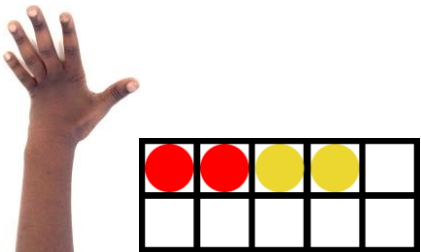
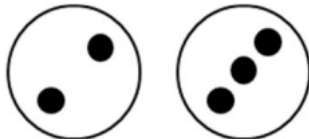
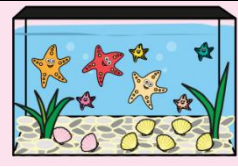


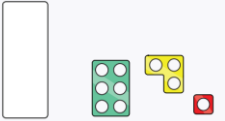
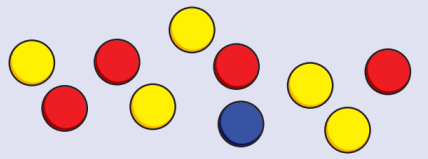
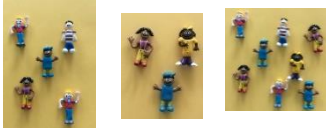
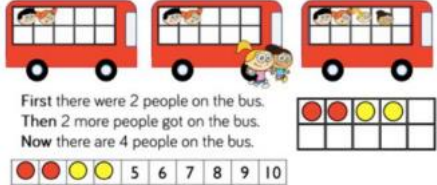
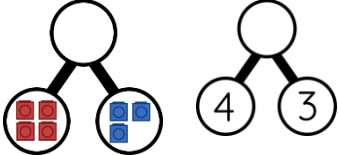
Calculation Policy

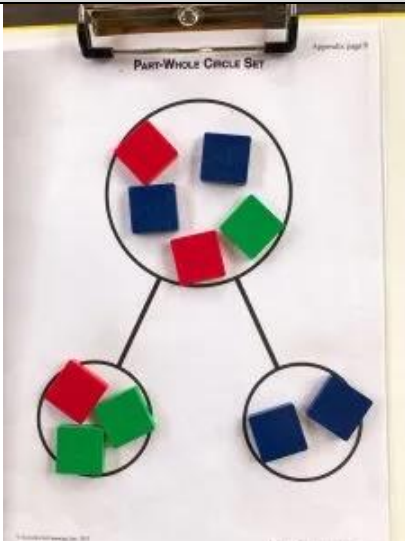
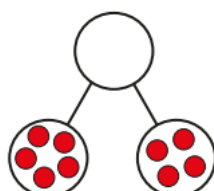
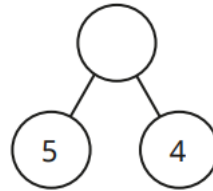
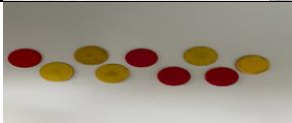
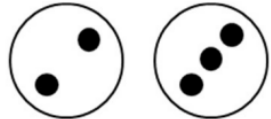
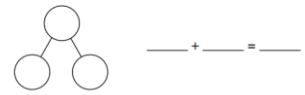
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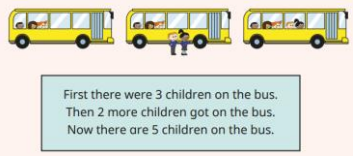
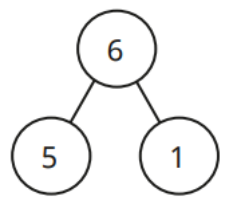
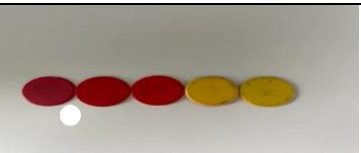
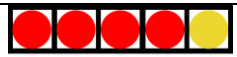
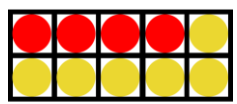
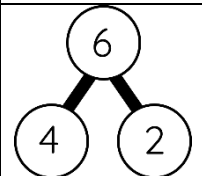
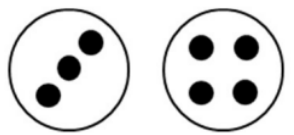
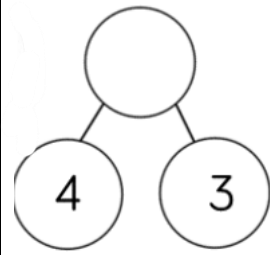
January 2024

