



		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.	<b>Counting and adding more</b> Use a number line to understand how to link counting on with finding one more.
			0 1 2 3 4 5 6 7 8 9 10
		One more than 4 is 5.	<i>One more than 6 is 7.</i> <i>7 is one more than 6.</i>
			Learn to link counting on with adding more than one. 0 + 2 + 3 + 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. 10 6 $46 + 4 = 106 + 4 = 10$
	The parts are 2 and 4. The whole is 6.		











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	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.	Adding the 1s Children represent calculations using ten frames to add a teen and 1s.	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
2 + 3 = 5 12 + 3 = 15	2 + 3 = 5 12 + 3 = 15	$S_{0}, 13 + 5 = 18$











<b>Finding the difference</b> Arrange two groups so that the difference between the groups can be worked out.	<b>Finding the difference</b> Represent objects using sketches or counters to support finding the difference.	<b>Finding the difference</b> Children understand 'find the difference' as subtraction.
Image: Second system       Image: Second system         Image: Second	5 - 4 = 1 The difference between 5 and 4 is 1.	$\begin{array}{c} & & & \\ \hline & & & \\ 0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 \\ 10 - 4 = 6 \\ \hline & \\ The difference between 10 and 6 is 4. \end{array}$
Subtraction within 20 Understand when and how to subtract 1s efficiently.	Subtraction within 20 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. 5-3=2 15-3=12	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5 - 3 = 2 15 - 3 = 12
Subtracting 10s and 1s For example: 18 – 12	Subtracting 10s and 1s 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} 14 \\ 19 - 14 \\ 19 - 10 = 9 \\ 9 - 4 = 5 \\ \text{So, } 19 - 14 = 5 \end{array} $





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. $\boxed{1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \ 10}$ $\boxed{1 \ 12 \ 3 \ 4 \ 5 \ 6 \ 7 \ 18 \ 19 \ 20}$ $\boxed{1 \ 2 \ 2 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 18 \ 19 \ 20}$ $\boxed{1 \ 2 \ 2 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \ 10}$	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  10  10  10





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: Construction of the second state of the seco	<b>Sharing</b> 10 shared into 2 equal groups gives 5 in each group.