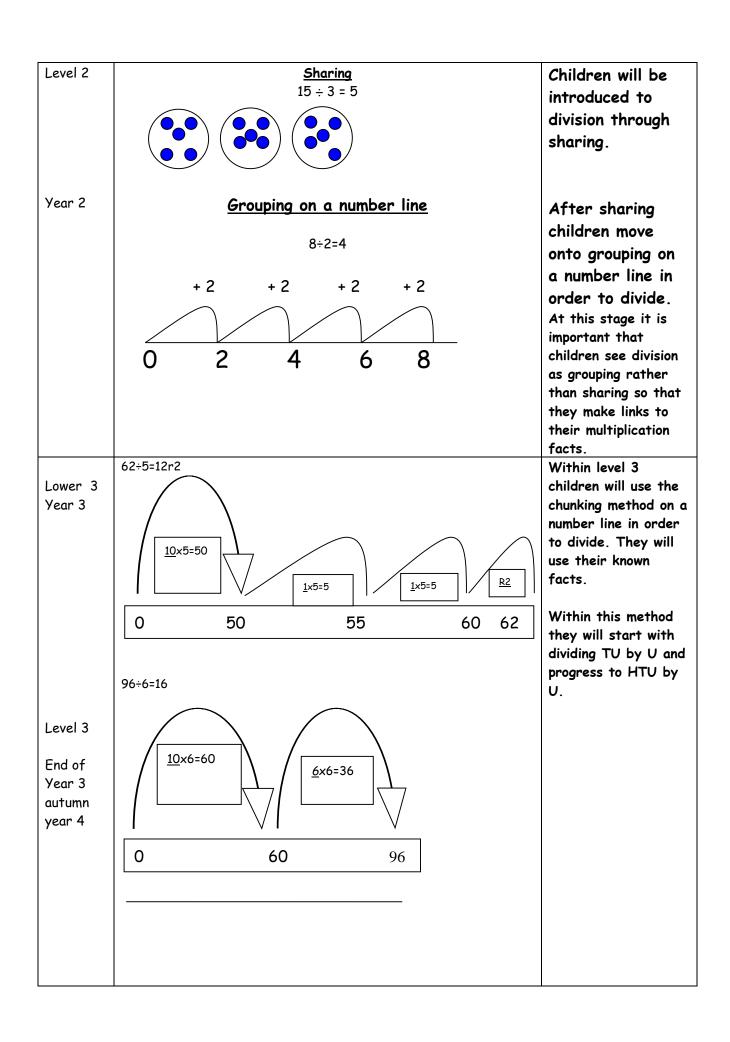
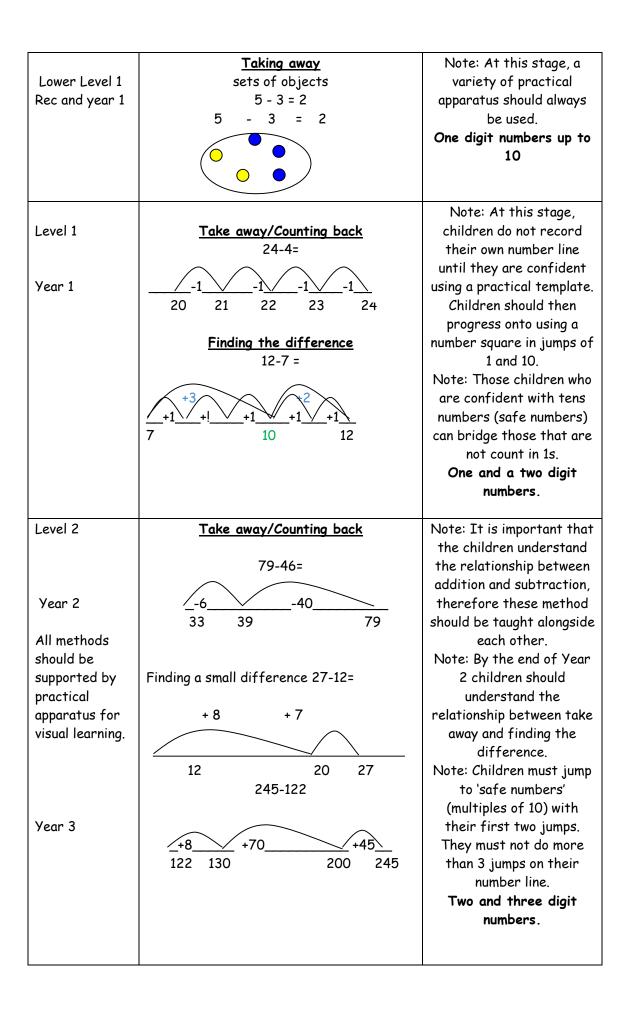
Lower Level 1 Rec/year 1	Combining sets of objects $5 + 3 = 8$ $5 + 3 = 8$	Note: At this stage children should be working with a variety of apparatus. One digit numbers up to 10
Level 1 Year 1/ Start of year 2	Counting on 6 +16 = +1 +1 +1 +1 +1 +1 16 17 18 19 20 21 22	Note: At this stage children should not record their own number lines, instead they should use a given number line template. Children should start on the number line at the most significant number. Note: From the number line children then should progress to a number square using jumps of 10 and 1 One and a two digit numbers up to 20
Level 2 Year 2	TU 34+36 	Note: Children should always start on the number line with the most significant number and label the TU of the small number.
	36 66 70	Note: Make sure children label the T and U Two, two digit numbers.
Higher level 2 Level 3 (Year 3 and autumn year 4)	Counting on from the largest number 15 + 12 = 27 T 10+ 10= 20 U 5+2=7 20+7=27 Partitioned method:	Informal Jotting Note: Make sure children are adding the most significant numbers first, partition and then recombine.
	234+294 H T U 200 90 4 +200 30 4 100 500 20 8 Recombine =528	Starting with a three digit number by a two digit number and progressing to tens of thousands as children move through level 3. Within higher level 3/ end of year 4 start to work 4 digit

