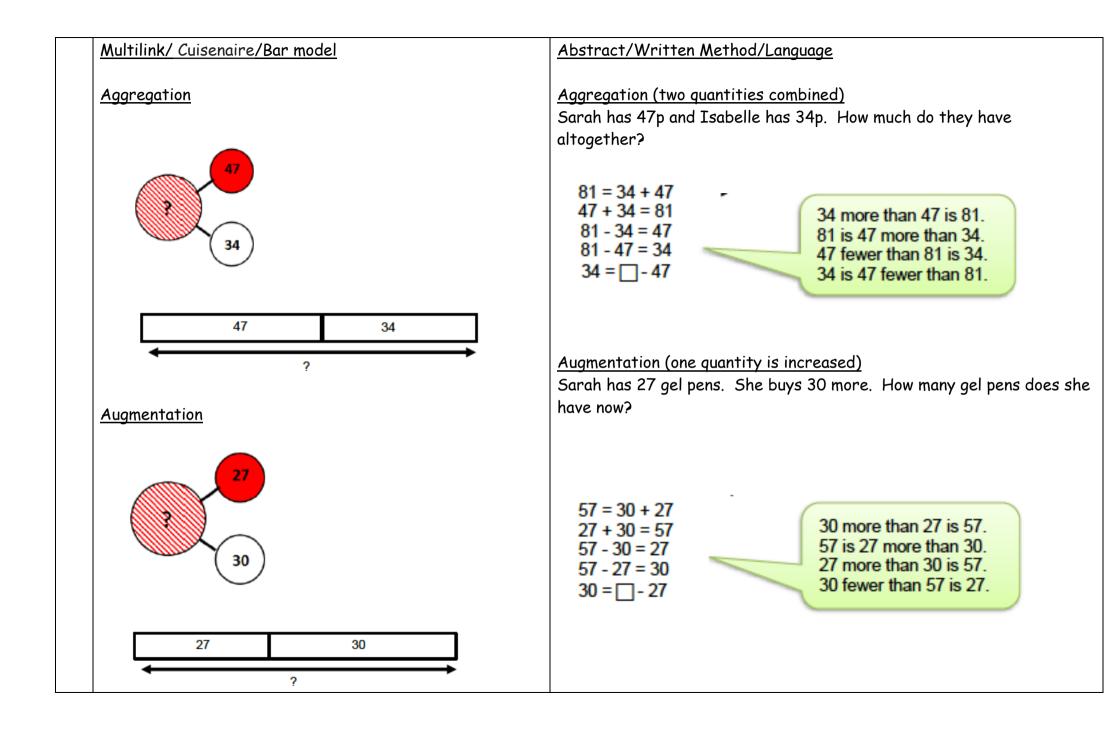
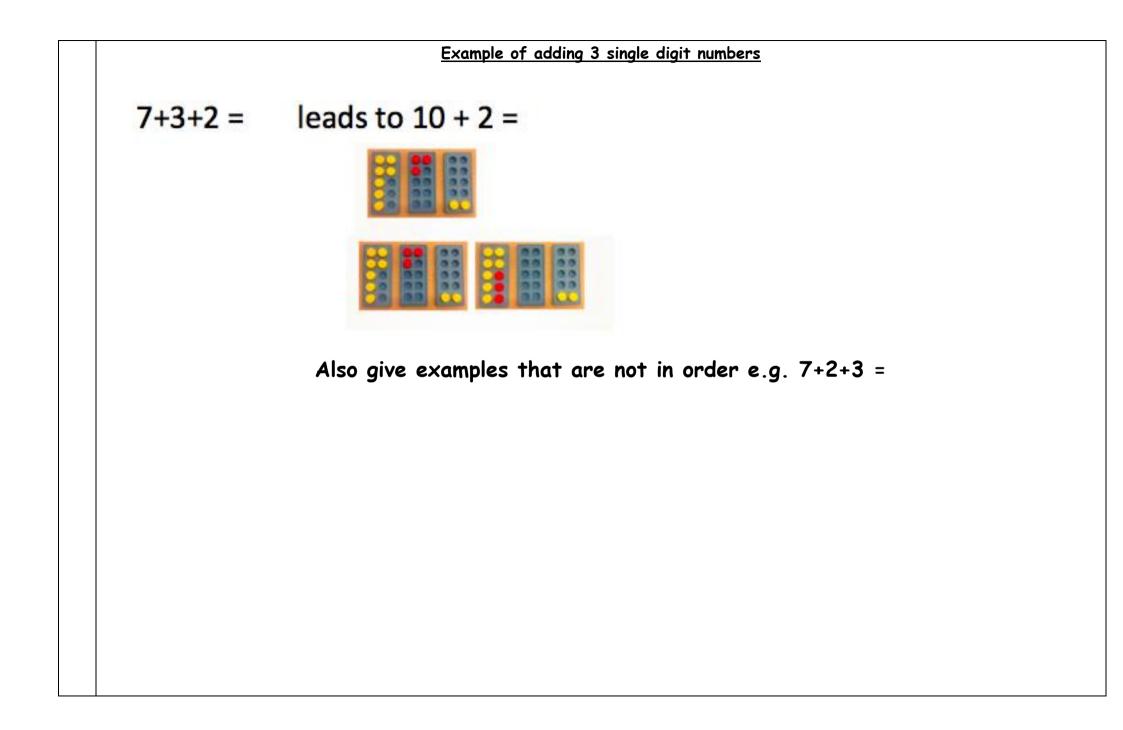
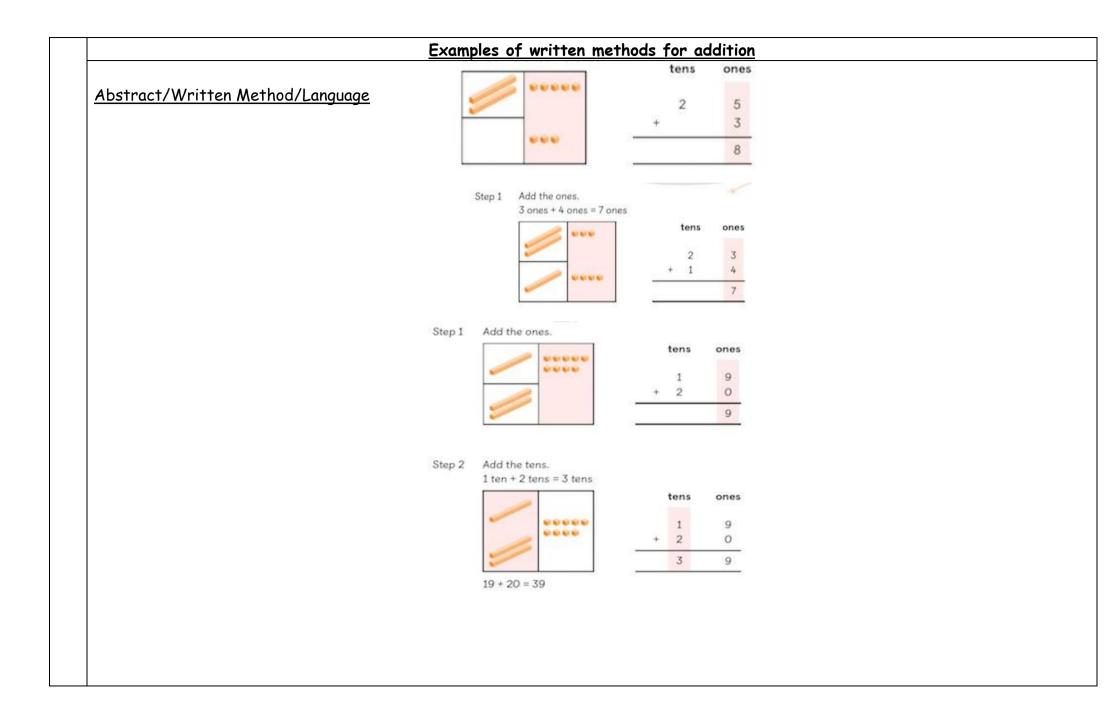


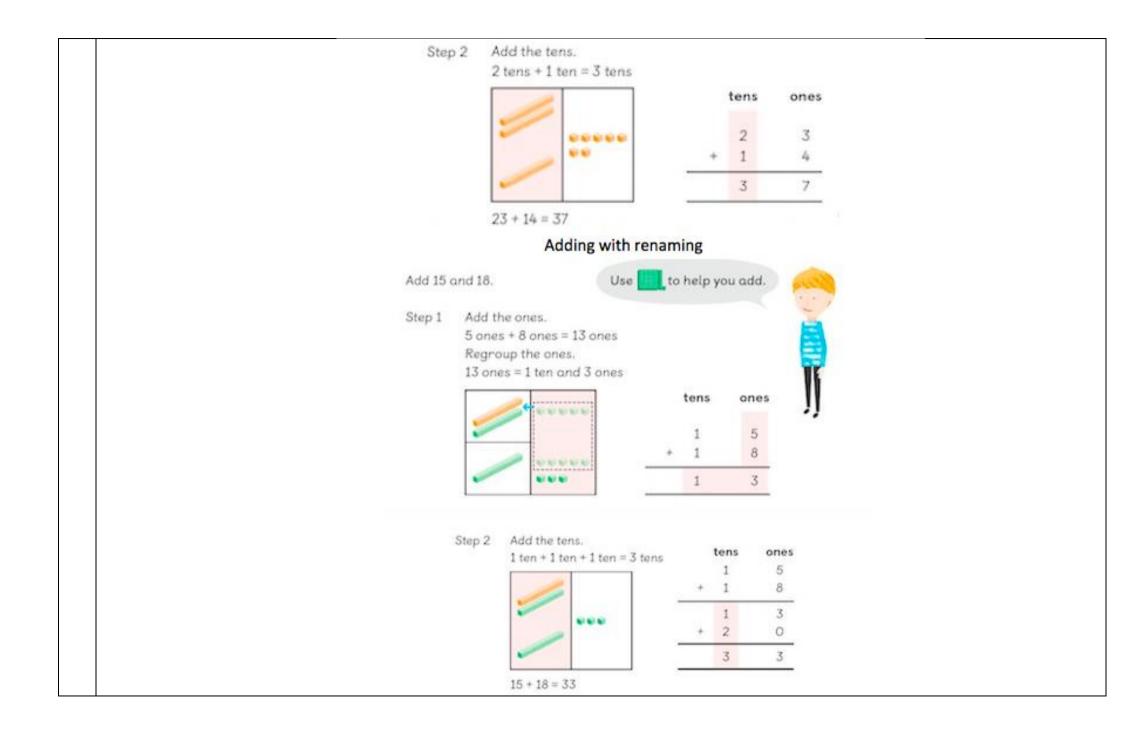
