



Buckden Primary Academy

## Power Maths calculation guidance, KS1

The following pages show the *Power Maths* progression in calculation (addition, subtraction, multiplication and division) and how this works in line with the National Curriculum. The consistent use of the CPA (concrete, pictorial, abstract) approach across *Power Maths* helps children develop mastery across all the operations in an efficient and reliable way. This policy shows how these methods develop children's confidence in their understanding of both written and mental methods.



## **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

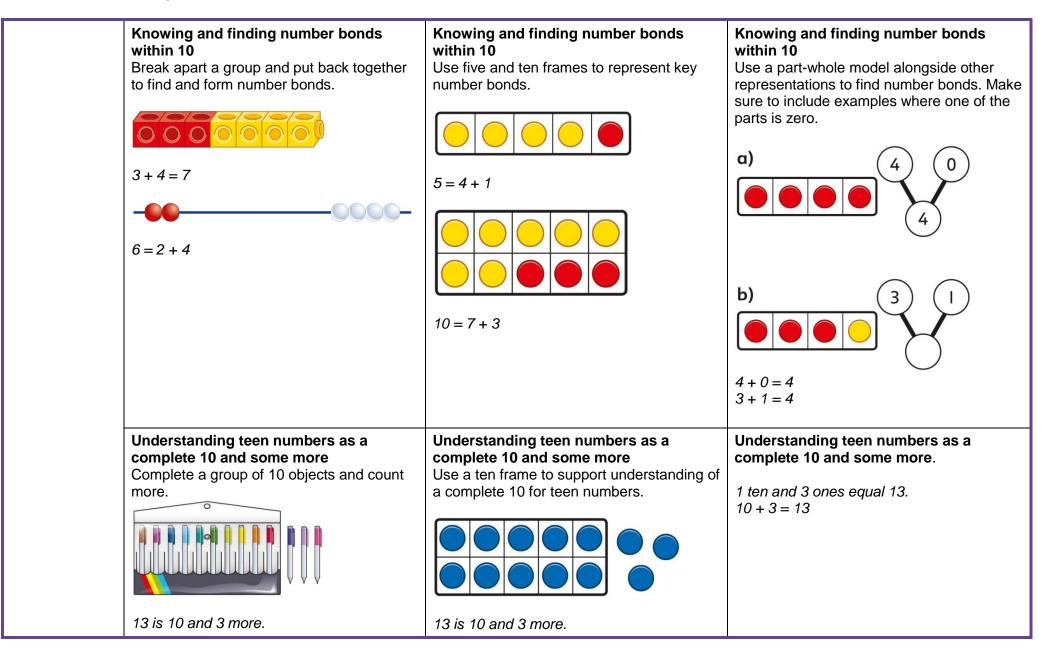
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Addition and subtraction: Children first learn to connect addition and subtraction with counting, but they soon develop two very important skills: an understanding of parts and wholes, and an understanding of unitising 10s, to develop efficient and 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. We show the column method in Year 2 as an option; teachers may not wish to include it until Year 3.	<ul> <li>multiplication and division.</li> <li>They learn how multiplication and division can be related to repeated addition and repeated subtraction to find the answer to the calculation.</li> <li>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.</li> <li>Children begin to recall some key multiplication facts, including doubles, and an understanding of the 2, 5 and 10 times-tables and how they are</li> </ul>	<b>Fractions:</b> 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 non-examples, 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.

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	Year 1			
	Concrete	Pictorial	Abstract	
Year 1 Addition	<b>Counting and adding more</b> Children add one more person or object to a group to find one more.	<b>Counting and adding more</b> Children add one more cube or counter to a group to represent one more.	Counting and adding more Use a number line to understand how to link counting on with finding one more.	
		00000		
		One more than 4 is 5.	One more than 6 is 7. 7 is one more than 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 people and objects into parts and understand the relationship with the whole.	Understanding part-part-whole relationship Children draw to represent the parts and understand the relationship with the whole.	Understanding part-part-whole relationship Use a part-whole model to represent the numbers.	
			6 + 4 = 10	
	The parts are 2 and 4. The whole is 6.	The parts are 1 and 5. The whole is 6.	6 + 4 = 10	

