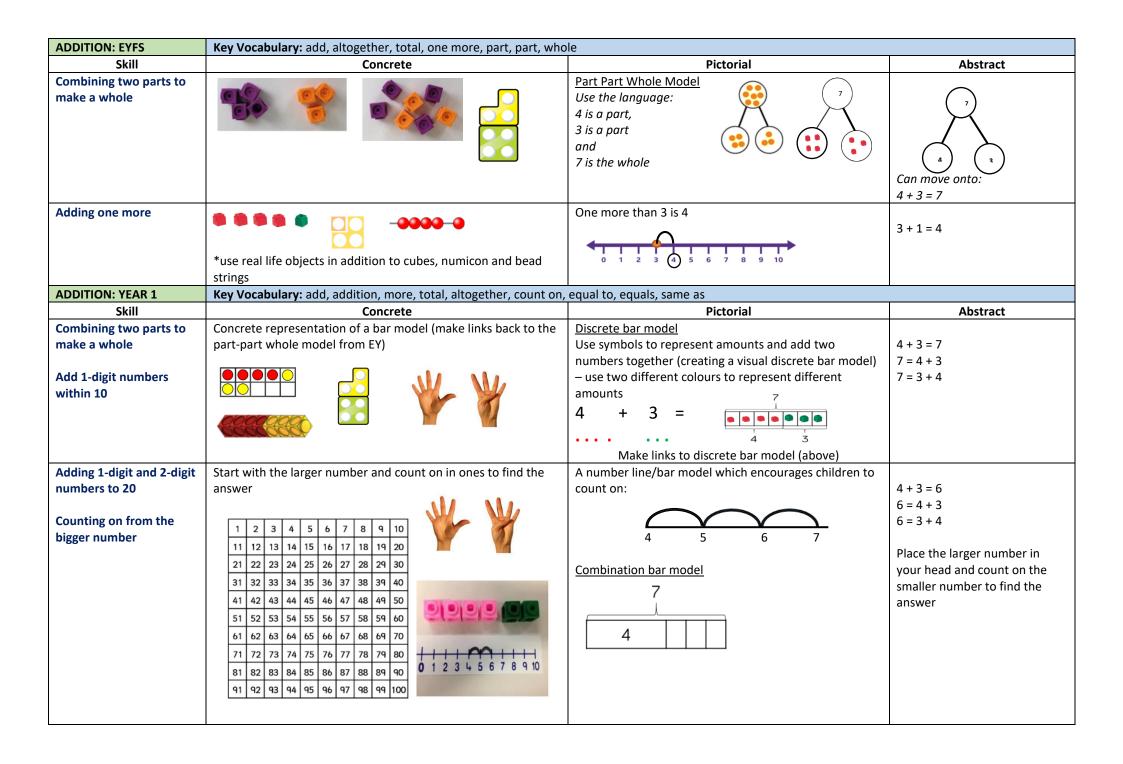


## **Addition Calculation Policy**

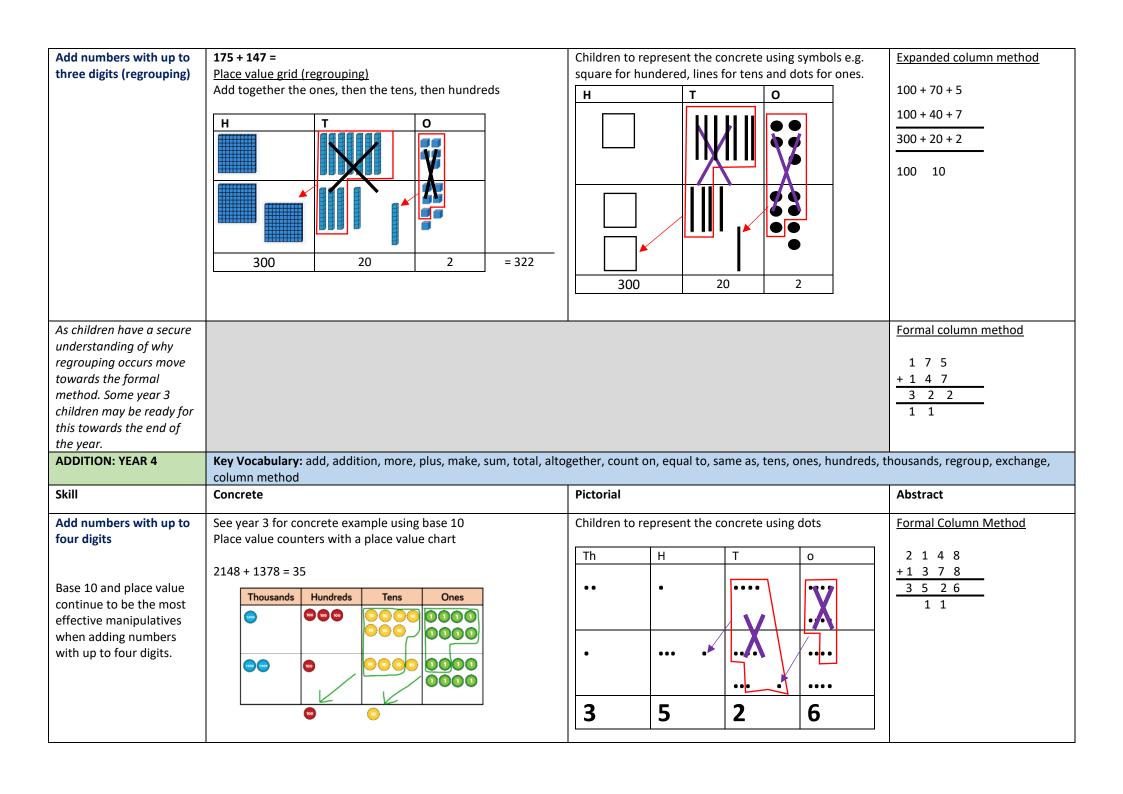




## Key Vocabulary: add, addition, more, plus, make, sum, total, altogether, equal to, same as, part part whole, count on, partition, regroup, **ADDITION YEAR 2** exchange, columns, tens, ones Use diens/number line – "stop and swap" Draw a number line to support the calculation Adding 1-digit numbers that cross 10 8 + 7 = 158 + 7 = 8 + 2 = 108 + 710 + 5 = 158 + 7 = 15When adding one digit numbers that cross 10, it + 2 +1 +1 +1 +1 +1 is important to highlight the importance of ten ones equalling one ten. 10 11 12 13 14 15 Different manipulatives can be used to represent Leading to: this exchange +2 +5 Use concrete resources alongside number lines to support children in 10 15 understanding how to partition their jumps. **Adding 2-digit numbers** 38 + 5Children to represent the concrete using symbols e.g. and ones dots for ones and lines for tens. 38 + 5 = 38 + 2 = 40When adding single digits 38 5 = 38 40 + 3 = 43to a two-digit number, children should be taught to count on from the larger number. They should also apply their knowledge of number bonds to add Use the blank number line and bridging 10 method more efficiently. +2 +3 Continue to reinforce the importance of ten ones equalling one 38 ten using manipulatives to represent the exhange. \*for those who require, second jumps can be in ones

Adding 2-digit numbers	36 + 20	Children to represent the concrete using symbols e.g.	36 + 20
and tens		dots for ones and lines for tens.	30 + 20 = 50
		50 5	50 + 6 = 56
	Teach children to count the tens and then the ones Make explicit that the ones digit does not change		
Add two 2-digit numbers	32 + 24	Count on from the largest number and partition the	
(USING PARTITIONING)		smaller number  +10 +10 +1 +1 +1 +1  32 42 52 53 54 55 56	32 + 24 = 32 + 10 + 10 = 52 52 + 1 + 1 + 1 + 1 = 56
		Leading to: +10 +10 +4  32 42 52 56	32 + 24 = 32 + 10 +10 = 52 52 + 4 = 56
		Leading to: +20 +4 52 56	32 + 24 = 32 + 20 = 52 52 + 4 = 56
		*demonstrate bridging 10 strategy where appropriate e.g. 46 + 37 +30 +4 +3 46 76 80 83	46 + 30 = 76 76 + 4 = 80 80 + 3 = 83

