

The Discovery School Calculation Policy - Year 4 Addition



Additional Notes

Bar models must be used as a tool for problem solving as this ensures the children understand the structure of the problem.

National Curriculum Objectives

add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. Estimate and use inverse operations to check answers to a calculation. Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

Objective	Concrete	Pictorial	Abstract
4 digits add 3 digits (no regroup)	$2521 + 434 = 2955$ 	$2521 + 434 = 2955$ Children may choose to represent as a bar model or part-part whole first. Questions could also be presented in this way.	
4 digits add 3 digits (with regroup)	$3252 + 718 = 3970$ 	$3252 + 718 = 3970$ Children MUST put an x through each counter to show that they are exchanging them. The arrow shows that this counter has moved from one column to another. Children must draw the arrow! Ensure children use a ruler to separate their grid.	
4 digits add 4 digits (with 3 regroups) This would need to be built up to.	$5684 + 1567 = 7251$ 	$5684 + 1567 = 7251$ It is not expected that all children will need to work through this step as most will just skip to pictorial or abstract. This will support conceptual understanding.	 This will demonstrate the abstract clearly.