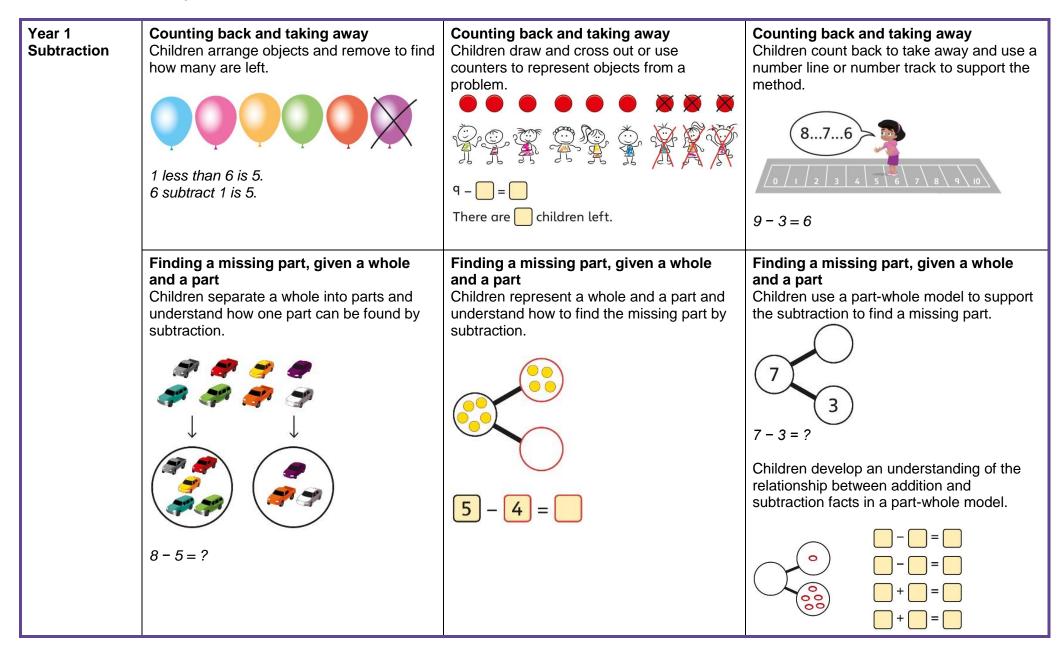






Adding by counting on Children use knowledge of counting to 20 to find a total by counting on using people or objects.	Adding by counting on Children use counters to support and represent their counting on strategy.	Adding by counting on Children use number lines or number tracks to support their counting 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. 2+3=5 12+3=15	Adding the 1s Children represent calculations using ten frames to add a teen and 1s. 2 + 3 = 5 $12 + 3 = 15$	Adding the 1s 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.	Bridging the 10 using number bonds Children use counters to complete a ten frame and understand how they can add using knowledge of number bonds to 10.	Bridging the 10 using number bonds Use a part-whole model and a number line to support the calculation. 4 1 3 9 1 1 3 9 1 1 1 1 1 1 1 1 1 1