3+6+7=16	Children to represent the concrete using symbols e.g. dots for ones and lines for tens.  3 + 6 + 7	7 + 6 + 3 = 16 10
	36+9	36 + 9 =
	+10 36 45 46	36 + 10 = 46 46 - 1 = 45
	gether, count on, equal to, same as, tens, ones, hundreds, r	egroup, exchange, expanded
Concrete	Pictorial	Abstract
Place value grid (no regrouping) Add together the ones, then the tens, then hundreds  H T O	Children to represent the concrete using symbols e.g. square for hundered, lines for tens and dots for ones.  H T O	Expanded column method  100 + 20 + 5  40 + 3
		100 + 60 + 8 = 168
100 60 8 = 168	100 60 8 = 16	
	Key Vocabulary: add, addition, more, plus, make, sum, total, alto method, column method  Concrete  125 + 43  Place value grid (no regrouping)  Add together the ones, then the tens, then hundreds  H  T  O	key Vocabulary: add, addition, more, plus, make, sum, total, altogether, count on, equal to, same as, tens, ones, hundreds, method, column method  Concrete  Pictorial  Children to represent the concrete using symbols e.g. square for hundered, lines for tens and dots for ones.  Add together the ones, then the tens, then hundreds  H  T  O  H  T  O  H  T  O  O  O  O  O  O  O  O  O  O  O  O



ADDITION: YEAR 5/6	<b>Key Vocabulary:</b> add, addition, more, plus, make, sum, total, altogether, count on, equal to, same as, tens, ones, hundreds, thousands, ten thousands hundred thousands, millions, tenths, hundredths, thousandths, decimal point, decimal place				
Skill	Concrete	Pictorial	Abstract		
Add numbers with more than four digits Place value counters are the most effective concrete resource to use when adding numbers with more than 4 digits.  Add with up to 3 decimal places Place value counters on a place value grid are the most effective manipulatives when adding decimals. However, at this stage, children should be encouraged to work in the abstract.  Ensure children have experience of adding decimals with a variety of decimal places. This includes putting this into context when adding money and other measures.	As Year 4 'Add numbers with up to four digits'. Place value chart to include: HTh, TTh, Th, h, T, O At this stage, children should be encouraged to work in the abs:  3.65 + 2.41 = 6.06  Ones Tenths Hundredths  at a				
	00 00 00 00 00 00 00 00 00 00 00 00 00				
	10				