Reception	Year 1	Year 2
Children are taught that addition is the combining of two or more	Counting on using Base 10 equipment	Drawing and counting Base 10 equipment
amounts. Children are encouraged to develop a mental image of the	Children move on to using Base 10 equipment to support	Children continue to use the Base 10 equipment to support
size of numbers. They learn to think about addition as combining	their developing understanding of addition	their calculations including exchanging 10 units for 1 ten
amounts in practical, real life situations.		when the total of the units is 10 or more. They will record
Counting all method.	11 + 5 = 16	their own drawings of the Base 10 equipment using lines for
4 + 2 count out four counters and count out two counters.		10 rods and crosses for the unit blocks
	11 cubes are lined up (1 ten and 1 unit)	34 + 23 = 2
	5 cubes are added to the line of 11 giving a total of 16	The units are added first $1+3-7$
To find how many altogether, touch and drag them into a line		The tank are added next $30 + 20 - 50$
one at a time whilst counting.		Both answers are put together $50 + 7 = 57$
		(Children just draw the rods and crosses and write the
		contracting use and the roas and crosses and write the
By touch counting and dragging children keen track of what		
they have already counted so they don't count the same item		
twice.		
Counting on method		28 + 26 - 2
4+2 count out the two groups of counters as before then cover up		$20 \pm 30 = 1$
the larger group with a cloth. Place a digit card on top of the cloth to		(A line is drawn through the units exchanged and a ten is
remind the children of the number underneath. They can then start		(A line is unawn through the units exchanged and a ten is
their count at 4, and touch count 5 and 6 in the same way as before,		The tang are then added including the exchanged ten 60
		Poth answers are put together $60 \pm 4 \pm 64$
		Both answers are put together. $60 + 4 = 64$
Finally, children learn to count a group of objects without		
touching them.		
Those who are ready may record their own calculations.		// # * //// *
		* *
year 3	Year 4/5/6	
Expanded column addition	Column addition	
Children learn to add least significant digits (ie units) first.		
65	HTU 321 62.48	
<u>+ 27</u>	625 30/ 5.40	
12 (5 + 7)	$\frac{+48}{673}$ $\frac{-65}{452}$ $\frac{+48}{-48}$ $\frac{+10.78}{-64.04}$	
<u>80 (</u> 60 + 20)	$\frac{-673}{1}$ $\frac{-102}{11}$ $\frac{376}{11}$ $\frac{\pm 4.26}{11}$	
92	1 1 1	
675	The example top left would be 'said' as follows:	
+ 48	5 units + 8 units = 13, put 3 down and carry the 10	that 7 is the tage column
$\frac{13}{(5+8)}$	2 tens + 4 tens + 1 ten that was carried over = / tens, we write that / in the tens column.	
10(3+0) 110(70 + 40)	\circ nunarea + 0 = 600, so we write 6 in the hundreds column.	
<u></u>	Children will be expected to use this method for adding number	ers with more than 3 digits, numbers involving decimals and
	adding any number of amounts together.	
leachers continue to use Base 10 to model calculations as		
needed.		