Progression in written addition methods							
KS1							
Reception	Year 1	Year 2					
Children will use concrete objects (cars, blocks etc) to combine two parts to make a whole.	Children will use cubes or numicon to count on using number lines.	Children will use Base 10 and PV counters to develop understanding of partitioning and place value of two digit numbers.					
		36 + 25					
Children progressing to making their own		10s 1s					
iottings to represent the objects.		6 1					
	4 5 6 4 5 6	Children will then use jottings of tens and ones to support their understanding.					
	Children will progress to abstract number lines.	10s 1s 111					
Finally, children will represent the objects as numbers in a part whole model with a number	What is 2 more than 4? What is the sum of 2 and 4? What is the total of 4 and 2?						
sentence.	4+2	Children will progress to using partitioning					
4 + 3 = 7.		methods, progressing to the columnar method.					
	4 5 6	$\begin{array}{c} T & u \\ 20 & 3 \\ + 10 & 5 \\ \hline 30 + 8 \\ \hline 30 + 8 \\ \hline 4 \\ \hline 4 \\ \hline 4 \\ \hline 9 \\ \hline \end{array}$					

Progression in written addition methods						
KS2						
Year 3	Year 4	Year 5	Year 6			
Children will begin by using place value counters to represent calculations of 3 digit numbers. When there are 10 ones in the 1s column – we exchange for a ten, when there are 10 tens, we exchange for 1 hundred. $\underbrace{100s 10s 1s}_{6}$	Children will refine the columnar method and progress to 4 digit numbers, this method will continue the rest of the way through the school. 5368 +1453 6821 -1453 6821 -14533 -14533 -14533 -14533 -14533 -14533 -14	Children will use the columnar method for numbers with more than 4 digits and up to two decimal places. $\boxed{148281}$ $\underbrace{1534423}$ $\underbrace{682704}$ $\underbrace{381 \cdot 46}$ $\underbrace{123 \cdot 25}$ $\underbrace{404 \cdot 71}$	Children will continue to use the columnar method extended up to numbers with 3 decimal places.			

Finally, children will use the	Adding the tens column: 6+2=8 (then add then other 1) = 9 Rehearsed to children as 6 tens add 2 tens etcto re-inforce the place value of each digit.	
formal columnar method.	Adding the hundreds column:	
243	4 (hundred) + 3 (hundred) = 7 (hundred)	
+368		
611	Adding the thousands column:	
1 1	1 (thousand) + 3 (thousand) = 4 (thousand)	
	Children will also use this method to add money, up to two decimal places.	
	£3.48 + £0.78 £4.26 1 1	