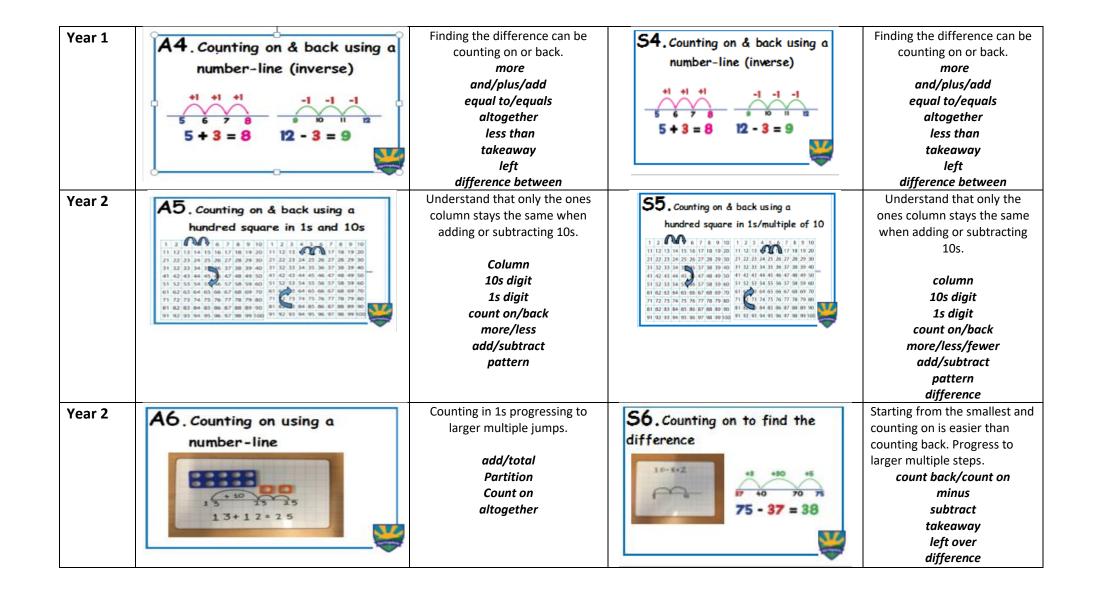
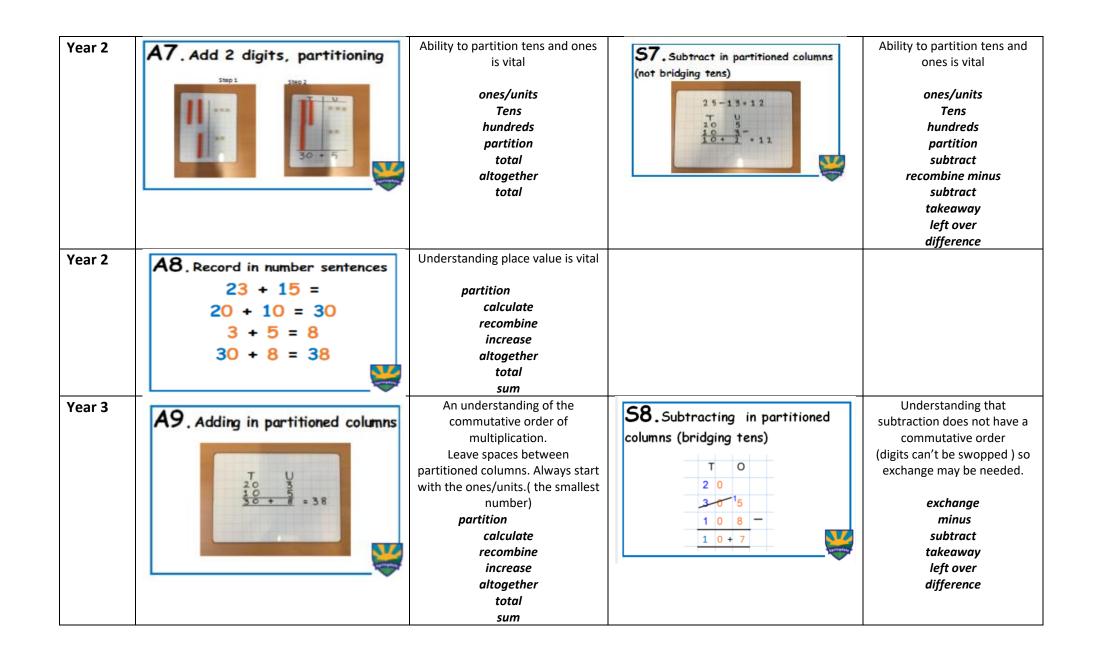
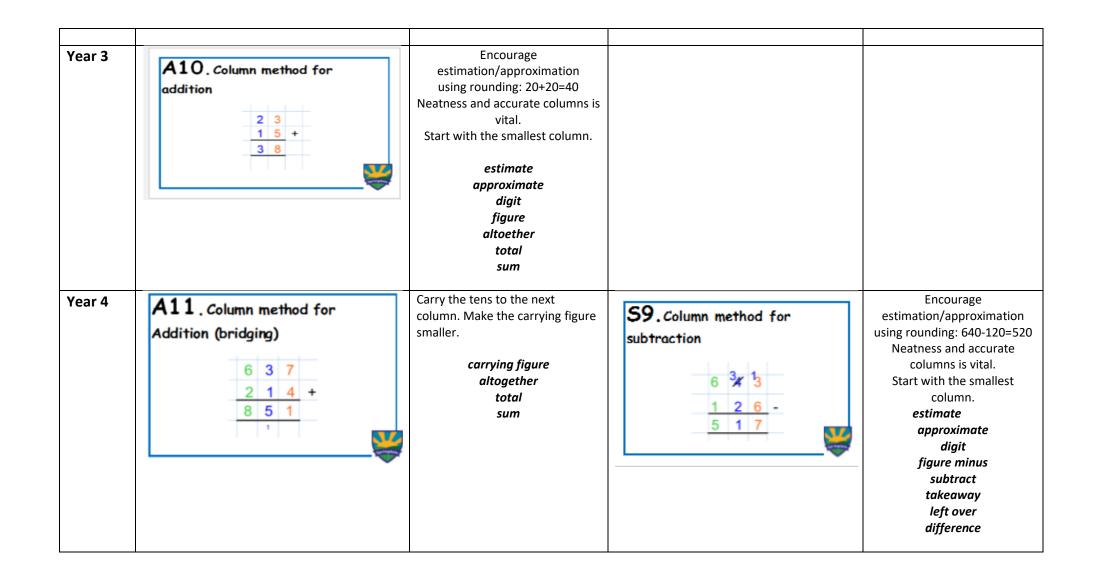


