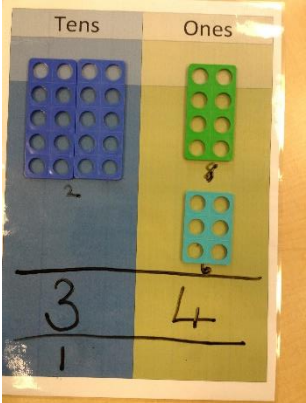


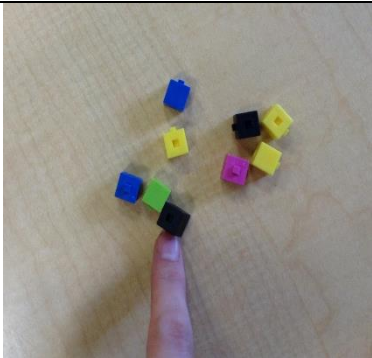

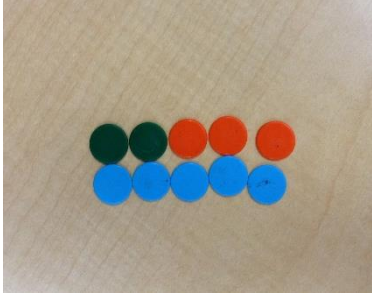
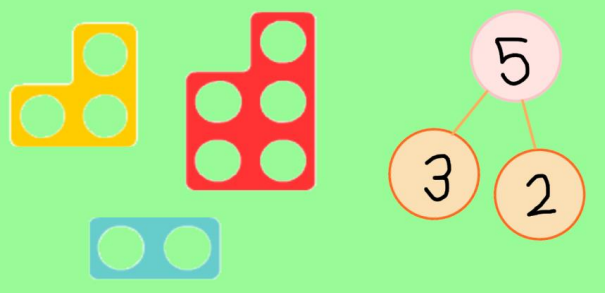

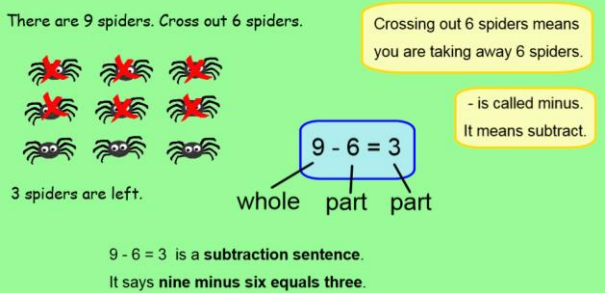


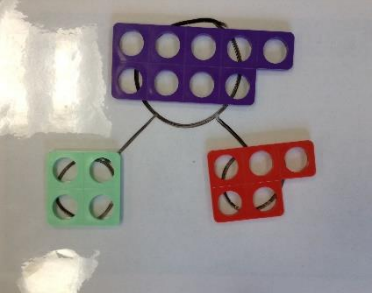
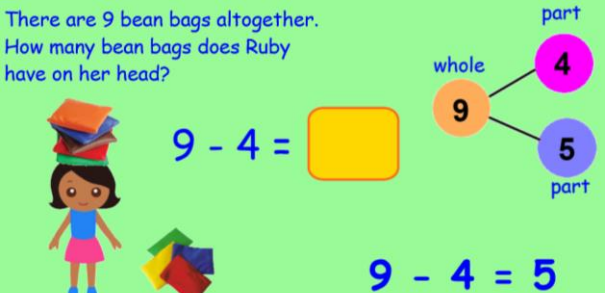
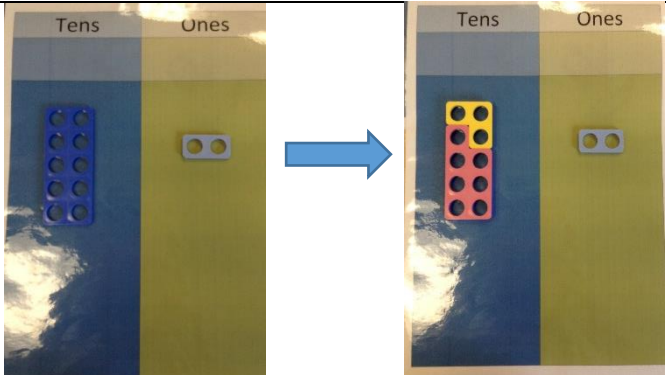
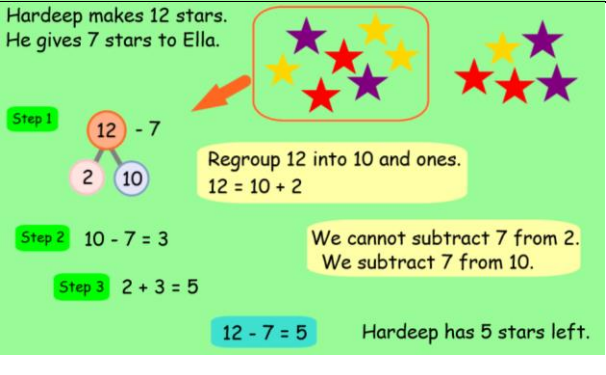
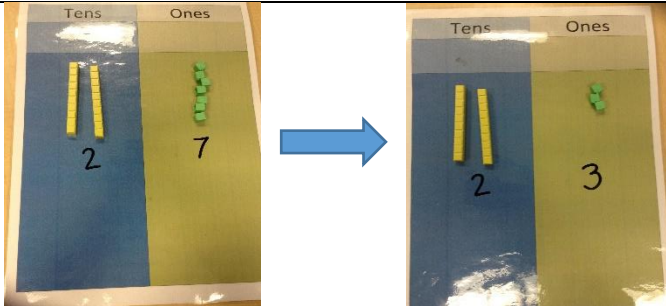
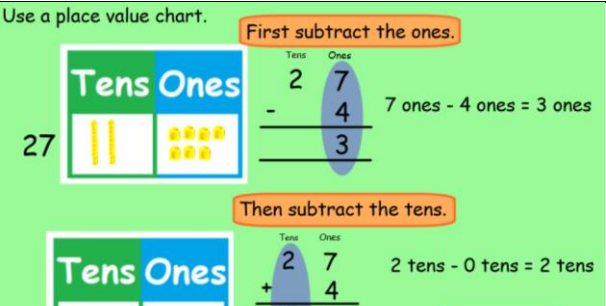
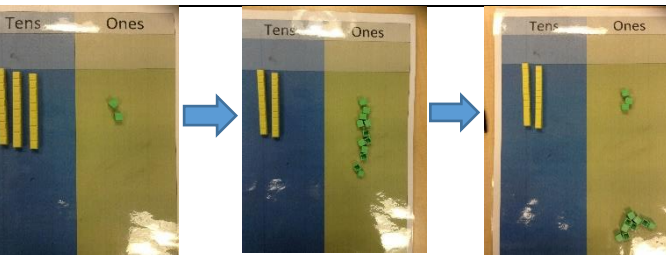
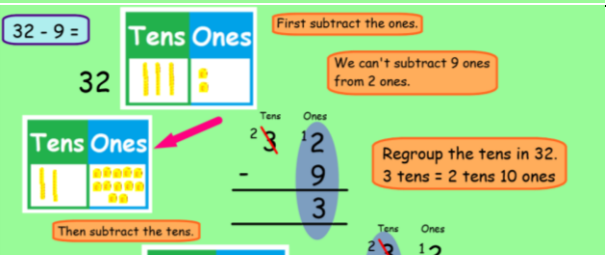
First Base - Calculation Policy