Finding the difference Arrange two groups so that the difference between the groups can be worked out.	Finding the difference Represent objects using sketches or counters to support finding the difference. 5-4=1	Finding the difference Children understand 'find the difference' as subtraction. 10 - 4 = 6 The difference between 10 and 6 is 4.
6 is 2 less than 8. The difference between 8 and 6 is 2.	The difference between 5 and 4 is 1.	
Subtraction within 20 Understand when and how to subtract 1s efficiently.	<b>Subtraction within 20</b> Understand when and how to subtract 1s efficiently.	<b>Subtraction within 20</b> Understand how to use knowledge of bonds within 10 to subtract efficiently.
Use a bead string to subtract 1s efficiently.	$ \begin{array}{c}                                     $	5 - 3 = 2 15 - 3 = 12
5 - 3 = 2 15 - 3 = 12	5 - 3 = 2 15 - 3 = 12	
Subtracting 10s and 1s For example: 18 – 12	<b>Subtracting 10s and 1s</b> For example: 18 – 12	Subtracting 10s and 1s Use a part-whole model to support the calculation.
Subtract 12 by first subtracting the 10, then the remaining 2.	Use ten frames to represent the efficient method of subtracting 12.	
		$ \begin{array}{c} (10) & (4) \\ 19 - 14 \\ 19 - 10 = 9 \end{array} $
First subtract the 10, then take away 2.	First subtract the 10, then subtract 2.	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: Comparison of the example: 12 – 7         Arrange objects into a 10 and some 1s, then decide on how to split the 7 into parts.         Image: Comparison of the example: 12 – 7         Image: Comparison of the example: 12 – 7	Subtraction bridging 10 using number bonds         Represent the use of bonds using ten frames.         Image: Control of the second sec	Subtraction bridging 10 using number bonds 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	Recognising and making equal groups 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	Finding the total of equal groups by counting in 2s, 5s and 10s 100 squares and ten frames support counting in 2s, 5s and 10s. 100 = 23 $100 = 25$ $10$	Finding the total of equal groups by counting in 2s, 5s and 10s Use a number line to support repeated addition through counting in 2s, 5s and 10s. 10  10  10  10  10 0  10  20  30  40  50



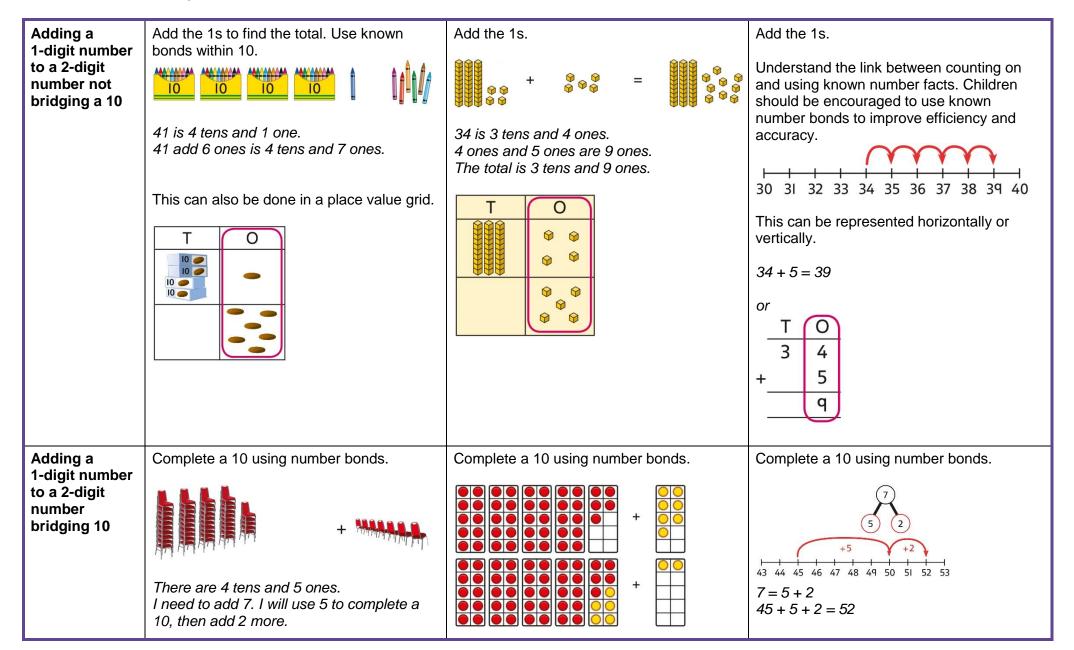
Year 1 Division	Grouping Learn to make equal groups from a whole and find how many equal groups of a certain size can be made.Sort a whole set people and objects into 	Grouping Represent a whole and work out how many equal groups. There are 10 in total. There are 5 in each group. There are 2 groups.	Grouping Children may relate this to counting back in steps of 2, 5 or 10.
	Sharing Share a set of objects into equal parts and work out how many are in each part.	Sharing         Sketch or draw to represent sharing into equal parts. This may be related to fractions.         Image: state of the state of th	<b>Sharing</b> 10 shared into 2 equal groups gives 5 in each group.