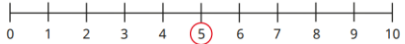
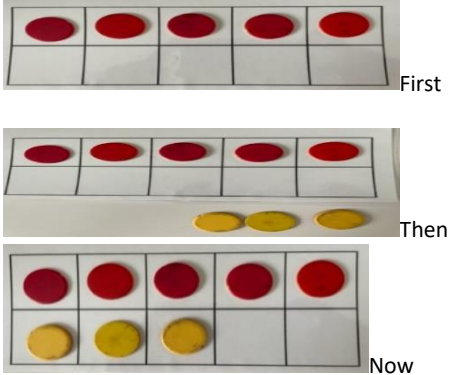
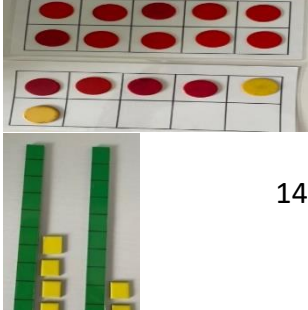
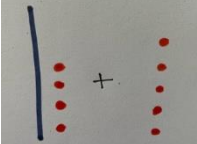
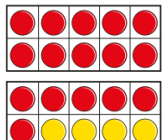
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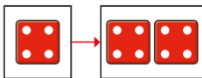
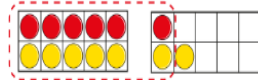
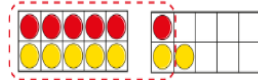
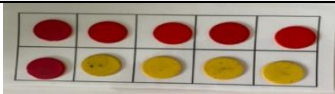
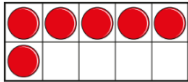
EYFS:			
Vocabulary:	first, then, now, add, plus, altogether, total, part, whole	Manipulatives & scaffolds:	Fingers Five frames Ten frames Double sided counters Numicon Cubes Bead strings Part-whole model
Small step:	Concrete:	Pictorial:	Abstract:
Combining two groups	Children begin to combine 2 groups of objects to find how many there are altogether 		How many ____ can you see? How many ____ can you see? How many can you see altogether?
1 more	 There are 7 altogether. 1 more than 6 is 7. 7 is 1 more than 6.	 There are 7 (starfish). 1 more than 7 is 8. 8 is 1 more than 7.	There are ____ There are ____ altogether. ____ is 1 more than ____ 1 more than ____ is ____

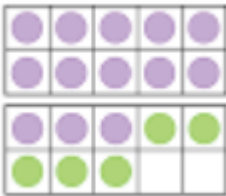
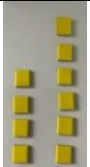
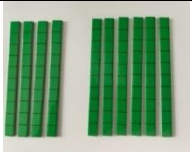
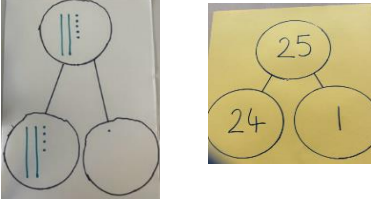
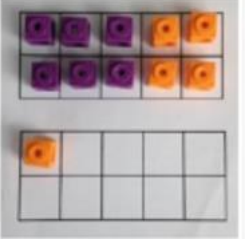
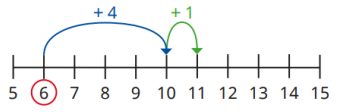
Combine two groups	 There are 3 here and 4 there. There are 7 altogether. 3 and 4 make 7.	 There are 4 dots and 2 dots. There are 6 altogether. 4 and 2 make 6.	There are ____ here and ____ there. There are ____ altogether. ____ and ____ make ____
Bonds to 10 (2 parts)	 The whole is 10. 6 is a part and 4 is a part. 6 and 4 are a bond to 10. If 6 is a part then the other part must be 4.	 The whole is 10 If 6 is a part then the other part must be 4. 6 and 4 are a bond to 10.	The whole is ____ ____ is a part and ____ is a part ____ and ____ are a bond to 10 If ____ is a part, then the other part must be ____
Bonds to 10 (3 parts)	 Use 3 Numicon pieces to cover a 10 piece. The whole is 10. I can see that 10 is made up of 6 and 3 and 1.	 There are 10 counters, the whole is 10. I can see that 10 is made up of 5 and 4 and 1.	I can see that 10 is made up of ____ and ____ and ____.
Adding more	Combine two groups of objects using practical resources, role play, stories and songs:  5 + 3 = 8	 First there were 2 people on the bus. Then 2 more people got on the bus. Now there are 4 people on the bus.	 4 + 3 =
How many did	To follow March 24		

