YEAR 5	Addition			
Vocabulary: sum, total, parts and whole, plus, add, altogether, more than; addend + addend = sum/total (see previous year				
groups)				
Concrete	Pictorial	Abstract		
Add whole numbers with more than 4 digits.	Add whole numbers with more than	Written		
(Up to answers with 6 digits).	4 digits.	Add whole numbers with more than 4		
21 342 + 4 751 = 26 093	21 342 + 4 751 = 26 093	digits.		
	$\begin{array}{ c c c c c }\hline ? \\\hline 21,342 & 4,751 \\\hline & & & & & & & & & & & & & & & & & & $	Exchanging (building up from non exchanging then exchanging at diferent points) 21 342 + 4 751 = 26 093 TTh Th H T O 2 1 3 4 2 + 4 7 5 1 2 6 0 9 3 1		

Adding decimals (up to 3 decimal places) 0.453 + 0.664 = 1.117	Adding decimals (up to 3 decimal places) $0.453 + 0.664 = 1.117$ 0.453 0.453 0.453 0.453 0.453 0.453 0.453 0.453 0.664 0.664 0.664 0.667 0.717 1.117	Adding decimals (up to 3 decimal places) 0.453 + 0.664 = 1.117 Exchanging (building up from non exchanging then exchanging at diferent points) 0. th hth thth 0. 4 5 3 + 0. 6 6 4 1. 1 1 7 1 1
Adding negative numbers Using real life objects:	Adding negative numbers Using a number line (the number line could be represented vertically too): -3 + 4 = 1 +1 +1 +1 +1 -3 -2 -1 0 1 2 3	Adding negative numbers Develops into a mental method – no written method.

Mental Methods:				
Counting on:	<u>Adjusting:</u>	Partitioning:		
4.3 + 1.5	2 456 + 399 (add 400 and subtract 1)	Adding a power of 10		
(partition 1.5 then +1 and + 0.5)	8.3 + 1.9 (add 2 and subtract 0.1)	23 453 + 10 000 = 33 453		
	14.6 + 3.9 (add 4 and subtract 0.1)	45 321 + 1 000 = 46 321		
19.7 + 2.6				
(+2, +0.3 to the next whole number then +0.3)	Using known facts and place value:	No exchanging		
	7.5 + 2.6	42 345 + 21 423 = 63 768		
Redistribution:	7.5 + 2.5 = 10 so 7.5 + 2.6 = 10.1			
0.66 + 0.23 redistribute to 0.69 + 0.20	0.06 + 0.08	Exchanging		
	If 6 + 2 = 8 then 0.06 + 0.02 = 0.08	3.6 + 1.7		
		3 + 1 = 4		
	Derive and use addition facts to 1 (with	0.6 + 0.7 = 1 . 3		
	decimals up to 2 decimal places).	4 + 1.3 = 5.3		
	Recall and use addition facts for 1 and 10			
	(with decimal numbers up to 1 place)			
	Recall pairs of 3 digit numbers with a			
	total of 1000.			