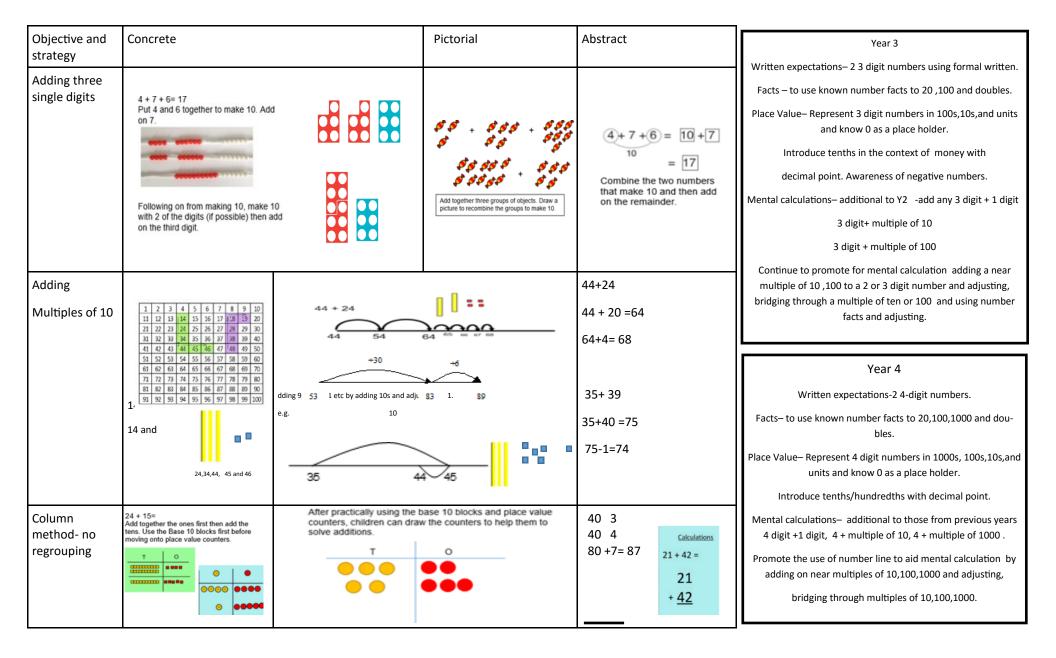
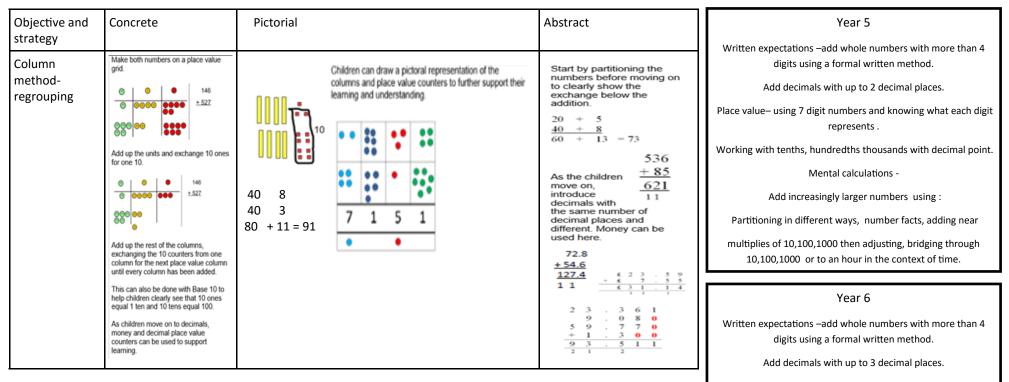
Progression in Addition leading to a written form

Year Group Expectations

[Mental strategies additional to Progression.]

Objective and strategy	Concrete	Pictorial	Abstract	Year 1
Combining two parts to make a whole: part- whole model	Image: Second system Image: Second system Image: Second	yer yer yer yer yer yer yer yer yer yer	5 + = 8 4 + 3 = 7 10 = 6 + 4 Use the part-part whole diagram as shown above to move into the abstract.	Fluency- to know addition number facts for all numbers up to 20 and related subtraction facts. Place value- Begin to represent 2 digit numbers in tens and units [teens] Mental calculations- Add 1 more and 1 less Children need to understand the equality sign so that the sign is not just interpreted as 'the answer' Use of number facts such as doubles- eg 6+7 = double 6 =12+1 Promote 6,7,8,and 9 as 5 + something through money, hands.
Starting at the bigger number and counting on	Start with the larger number on the bead string and then count on to the smaller number 1 by 1 to find the answer.	$12 + 5 = 17$ $\underbrace{4 + 5 = 17}_{10 \text{ tr}}$ Start at the larger number on the number line and count on in ones or in one jump to find the answer.	7+ = 20 5 + 12 = 17 Place the larger number in your head and count on the smaller number to find your answer.	Year 2 Fluency –to use known addition and related subtraction facts up to 20 to solve problems and relate to facts to 100. Place value– represent each 2 digit number in 10s and units. To know 0 as a place holder.
Regrouping to make 10.	6 + 5 = 11 Start with the bigger number and use the smaller number t make 10.	Use pictures or a number line. Regroup or partition the smaller number to make 10. 9 + 5 = 14	7 + 4= 11 If I am at seven, how many more do I need to make 10. How many more do I add on now?	Mental calculations– add any 2 digit and 1 digit. 2 digit + multiple of 10. 3 1-digit numbers. Some 2 digit to 2 digit numbers. Mental strategies to continue to promote even when moving to column expanded method. adding 9,11,19 and 21 by adding multiples of 10 and adjusting . Using doubles and number facts then adjusting eg 12+13 25+26





Place value– using 8 digit numbers and knowing what each digit represents .

Working with tenths, hundredths thousands with decimal point.

Mental calculations-

Add increasingly larger numbers and operations than involve mixed operations and brackets.

Add increasingly larger numbers using :

Partitioning in different ways, number facts, adding near

multiplies of 10,100,1000 then adjusting, bridging through 10,100,1000 or to an hour in the context of time.