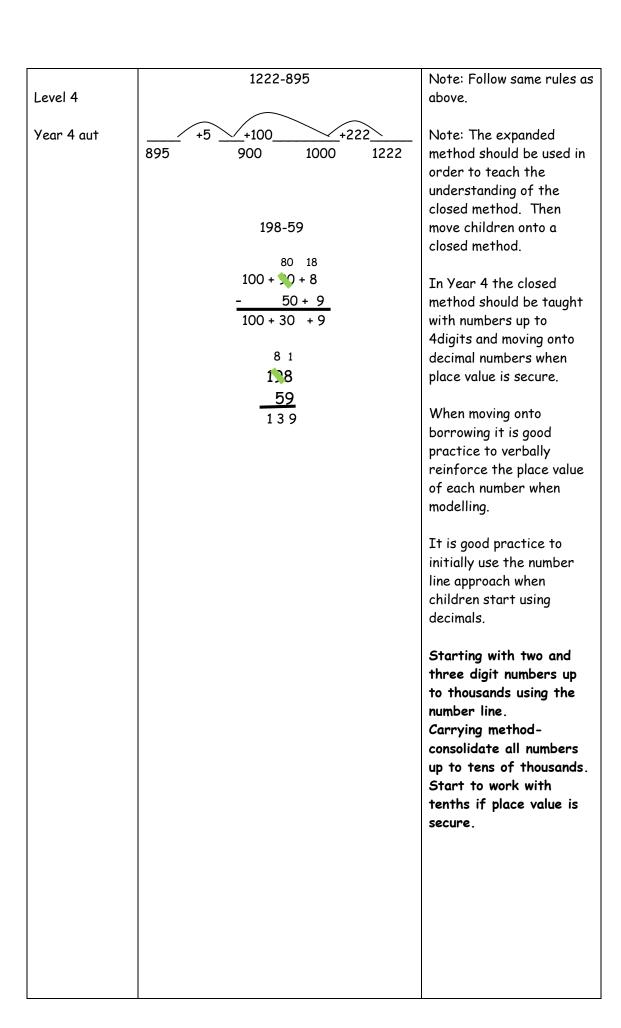
Level 4 onwards	5684 <u>156</u>	Note: Make sure the children recognise the place value of the
	<u>584 0</u>	numbers they are carryin
End of year 4	11	Note: <u>Year 4 children to stay with</u>
onwards.		4 digit numbers.
		Consolidate all types of numbers. Move to adding numbers up to millions and decimals up to 3
		decimal places.



	98 ÷ 7 becomes	1		
1	30 7 / Decomes	432 ÷ 5 becomes	496 ÷ 11 becomes	
End of year 4 and year 5	7 9 8	8 6 r2 5 4 3 2	4 5 r1 1 1 4 9 6	
	Answer: 14	Answer: 86 remainder 2	Answer: 45 1/11	
Year 5 onwards	Long division 432 ÷ 15 becomes	432 ÷ 15 becomes	432 ÷ 15 becomes	In order for this method to be
	2 8 r 12 1 5 4 3 2	2 8 1 5 4 3 2	2 8 · 8 1 5 4 3 2 · 0	successful children must be able to use their known facts
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	and have a clear understanding of x by 10 100 and 1000.
	1 2 0	1 2 0 15×8 1 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
		<u>.12'</u> = <u>4</u> 5	0	
	Answer: 28 remainder 12	Answer: 28 ⁴ / ₅	Answer: 28-8	

Level 1	Count repeated groups of the same size practically.	
Year 2		
Level 2 and lower 3	4 Arrays	Children should be taught arrays. They need to understand the vocabulary columns and rows.
Year 2	3	Children will use repeated addition on a number line if they are unsecure with their multiplcation facts. Note: the second number is the number repeated.
Level 3 and lower level 4	Partitioning 43×8 = 344 40×8=320 3×8= 24	When starting to work with TU x U numbers, children will partition in order to multiply and progress onto a more formal grid.
Year 3 and aut year 4	230+24=344 <u>Grid method</u> 43 × 8 = 344 Approximation 40 × 8 = 320	Within the more formal method, children should progress to TU by TU and HTU \times U
	40 3 8 320 24 = 344	
Middle level 4 and level 5	538 3 6 8	When moving onto a formal method (long multiplication) it is important that children have a solid understanding of place value of numbers when x by
year 4>	72	10 100 and 1000. Children need to understand the roll of the zero (place holder) when moving through columns.
Year 5 onwards	<u>X9.8</u> <u>5.76</u> 6480 <u>7056</u>	Note: Before using this method to multiply decimal numbers, children should be confident using grid method to multiply decimal number so that there is a firm understanding of the place value.





Level 4 onwards	8 1	Note: Add increasingly larger numbers using the
End of year 4 on wards	11.98	closed method including
waras	<u>159</u>	numbers with decimals.
	11039	Year 4 to stay with
		thousand numbers
		Note: At this stage
		children will have been
		taught a range of
		methods however children
		should be encouraged to
		choose the most suitable
		method remembering to
		always rely on their
		mental maths capabilities
		first.
		Consolidate all numbers.
		Start to work with millions and decimals
		**
		numbers up to three
		decimal places.