	Year 2			
	Concrete	Pictorial	Abstract	
Year 2 Addition				
Understanding 10s and 1s	Group objects into 10s and 1s.	Understand 10s and 1s equipment, and link with visual representations on ten frames.	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. Use known bonds and unitising to add 10s. interpretation 0 interpretation 0 int	Use known bonds and unitising to add 10s.	Use known bonds and unitising to add 10s. 7 4 3 4 + 3 = 1 4 + 3 = 7 $4 \tan 3 = 7 \tan 3$ 40 + 30 = 70	

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Adding a 1-digit number	Exchange 10 ones for 1 ten.	Exchange 10 ones for 1 ten.	Exchange 10 ones for 1 ten.
to a 2-digit number using exchange			$\begin{array}{c} T \\ \hline 2 \\ + \\ \hline 2 \\ \hline 1 \\ \end{array}$
			T     O       2     4       8       3     2       1
Adding a multiple of 10	Add the 10s and then recombine.	Add the 10s and then recombine.	Add the 10s and then recombine.
to a 2-digit number	27 is 2 tens and 7 ones.         50 is 5 tens.	$\begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\$	37 + 20 = ? 30 + 20 = 50 50 + 7 = 57 37 + 20 = 57
	There are 7 tens in total and 7 ones. So, 27 + 50 is 7 tens and 7 ones.	66 + 10 = 76 A 100 square can support this understanding. $1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \ 10 \ 11 \ 12 \ 13 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \ 10 \ 12 \ 22 \ 23 \ 24 \ 25 \ 26 \ 27 \ 28 \ 29 \ 30 \ 31 \ 32 \ 33 \ 34 \ 45 \ 46 \ 47 \ 48 \ 49 \ 50 \ 51 \ 52 \ 53 \ 54 \ 55 \ 55 \ 57 \ 58 \ 59 \ 40 \ 61 \ 62 \ 63 \ 64 \ 65 \ 66 \ 67 \ 68 \ 69 \ 70 \ 71 \ 72 \ 77 \ 77 \ 77 \ 78 \ 77 \ 78 \ 77 \ 80 \ 88 \ 89 \ 90 \ 91 \ 90 \ 91 \ 91 \ 91 \ 91 \ 9$	