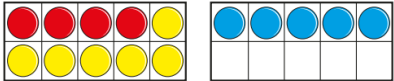
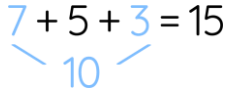
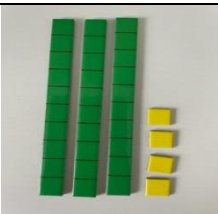
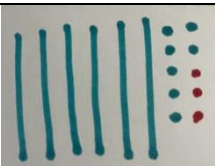
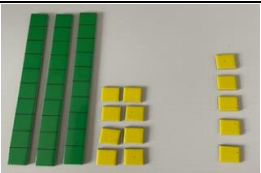
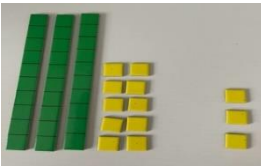
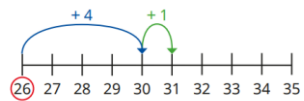
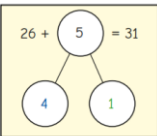
I add?			
Y1			
Vocabulary:	add, plus, altogether, total, part, whole, 2-digit number, sum, addition, more, and, makes, double	Manipulatives & scaffolds:	Ten frames Double sided counters Numicon Cubes Bead strings Part-whole model Bar model
Small step:	Concrete:	Pictorial:	Abstract:
Understand part and whole relationships		 ___ is a part ___ is a part The whole is ___	 ___ is a part ___ is a part The whole is ___
Write number sentences	 Here are some counters. Group the counters by colour. ___ red counters plus ___ yellow counters is	 $2 + 3 = 5$	 $\text{---} + \text{---} = \text{---}$

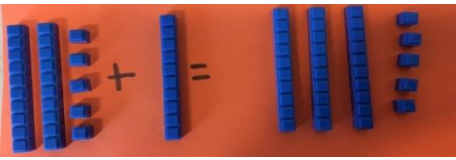
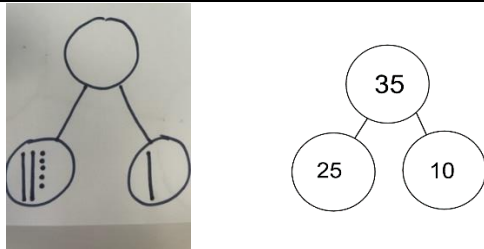
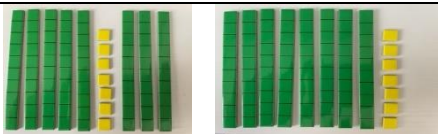
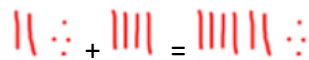
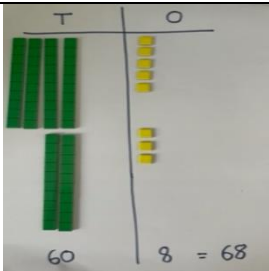
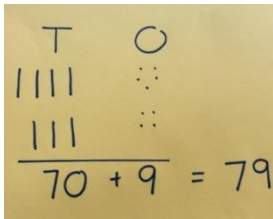
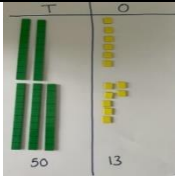
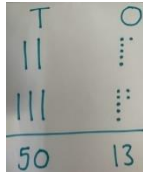
	equal to __ counters.		
Fact families – addition facts	 	 $\begin{array}{l} ___ + ___ = 7 \\ ___ + ___ = 7 \end{array}$ $\begin{array}{l} 7 = ___ + ___ \\ 7 = ___ + ___ \end{array}$	 $\begin{array}{l} 5 + 1 = 6 \\ 1 + 5 = 6 \\ 6 = 5 + 1 \\ 6 = 1 + 5 \end{array}$
Number bonds within 10	 $3 + 2 = 5$	 $4 + 1 = 5$  $4 + 6 = 10$	 $4 + 2 = 6$ 
Add together	 $4 + 3 = 7$	 $3 + 4 = 7$	 $4 + 3 = 7$

