

The Discovery School Calculation Policy - Year 4 Subtraction

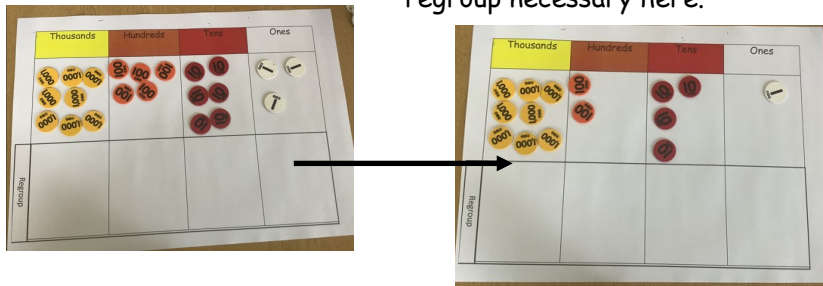
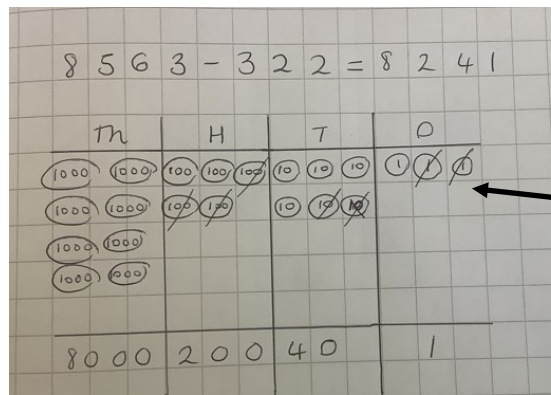
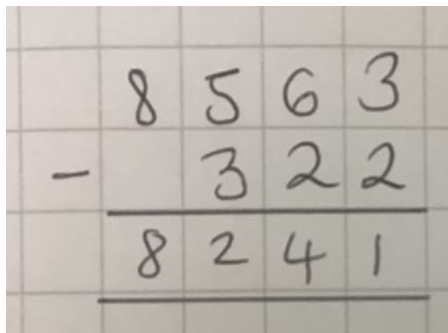
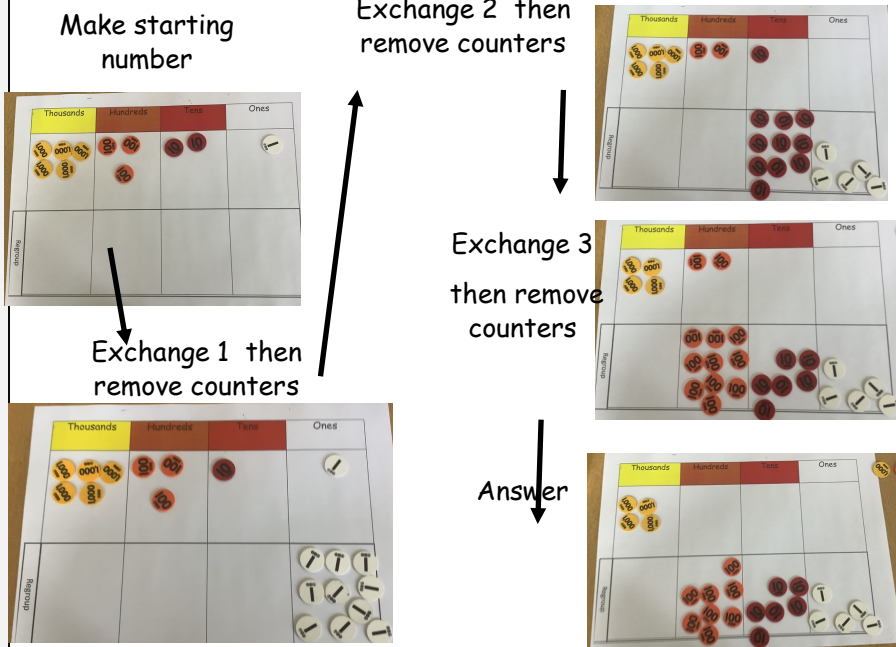
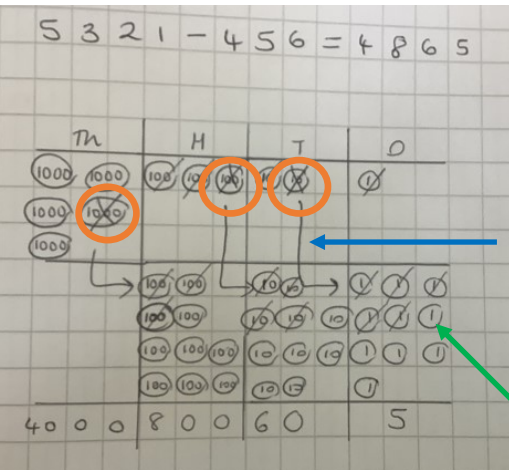
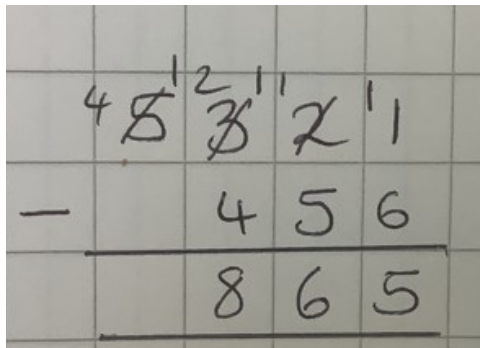


Additional Notes

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—3 digits (no regroup)	<p>8563 - 322 =</p> <p>Use the regroup grids as this will show there is no regroup necessary here.</p>  <p>Children need to physically remove the counters from the board.</p>	 <p>Ensure children put a diagonal line through each counter to show that a subtraction has happened (/) not an x as an x is used when there has been an exchange.</p>	 <p>Example question: The mass of a bag of sand is 3,576 g. 1,250 g of sand is poured from the bag. What is the mass of the bag of sand now?</p>				
4 digits—3 digits (with regroup)	<p>5321 - 456 =</p> <p>Make starting number</p> <p>Exchange 2 then remove counters</p> <p>Exchange 3 then remove counters</p> <p>Answer</p> 	 <p>Ensure that an x is used to show that an exchange has happened.</p> <p>An arrow must be drawn to show the movement of the counter.</p> <p>A diagonal line (/) should show that a counter has been subtracted.</p>	 <p>Example question: Mr Jones paid £8,562 for his car. Mrs Smith paid £6,729 for her car. How much more did Mr Jones pay for his car than Mrs Smith paid for hers?</p> <p>A shop has 8,435 magazines. It sells 367 in the morning and 579 in the afternoon. How many magazines are left?</p> <table><tr><td colspan="2">8,435</td></tr><tr><td>367</td><td>579</td></tr></table> <p>Explain how you found the answer. Is there more than one way to solve this problem?</p>	8,435		367	579
8,435							
367	579						
NOTE	Ensure you are covering multiples of 1000.		