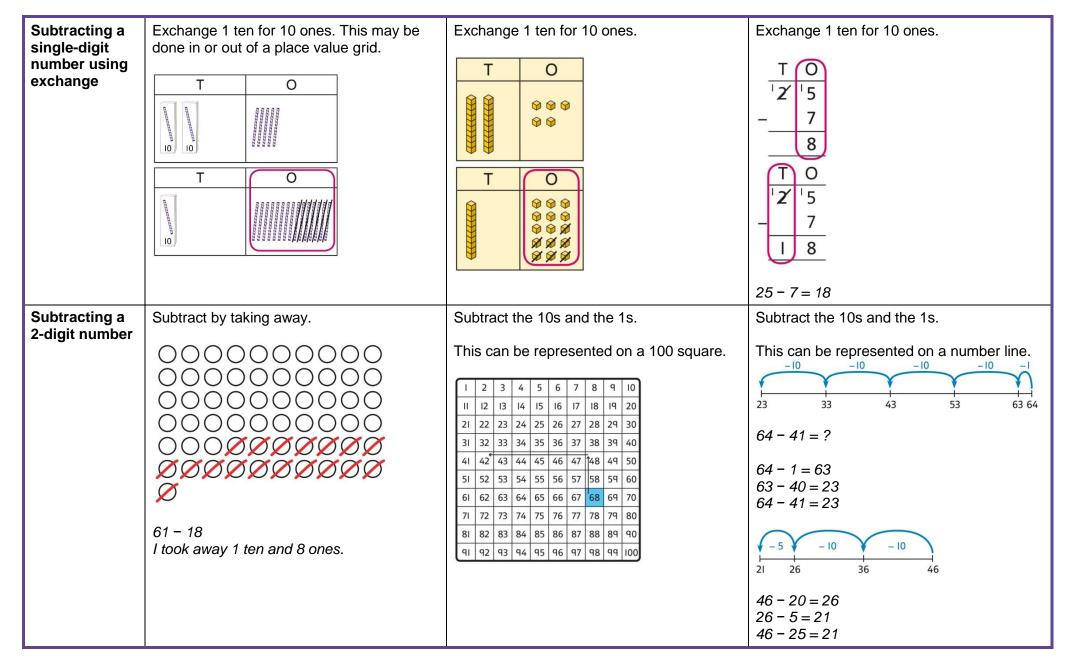
Adding a multiple of 10 to a 2-digit number using columns	Add the 10s using a place value grid to support. TOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	Add the 10s using a place value grid to support. TO O O O O O O O O O O O O O O O O O O	Add the 10s represented vertically. Children must understand how the method relates to unitising of 10s and place value. $\begin{array}{r} \hline T & O \\ \hline I & 6 \\ \hline 4 & 0 \\ \hline 4 & 6 \end{array}$ $1 + 3 = 4$ $1 ten + 3 tens = 4 tens$ $16 + 30 = 46$
Adding two 2-digit numbers	Add the 10s and 1s separately. Add the 10s and 1s separately. 5+3=8 There are 8 ones in total. 3+2=5 There are 5 tens in total. 35+23=58	Add the 10s and 1s separately. Use a part-whole model to support. 32 + 11 $11 = 10 + 1$ $32 + 10 = 42$ $42 + 1 = 43$ $32 + 11 = 43$	Add the 10s and the 1s separately, bridging 10s where required. A number line can support the calculations. $\frac{+10 + 10 + 3 + 2}{17} + \frac{T \ 0}{17} + \frac{2 \ 5}{}$ 17 + 25



Adding two 2-digit numbers using a place value grid	Add the 1s. Then add the 10s.	Add the 1s. Then add the 10s. $T \bigcirc 3 2 + 1 4 - 6 = 6 = 6 = 6 = 6 = 6 = 6 = 6 = 6 = 6$
Adding two 2-digit numbers with exchange	Add the 1s. Exchange 10 ones for a ten. Then add the 10s. Tens Ones 9 9 9 9 9 9 9 9 9 9 9 9 9	Add the 1s. Exchange 10 ones for a ten. Then add the 10s. $\frac{T}{3} \stackrel{\bigcirc}{6} + 2 \stackrel{\bigcirc}{9} - \frac{1}{5} \stackrel{\bigcirc}{1} - \frac{1}{5} \stackrel{\frown}{1} - \frac{1}{5} \stackrel{\frown}$



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.	Use known number bonds and unitising to subtract multiples of 10.
	Q Q X X X X X X X	IO0           30	2 5 20 50
	8 subtract 6 is 2. So, 8 tens subtract 6 tens is 2 tens.	10 - 3 = 7 So, 10 tens subtract 3 tens is 7 tens.	7 tens subtract 5 tens is 2 tens. 70 − 50 = 20
Subtracting a single-digit number	Subtract the 1s. 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.
			$\begin{array}{ccc} T & O \\ \hline 3 & q \\ \hline - & 3 \\ \hline 3 & 6 \\ \hline & 39 - 3 = 36 \end{array}$
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.
	35 − 6 I took away 5 counters, then 1 more.	35 − 6 First, I will subtract 5, then 1.	24 - 6 = ? 24 - 4 - 2 = ?