First Base teaching of addition and subtraction is based on Concrete-Pictorial-Abstract (CPA) modelling. The foundations for beginning to add and subtract are rooted in a secure understanding of number, counting and number bonds. We use a wide variety of manipulatives at the concrete stage to allow pupils to construct their own cognitive models for abstract mathematical ideas and processes. At the abstract stage pupils thinking is extended, allowing them to apply their learnt skills to contextual problem solving.

This policy is a working document and will be revised and amended as necessary.

Addition			
Objective	Concrete		Pictorial
Counting to 10			
Making number bonds			
Counting on			
Part-part whole			
Making 10			
Regrouping into tens and ones			
Simple column			

Column with regrouping ones		<p>Use a place value chart.</p> <div> <div> <div>Tens</div> <div>Ones</div> <div>28</div> <div>6</div> </div> <div> <div>Tens</div> <div>Ones</div> <div>2</div> <div>8</div> </div> </div> <p>First add the ones.</p> <div> <div> <div>Tens</div> <div>Ones</div> <div>2</div> <div>8</div> </div> <div> <div>+</div> <div>6</div> </div> <div> <div>1</div> <div>4</div> </div> </div> <p>8 ones + 6 ones = 14 ones</p> <p>Then add the tens.</p> <div> <div> <div>Tens</div> <div>Ones</div> <div>2</div> <div>8</div> </div> <div> <div>+</div> <div>6</div> </div> <div> <div>3</div> <div>4</div> </div> </div> <p>2 tens + 1 ten = 3 tens</p> <p>28+6=34</p>	<p>$28 + 6 =$</p> <p>There are 28 seats in the cinema. There are 6 extra spaces for wheelchairs. How many people can watch the film?</p>
Column addition to 1000, with regrouping ones		<p>$268 + 114 = \underline{\quad}$</p> <p>First add the ones. Then add the tens. Finally add the hundreds.</p> <div> <div>H</div> <div>T</div> <div>O</div> <div>+</div> </div> <div> <div>Hundreds</div> <div>Tens</div> <div>Ones</div> </div>	<p>$268 + 114 =$</p> <p>There are 268 sweets in a jar, the shop keeper puts 114 more sweets in. How many sweets are in the jar now?</p>
Column addition to 1000, with regrouping tens		<p>$367 + 152 = \underline{\quad}$</p> <p>First add the ones. Then add the tens. Finally add the hundreds.</p> <div> <div>H</div> <div>T</div> <div>O</div> <div>+</div> </div> <div> <div>Hundreds</div> <div>Tens</div> <div>Ones</div> </div>	<p>$367 + 152 =$</p> <p>367 children went to Legoland on Monday. On Tuesday 152 more children went than on Monday. How many children went to Legoland on Tuesday?</p>

Subtraction			
Objective	Concrete		Pictorial
Counting to 10			
Making number bonds			
Taking away			
Counting back			
Number bonds			
Regrouping into tens and ones			
Simple column subtraction			
Regroup the tens			
Column subtraction to 1000, with			

regrouping ones			
Column subtraction to 1000, with regrouping tens			

Date reviewed: September 2023

Reviewed by: Stacey Laws