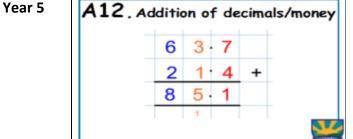
## Visual Learning Steps for Written Calculations: Addition and Subtraction

Expected By end of	ADDITION	Key Concepts and Vocab	SUBTRACTION	Key Concepts and Vocab
Year 1	A1. Counting Objects (concrete)  Step 1  Step 2	Recognising numbers and their values to 10. Counting in 1s  more and/plus/add equal to/equals altogether	\$1. Subtracting objects from a set (concrete)	Reocognising numbers and their values to 10.  less than takeaway left
Year 1	A2. Pictorial Representation  3 2 5	Recognising numbers as groups  more  and/plus/add  equal to/equals  altogether	<b>52.</b> Pictorial Representation  52. Pictorial Representation  52. Pictorial Representation	Recognising numbers as groups.  less than takeaway fewer left over
Year 1	A3. Using Numicon  Step 1 Step 2	Writing number sentences to match concrete representations. Addition results in a larger number  more and/plus/add equal to/equals altogether	S3.Using Numicon  Step 1 Step 2	Write number sentences to match concrete representation. Subtract is the same as takeway and results in a smaller number.  Less than subtract takeaway minus difference between



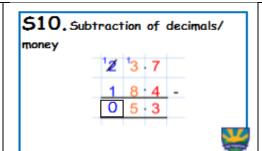






Ensure column values are correct.
Put decimal points in first. The
decimal point DOESN'T move.
Remember money has 2 decimal
places.

decimal point
decimal places
place holder
altogether
total
sum
more
greater



Ensure column values are correct. Put decimal points in first. The decimal point DOESN'T move.

Remember money has 2 decimal places.

decimal places.

decimal places
place holder
minus
subtract
takeaway
left over
difference

Year 3/4/5.

A13. Addition of fractions

$$\frac{1}{4} + \frac{1}{4} = \frac{1+1}{4} = \frac{2}{4}$$



Only add the numerators, the denominators MUST be the same.

By Year 5:

To include finding common denominators, mixed fractions and lowest/simpliest form

fraction
numerator
denominator
lowest common multiple
common denominator
simplest/lowest form

\$11. Subtraction of fractions

$$\frac{3}{4} - \frac{1}{4} = \frac{3-1}{4} = \frac{2}{4}$$



Only subtract the numerators, the denominators MUST be the same.

Year 5

To include finding common denominators, mixed fractions and lowest/simpliest form.

fraction
numerator
denominator
lowest common multiple
common denominator
simplest/lowest form