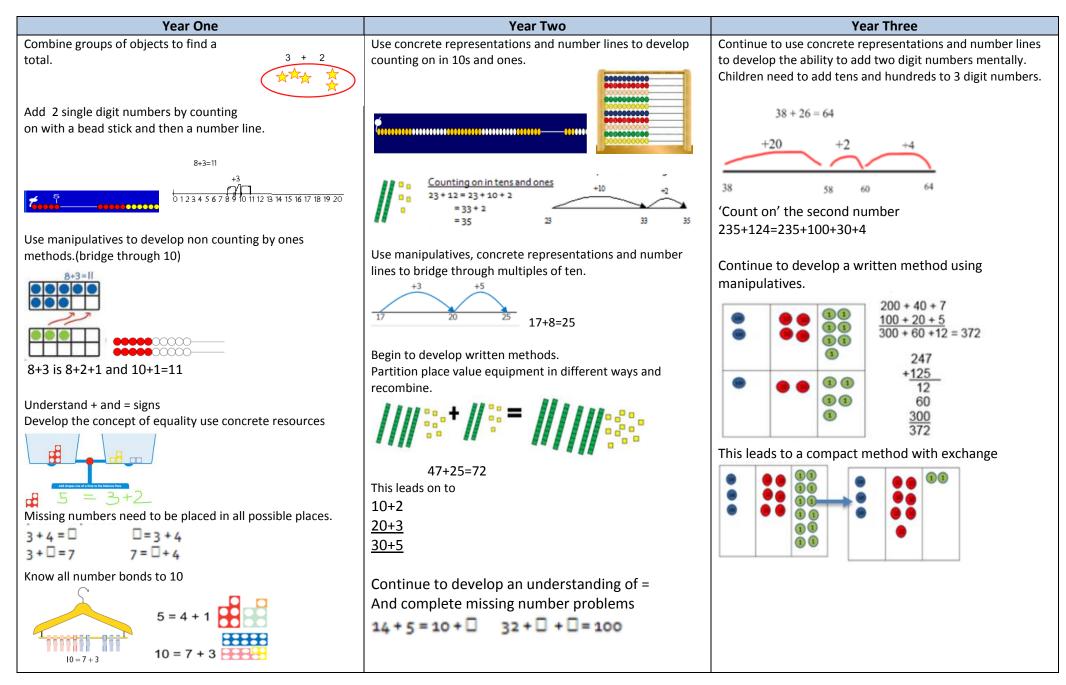
Lyme CP Progression in Addition



Year 4	Year 5	Year 6
Missing number/digit problems: <u>Mental methods</u> should continue to develop, supported by a range of models and images, including the number line. The bar model should continue to be used to help with problem solving. Children should make decisions about which is the most efficient method when calculating. <u>Written methods (progressing to 4-digits)</u> Expanded column addition modelled with place value counters, progressing to calculations with 4-digit numbers. $\underbrace{\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	Year 5Missing number/digit problems:Mental methodsshould continue to develop, supported by arange of models and images, including the number line. Thebar model should continue to be used to help with problemsolving. Children should practise with increasingly largenumbers to aid fluency e.g. 12462 + 2300 = 14762Continue to make decisions about which is the mostefficient methods (progressing to more than 4-digits)As year 4, progressing when understanding of the expandedmethod is secure, children will move on to the formalcolumnar method for whole numbers and decimal numbersas an efficient written algorithm.172.83+ 54.68227.5111Place value counters can be used alongside the columnarmethod to develop understanding of addition with decimalnumbers.	Year 6 Missing number/digit problems: <u>Mental methods</u> should continue to develop, supported by a range of models and images, including the number line. The bar model should continue to be used to help with problem solving. Continue to make decisions about which is the most efficient method when calculating. <u>Written methods</u> As year 5, progressing to larger numbers, aiming for both conceptual understanding and procedural fluency with columnar method to be secured. Continue calculating with decimals, including those with different numbers of decimal places <u>Problem Solving</u> Teachers should ensure that pupils have the opportunity to apply their knowledge in a variety of contexts and problems (exploring cross curricular links) to deepen their understanding.
Children should be able to make the choice of reverting to expanded methods if experiencing any difficulty. Extend to up to two places of decimals (same number of decimals places) and adding several numbers (with		
different numbers of digits). 72.8 <u>+ 54.6</u> <u>127.4</u> 1 1		