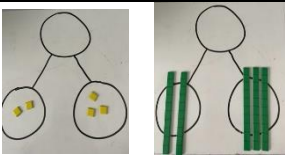
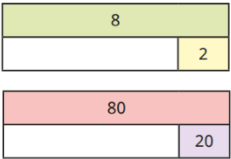
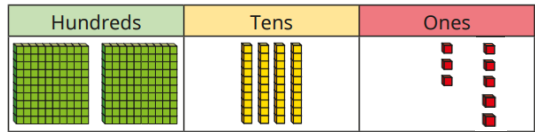
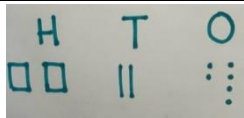
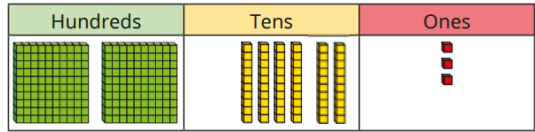
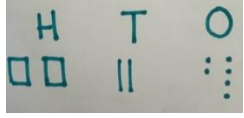
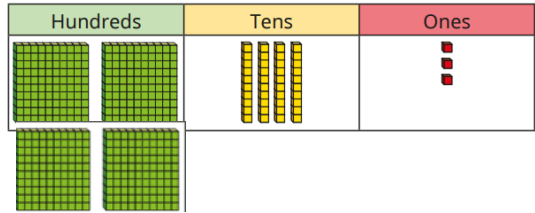
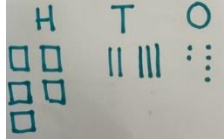
Add more	 Put 2 counters in a tens frame. Now add 8 more counters. How many counters are there altogether?	$4 + 3 =$ 	 $5 + \underline{\quad} = \underline{\quad}$
Add by counting on within 20	 First Then Now First there were 5 counters Then I added 3 Now there are 8 counters	Ann has 13 marbles. She gets 5 more marbles. How many marbles does Ann have now? 	 $9 + 6 = \underline{\quad}$
Adding ones using number bonds	 $14 + 2 =$	 $14 + 2 =$	$12 + 4 =$
Find and make number bonds to 20	 $16 + 4 = 20$	 $4 + 16 = 20$	$20 = \underline{\quad} + \underline{\quad}$ $20 = \underline{\quad} + \underline{\quad}$

