

Calculation Policy adapted from White Rose Maths HubProgression in Calculations – supported with a rich use of vocabulary and discussion throughout using 'stem sentences'

## Calculation policy: Addition

Key language: sum, total, parts and wholes, plus, add, altogether, more, 'is equal to' 'is the same as'.

Concrete/ Build it	Pictorial / Draw it	Abstract/ Write it/ Say it
Combining two parts to make a whole (use other resources too e.g. eggs, shells, teddy bears, cars).	Children to represent the cubes using dots or crosses. They could put each part on a part whole model too.	4 + 3 = 7 Say it: Four is a part, three is a part and seven is the whole.



6 + 5 = 5 + 🗆

6 + 5 = 🗆 + 4

totals on each side.

Say it: The equals sign balances the



6+5





## Conceptual variation; different ways to ask children to solve 21 + 34

	Word problems: In year 3, there are 21 children and in year 4, there are 34 children. How many children in total?	21 <u>+34</u>	
$\mathbf{X}$	21 + 34 = 55. Prove it	21 + 34 =	
$\Delta$		= 21 + 34	Missing digit problems:
$\begin{pmatrix} 24 \end{pmatrix} \begin{pmatrix} 3^3 4 \end{pmatrix}$		Calculate the sum of twenty-one	10s 1s
		and thirty-four.	
21 34			? 5