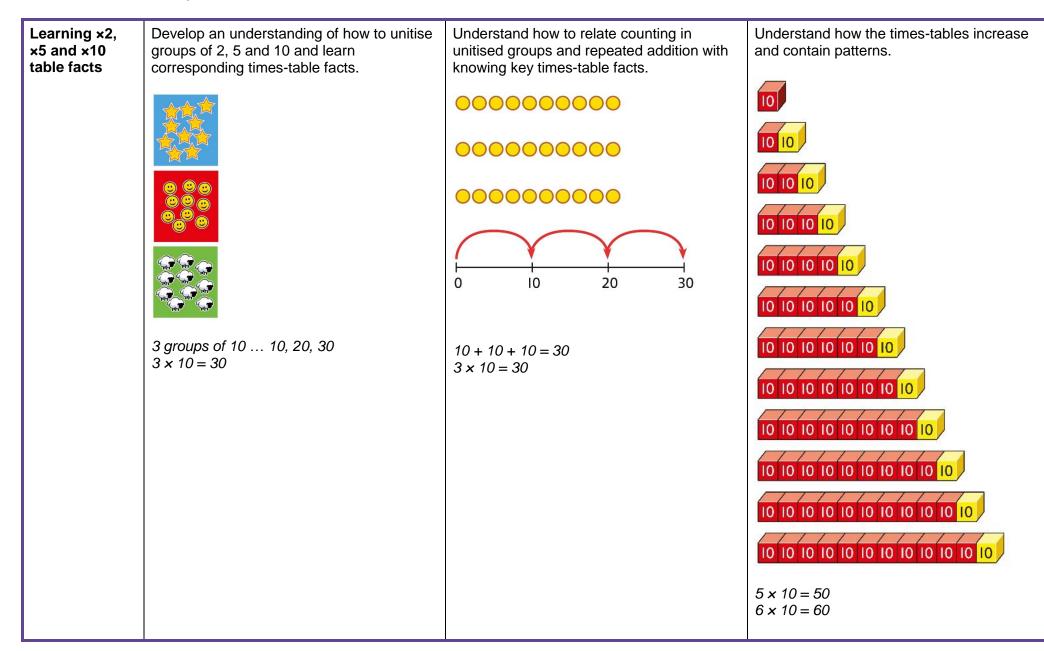




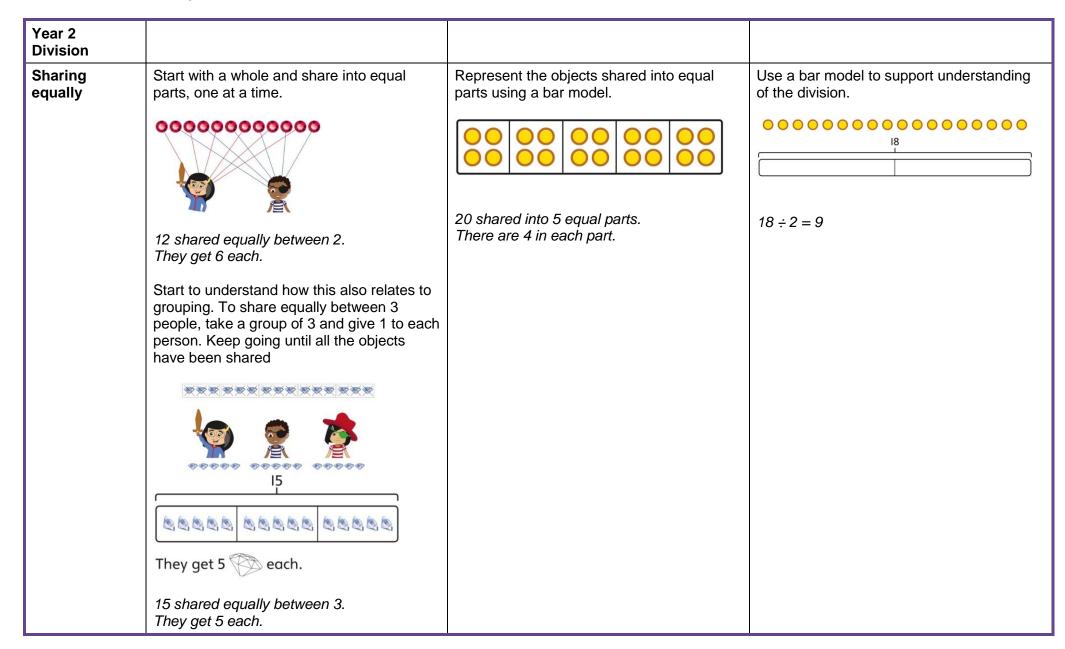
Subtracting a 2-digit number using place value and columns	Subtract the 1s. Then subtract the 10s. This may be done in or out of a place value grid. T O $0000$ $0000$ $38 - 16 = 22$	Subtract the 1s. Then subtract the 10s.	Using column subtraction, subtract the 1s. Then subtract the 10s. $\begin{array}{r} T \\ \hline 4 \\ 5 \\ \hline -1 \\ \hline 2 \\ \hline 3 \\ \hline 1 \\ 2 \\ \hline 3 \\ \hline 3 \\ \hline \end{array}$
Subtracting a 2-digit number with exchange		Exchange 1 ten for 10 ones. Then subtract the 1s. Then subtract the 10s.	Using column subtraction, exchange 1 ten for 10 ones. Then subtract the 1s. Then subtract the 10s. $\frac{T}{4} \frac{O}{4} \frac{O}{5}$ $-\frac{2}{2} \frac{7}{7}$ $\frac{T}{3} \frac{O}{3} \frac{1}{4} \frac{1}{5}$ $-\frac{2}{2} \frac{7}{7}$ $\frac{T}{8} \frac{O}{3} \frac{1}{4} \frac{1}{5}$ $-\frac{2}{2} \frac{7}{8}$ $\frac{T}{3} \frac{O}{3} \frac{1}{4} \frac{1}{5}$ $-\frac{2}{2} \frac{7}{1}$ $\frac{8}{1}$