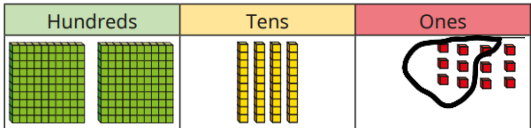
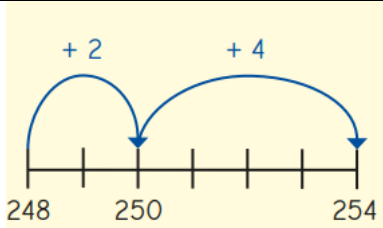
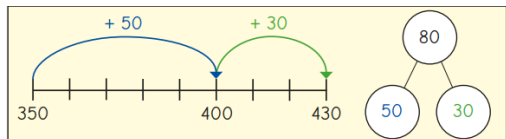
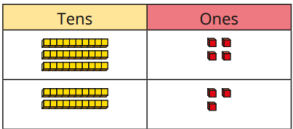
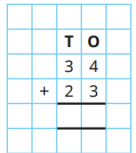
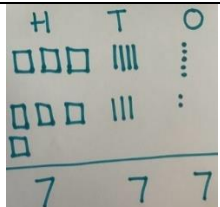
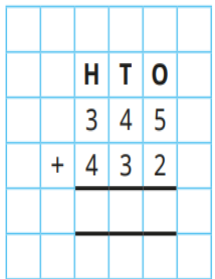
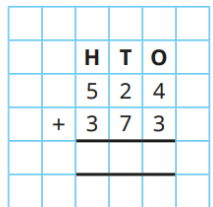
Doubles		Double 7 is__	 Double 4 is __	Double __ is __
Near doubles	 6 + 7 = 6 + 6 + 1 = Double 6 + 1 =	 6 + 7 = double ____ plus ____		Use doubles to work out the near doubles: 4 + 5 = 6 + 7 = 8 + 7 =
Y2				
Vocabulary:	add, plus, altogether, total, part, whole, 2-digit number, sum, addition, more, and, makes, double, ones, tens, partition, bonds, commutative		Manipulatives & scaffolds: Ten frames Double sided counters Numicon Cubes Base 10/Dienes Part-whole model Bar model Number line Place value charts	
Small step:	Concrete:	Pictorial:	Abstract:	
Bonds to 10	 __ + __ = 10	 5 + __ = 10	__ + __ = 10 10 = __ + __	

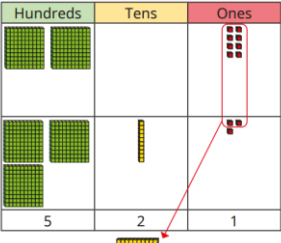
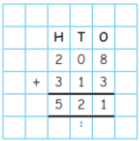
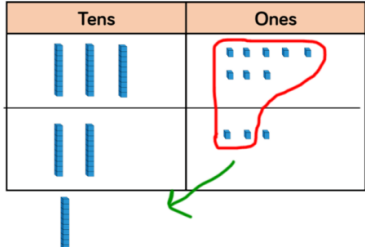
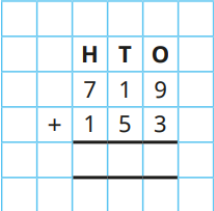
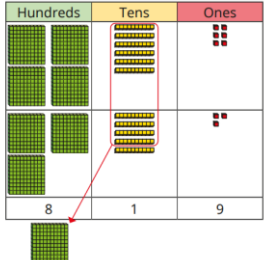
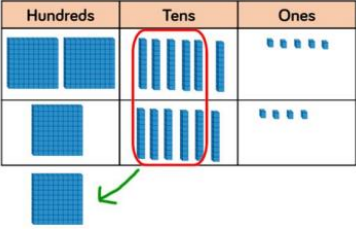
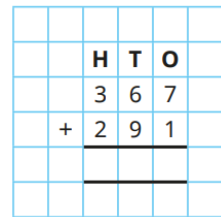
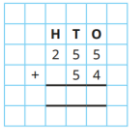
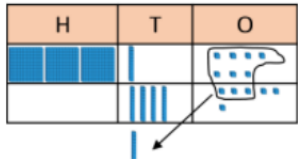
Fact families – addition bonds within 20	 $__ + __ = __$ $__ + __ = __$ $__ = __ + __$ $__ = __ + __$	 $__ + __ = __$ $__ + __ = __$ $__ = __ + __$ $__ = __ + __$	$__ + __ = __$ $__ + __ = __$ $__ = __ + __$ $__ = __ + __$
Bonds to 100 (tens)	  $4 + 6 = 10$ $40 + 60 = 100$	 $3 + 4 = 7$ $30 + 40 = 70$	$__ + __ = 100$ $100 = __ + __$
Add ones	 $24 + 1 = 25$		$46 + 1 =$ $46 + 2 =$ $46 + 3 =$
Add by making 10	 $6 + 5 = 10 + 1$ $= 11$	 $6 + 5 = 10 + 1$ $= 11$	$7 + 4 = 11$ <i>If I have seven, how many more do I need to make ten?</i> <i>How many more do I need to add?</i>