Year 2 Calculation and Bar Modelling Policy

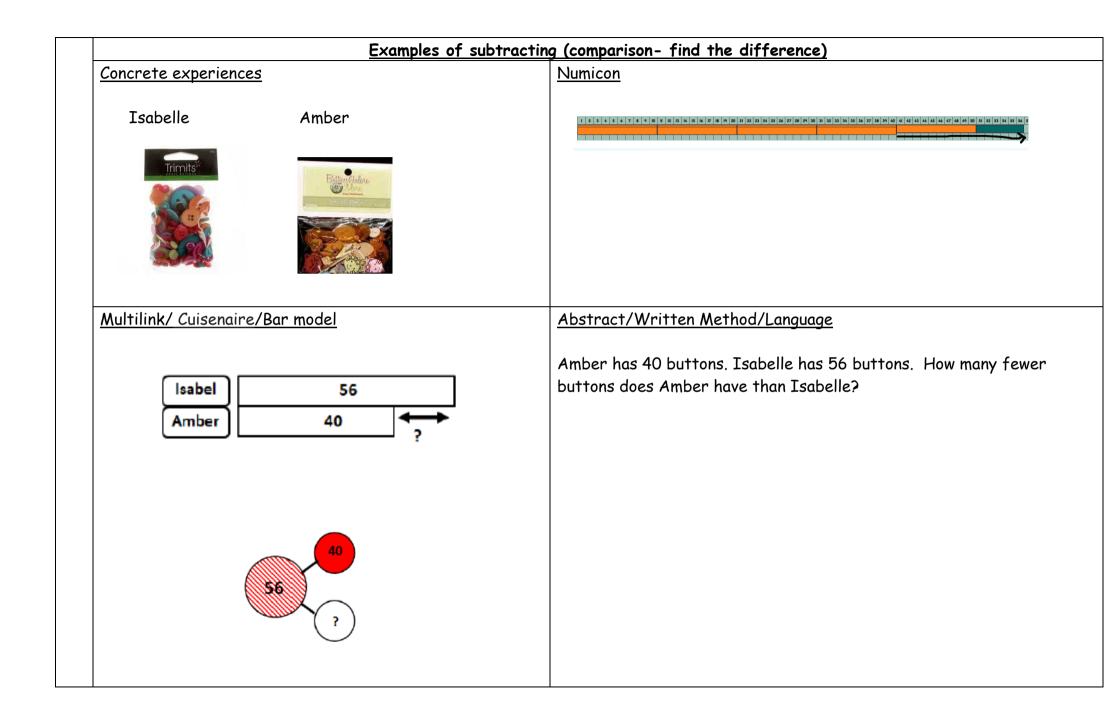
	Ad	ditive Reasoning			
	ELO: To add and subtract	¢			
	MI: Solve one-step problems with addition and subtraction:				
	 Using concrete objects and pictorial representations including those involving numbers, quantities and measures. 				