Year 2 Multiplication			
Equal groups and repeated addition	Recognise equal groups and write as repeated addition and as multiplication.	Recognise equal groups using standard objects such as counters and write as repeated addition and multiplication.	Use a number line and write as repeated addition and as multiplication. $\begin{array}{c} & & \\$
Using arrays to represent multiplication and support understanding	Understand the relationship between arrays, multiplication and repeated addition.	Understand the relationship between arrays, multiplication and repeated addition.	Understand the relationship between arrays, multiplication and repeated addition. $10$ $15$ $10$ $15$ $20$ $25$ $5 \times 5 = 25$
Understanding commutativity	Use arrays to visualise commutativity.	Form arrays using counters to visualise commutativity. Rotate the array to show that orientation does not change the multiplication. This is 2 groups of 6 and also 6 groups of 2.	Use arrays to visualise commutativity. $\begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array}$ $\begin{array}{c} \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \end{array}$ $\begin{array}{c} \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \end{array}$ $\begin{array}{c} \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \end{array}$ $\begin{array}{c} \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \end{array}$ $\begin{array}{c} \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \end{array}$ $\begin{array}{c} \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \end{array}$ $\begin{array}{c} \bullet \bullet \bullet 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Grouping equally	Understand how to make equal groups from a whole.	Understand the relationship between grouping and the division statements.	Understand how to relate division by grouping to repeated subtraction.
	<u></u>	$12 \div 3 = 4$	
	8 divided into 4 equal groups. There are 2 in each group.	$12 \div 4 = 3$	0 1 2 3 4 5 6 7 8 9 10 11 12
		12 ÷ 6 = 2	There are 4 groups now.
		$2 \div 2 = 6$	12 divided into groups of 3. $12 \div 3 = 4$
		$12 \neq 2 = 0$	There are 4 groups.
Using known times-tables to solve divisions	Understand the relationship between multiplication facts and division.	Link equal grouping with repeated subtraction and known times-table facts to support division.	Relate times-table knowledge directly to division.
	4 groups of 5 cars is 20 cars in total.	40 divided by 4 is 10. Use a bar model to support understanding of the link between times-table knowledge	$I \times I0 = I0$ $2 \times I0 = 20$ $3 \times I0 = 30$ $4 \times I0 = 40$ $5 \times I0 = 50$ $6 \times I0 = 60$ $7 \times I0 = 70$ $8 \times I0 = 80$ $I \text{ know that 3 groups of 10 makes 30, so I}$
	20 divided by 4 is 5.	and division.	know that 30 divided by 10 is 3. $3 \times 10 = 30$ so $30 \div 10 = 3$