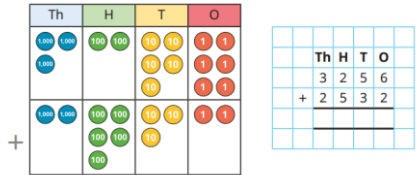
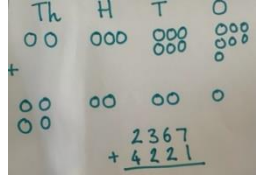
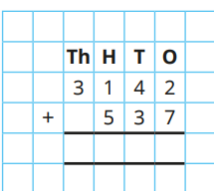
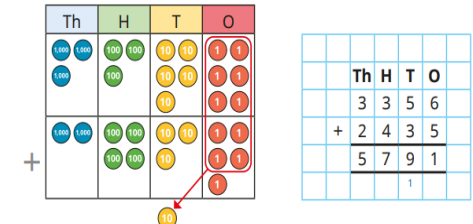
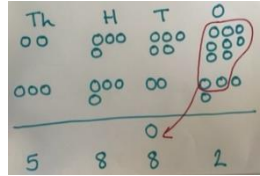
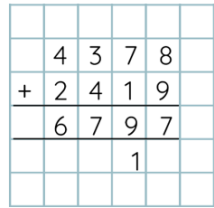
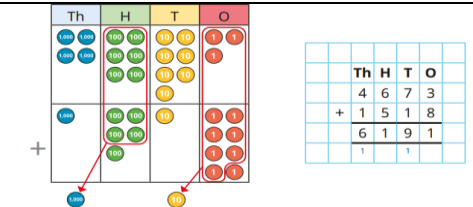
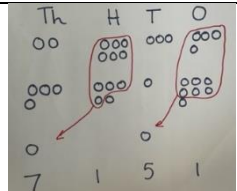
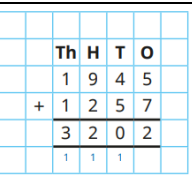
Add three 1-digit numbers	 $7 + 2 + 3 =$	 $4 + 6 + 6 =$	$7 + 5 + 3 =$ $7 + 5 + 3 = 15$ 
Add to the next 10	 The Base 10 shows 34 How many tens are there in 34? What is the multiple of 10 after 34? How many ones are there in 34? How many more ones do I need to add to get to the next multiple of 10? $34 + \underline{\quad} = \underline{\quad}$	 $67 + \underline{\quad} = 70$	$45 + \underline{\quad} = 50$ $81 + \underline{\quad} = 90$ $32 + \underline{\quad} = 40$
Add across a ten	  $38 + 5 = 40 + 3$	 	$67 + 5 =$

