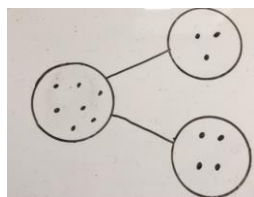
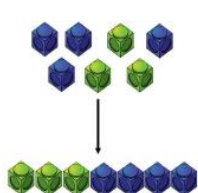


Calculation Policy - Addition

EYFS/Year 1:

Children are taught that addition is the combining of two or more amounts. They use concrete objects to solve simple additions. Children are then taught to start at the bigger number and count on. Children then move on to regrouping to make 10. Children begin to use number sentences to represent additions such as: $3 + 4 = 7$



Year 2:

Children move on to use Base 10 to support their developing understanding of addition. They use Base 10 to combine two numbers and can begin to add three single digits.

$$11 + 5 = 16$$

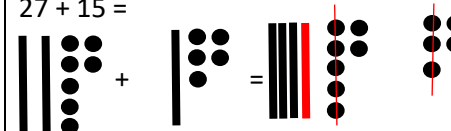
11 cubes are lined up (1 ten and 1 unit/one).
5 cubes are added to the line of 11 giving a total of 16.



Year 3:

Children continue to use Base 10 to support their calculations, including exchanging 10 ones for 1 ten when the total of the ones is 10 or more. Children will record their own drawings of Base 10 using lines for rods of 10 and dots for ones.

$$27 + 15 =$$



Children also use number lines and partitioning to record their thinking.

Year 4:

Children start to use regrouping to support their mental maths skills of adding three or more numbers.

$$13 + 4 + 7 =$$

$$13 + 7 = 20 + 4 = 24$$

Children start to use formal written methods to solve additions using column method.

Written method

Step 1	Step 2	Step 3
$\begin{array}{r} \text{T U} \\ 65 \\ + 27 \\ \hline \end{array}$	$\begin{array}{r} \text{T U} \\ 65 \\ + 27 \\ \hline 2 \end{array}$	$\begin{array}{r} \text{T U} \\ 65 \\ + 27 \\ \hline 92 \end{array}$

Year 5:

Children use column method to add numbers with more than 3 digits. They use this method to add monetary amounts and decimals. Children use their place value knowledge to understand the value of each digit in each column.

$$\begin{array}{r} \text{HTU} \\ 625 \\ + 48 \\ \hline 673 \\ 1 \end{array}$$

$$\begin{array}{r} 367 \\ + 85 \\ \hline 452 \\ 11 \end{array}$$

$$\begin{array}{r} 321 \\ + 7 \\ + 48 \\ \hline 376 \\ 1 \end{array}$$

$$\begin{array}{r} \text{£}3.48 \\ + \text{£}0.78 \\ \hline \text{£}4.26 \\ 11 \end{array}$$

Year 6:

Children continue to use both formal and abstract methods to solve additions of more than 3 digits.

$$\begin{array}{r} 243 \\ + 368 \\ \hline 611 \\ 11 \end{array}$$