ··· 10, 20, 30	10 + 10 + 10 = 30	
	$3 \times 10 = 30$	10 + 10 + 10 = 30 $3 \times 10 = 30$	10 10 10 10 10 10 10 10 10 10 10 10 10 1
		5 ~ 10 - 50	
			5 × 10 = 50
			$6 \times 10 = 60$







	<i>15 shared equally between 3. They get 5 each.</i>		
Grouping equally	Understand how to make equal groups from a whole using people or objects.	Understand the relationship between grouping and the division statements. $12 \div 3 = 4$	Understand how to relate division by grouping to repeated subtraction.
	<u>?₽?¥\$</u> ₽₽ <u>?</u> ₽?¥ <u>\$</u> ₽₽	$12 \div 4 = 3$	
	<i>8 divided into 4 equal groups. There are 2 in each group.</i>	$12 \div 6 = 2$	0 I 2 3 4 5 6 7 8 9 IO II I2 There are 4 groups now.
		$12 \div 2 = 6$	<i>12 divided into groups of 3.</i> <i>12 ÷ 3 = 4</i>
			<i>There are 4 groups.</i>
Using known times-tables to solve divisions	Understand the relationship between multiplication facts and division by using objects.	Use number family triangle to help solve divisions visually. Fact Family 4 6 3 3 3 3 3 3 3 3	Relate times-table knowledge directly to division. $1 \times 10 = 10$ $2 \times 10 = 20$ $3 \times 10 = 30$ $4 \times 10 = 40$ $5 \times 10 = 50$ $6 \times 10 = 60$ $7 \times 10 = 70$ $8 \times 10 = 80$ <i>I</i> used the 10 times-table to help me. $3 \times 10 = 30$ . <i>I</i> know that 3 groups of 10 makes 30, so I know that 30 divided by 10 is 3.
	<i>4 groups of 5 cars is 20 cars in total. 20 divided by 4 is 5.</i>	Link equal grouping with repeated subtraction and known times-table facts to support division.	3 × 10 = 30 so 30 ÷ 10 = 3



40 divided by 4 is 10.