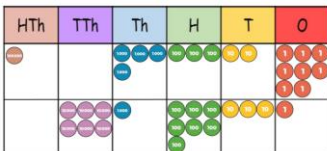
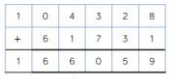
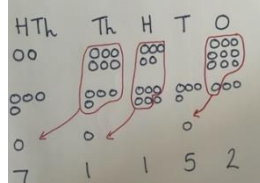
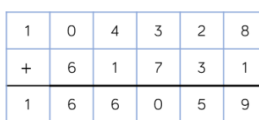
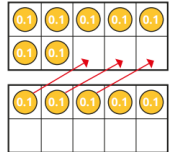
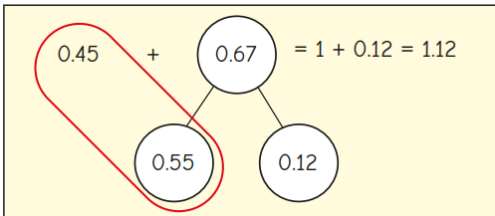
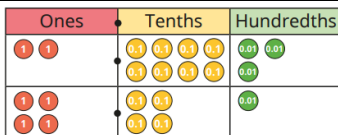
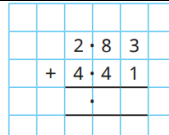
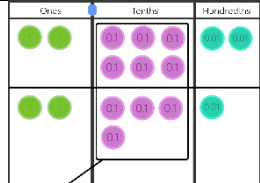
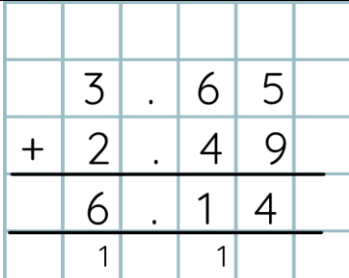
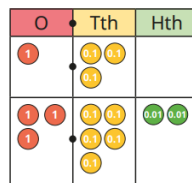
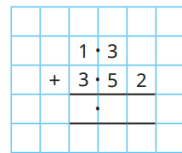
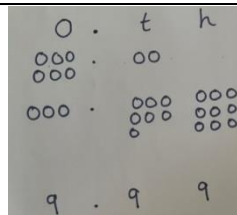
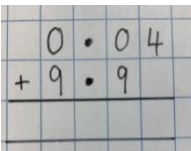
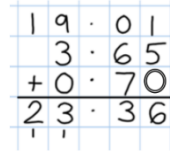
10 more	 $25 + 10 = 35$	 $25 + 10 = 35$ $10 + 25 = 35$ $35 = 25 + 10$ $35 = 10 + 25$	$25 + 10 = 35$ $10 + 25 = 35$ $35 = 25 + 10$ $35 = 10 + 25$
Add 10s	 $57 + 30 = 87$	 $24 + 40 = 64$	$23 + 10$ $54 + 40$
Add two 2-digit numbers (not across a ten)	 $60 + 8 = 68$	$45 + 34 =$  $70 + 9 = 79$	$52 + 14$ $23 + 31$
	 $26 + 37 =$ $20 + 30 = 50$ $6 + 7 = 13$ $50 + 13 = 63$	$26 + 37 =$  $20 + 30 = 50$ $6 + 7 = 13$ $50 + 13 = 63$	$26 + 37$ $46 + 27 =$ $17 + 33 =$
Y3			
Vocabulary:	add, plus, altogether, total, part, whole, 2-digit number, sum, addition, more, and, makes, double, ones, tens, partition, bonds, exchange,	Manipulatives & scaffolds:	Ten frames Double sided counters Numicon

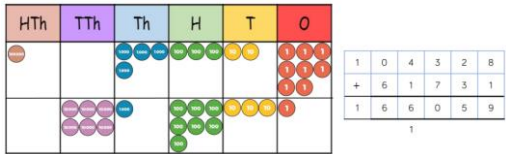
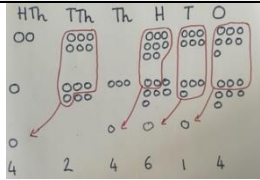
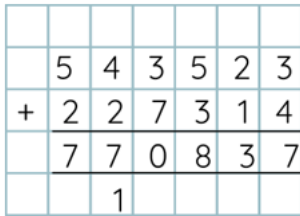
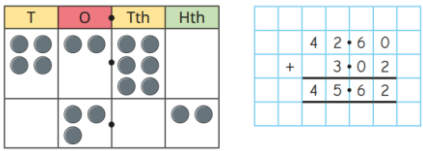
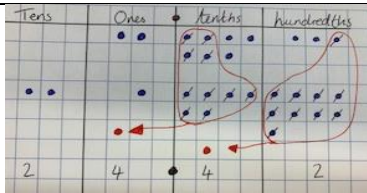
	regroup, hundreds		Cubes Base 10/Dienes Part-whole model Bar model Number line Place value charts Place value counters
Small step:	Concrete:	Pictorial:	Abstract:
Apply number bonds	 $2 + 3 = 5$ $20 + 30 = 50$	 $__ + 2 = 8$ $__ + 20 = 80$	$2 + __ = 5$ $20 + __ = 50$
Add ones	 $243 + 5 =$	 $222 + 4 =$	$354 + 4$ $215 + 3$ $461 + 8$
Add tens	 $243 + 20 =$	 $226 + 30 =$	$546 + 30$ $743 + 50$ $229 + 60$
Add hundreds		 $256 + 300 =$	$378 + 400$ $579 + 300$ $285 + 600$

	$243 + 200 =$		
Add 1s across a ten	 $243 + 9 =$ $243 + 7 = 250 + 2 =$ 252	 $248 + 6 =$ $248 + 2 = 250 + 4 =$ 254	$248 + 9$
Add 10s across a hundred	 $60 + 50 =$ $60 + 40 = 100$ $100 + 10 = 110$	 $350 + 80 =$ $350 + 50 = 400 + 30 = 430$	$695 + 80$ $476 + 60$
Add two numbers (no exchange)	 $+$	  	

Add two numbers (across a ten)	 	 $\begin{array}{r} 38 \\ + 23 \\ \hline 61 \\ 1 \end{array}$	
Add two numbers (across a hundred)	 	 $\begin{array}{r} 265 \\ + 164 \\ \hline 429 \\ 1 \end{array}$	
Add 2-digit and 3-digit numbers	 	 $\begin{array}{r} 317 \\ + 46 \\ \hline 363 \\ 1 \end{array}$	537 + 82 =
Y4			
Vocabulary:	add, plus, altogether, total, part, whole, 2-digit number, sum, addition, more, and, makes, double, ones, tens, partition, bonds, exchange, regroup, hundreds, thousands	Manipulatives & scaffolds:	Ten frames Double sided counters Numicon Cubes Base 10/Dienes Part-whole model Bar model Number line Place value charts Place value counters

Small step:	Concrete:	Pictorial:	Abstract:
Add up to two 4-digit numbers – no exchange			
Add two 4-digit numbers – one exchange			
Add two 4-digit numbers – more than one exchange			
Y5			
Vocabulary:	add, plus, altogether, total, part, whole, 2-digit number, sum, addition, more, and, makes, double, ones, tens, partition, bonds, exchange, regroup, hundreds, thousands, decimals, tenths, hundredths, thousandths, decimal point		Manipulatives & scaffolds: Ten frames Double sided counters Numicon Cubes Base 10/Dienes Part-whole model Bar model Number line Place value charts Place value counters

Small step:	Concrete:	Pictorial:	Abstract:
Add whole numbers with more than four digits	 	 $\begin{array}{r} 26509 \\ + 44643 \\ \hline \end{array}$	
Add decimals across one	$0.7 + 0.5$  $\begin{array}{l} 0.7 + 0.3 = 1 \\ 1 + 0.2 = 1.2 \\ 0.7 + 0.5 = 1.2 \end{array}$	$0.45 + 0.67$ 	$0.74 + 0.42$
Add decimals with the same number of decimal places	 	 $\begin{array}{r} 2.62 \\ + 2.41 \\ \hline \end{array}$	
Add decimals with a different number of decimal places	 	 $\begin{array}{r} 6.2 \\ + 3.79 \\ \hline \end{array}$	 
Y6			
Vocabulary:	add, plus, altogether, total, part, whole, 2-digit number, sum, addition, more, and, makes,	Manipulatives & scaffolds:	Ten frames Double sided counters

	double, ones, tens, partition, bonds, exchange, regroup, hundreds, thousands, decimals, tenths, hundredths, thousandths, decimal point, integer		Numicon Cubes Base 10/Dienes Part-whole model Bar model Number line Place value charts Place value counters
Small step:	Concrete:	Pictorial:	Abstract:
Add integers		 $\begin{array}{r} 260867 \\ + 163747 \\ \hline \end{array}$	
Add decimals		 $1.73 + 21.69 =$	Insert zeros for place holders. 