	• Using the addition (+), subtraction (-) and equals (=) signs.				
	 Applying their increasing knowledge of mental and written methods. 				
	MI: Represent and use number bonds and related subtraction facts to 20				
	MI: Add and subtract numbers using concrete objects and pictorial representations and m	nentally, including:			
	 One-digit and two-digit numbers to 20, including zero 	·· 5			
	 A two-digit number and ones 				
	 A two-digit number and tens 				
	Two two-digit numbers				
	 Adding three one-digit numbers 				
	MI: Show that addition of two numbers can be done in any order (commutative) and subtra	action of one number from another cannot.			
	ELO: To use algebra				
	MI: Solve addition and subtraction problems involving missing numbers				
	<u>Exa</u>	<u>mples of adding:</u>			
	<u>Concrete experiences</u>	Numicon			
	Aggregation	Augmentation			
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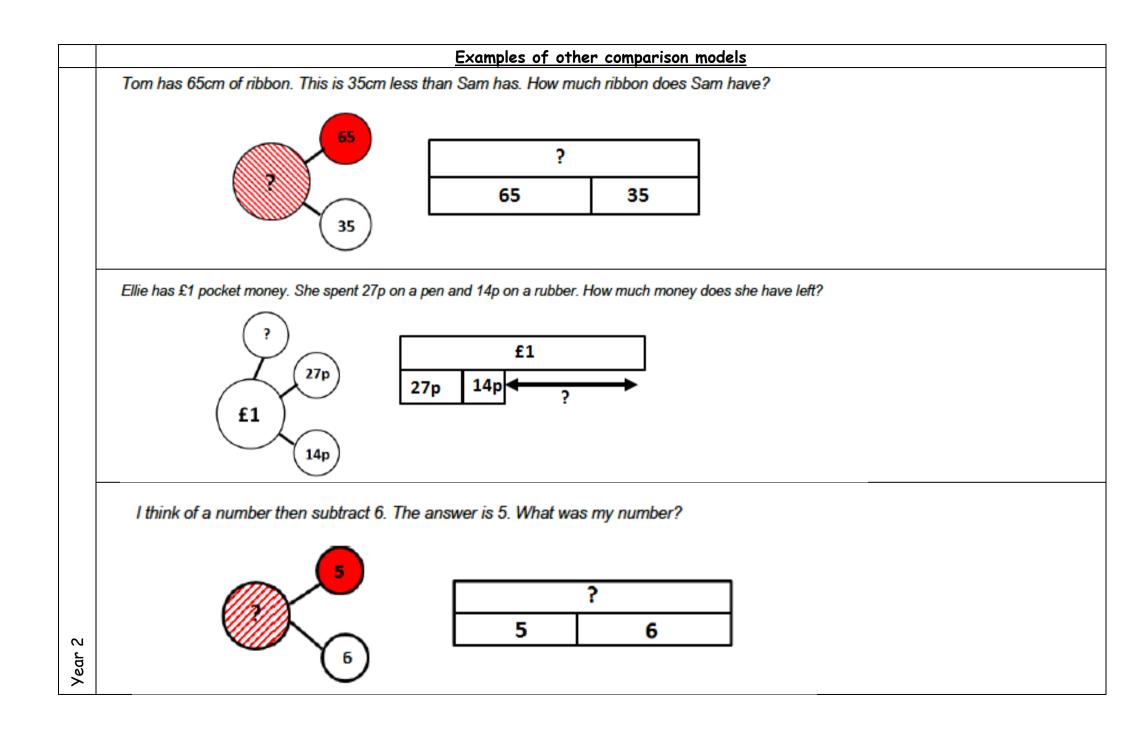


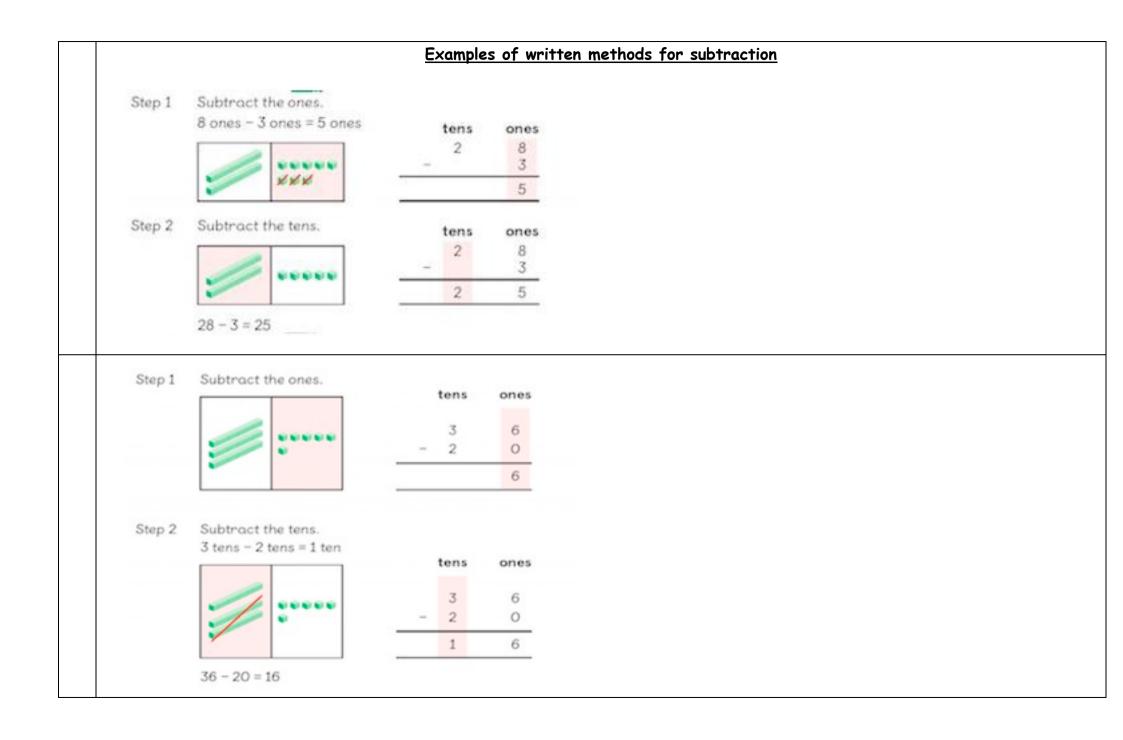


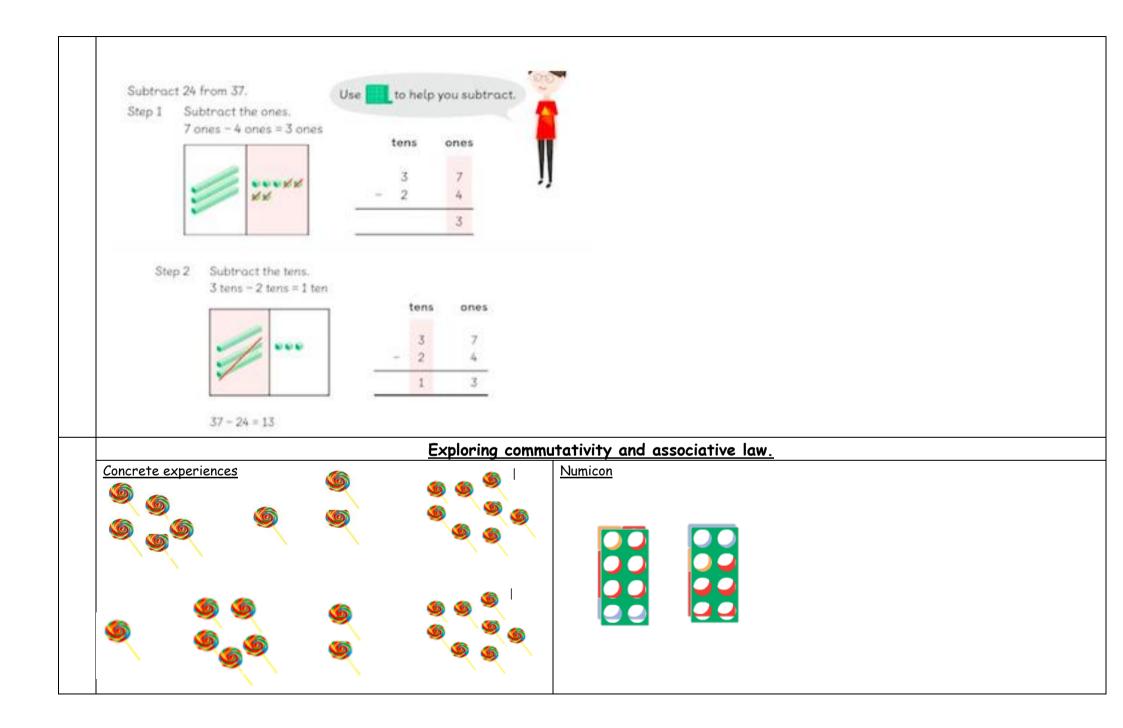






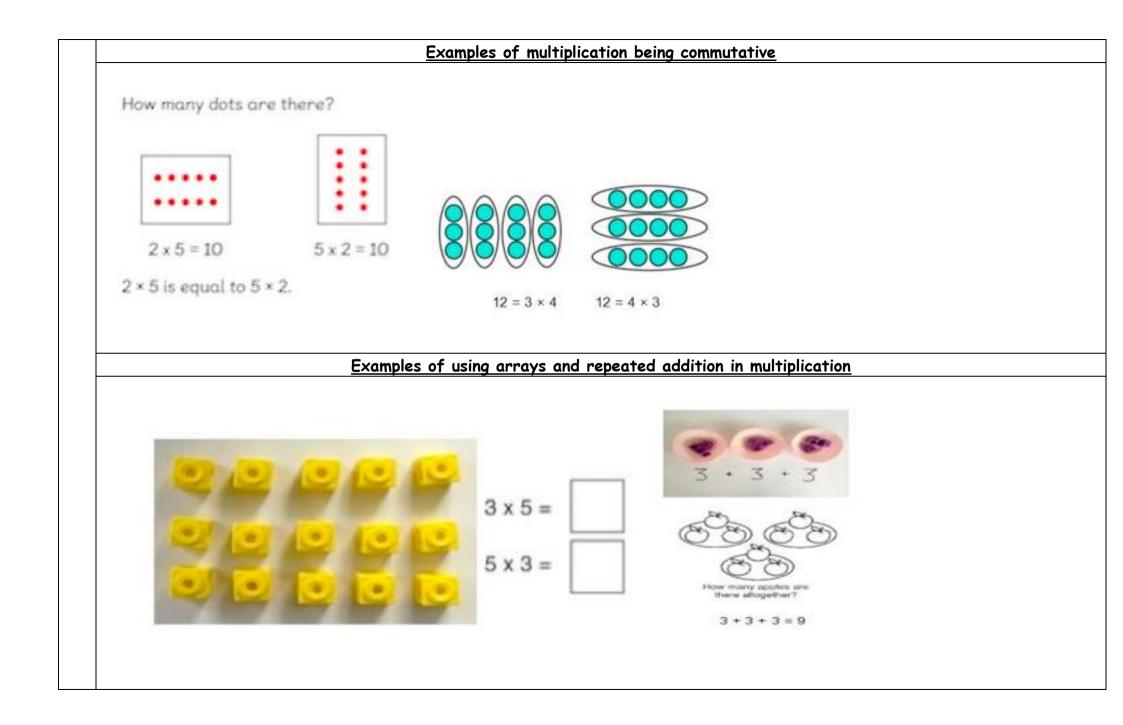


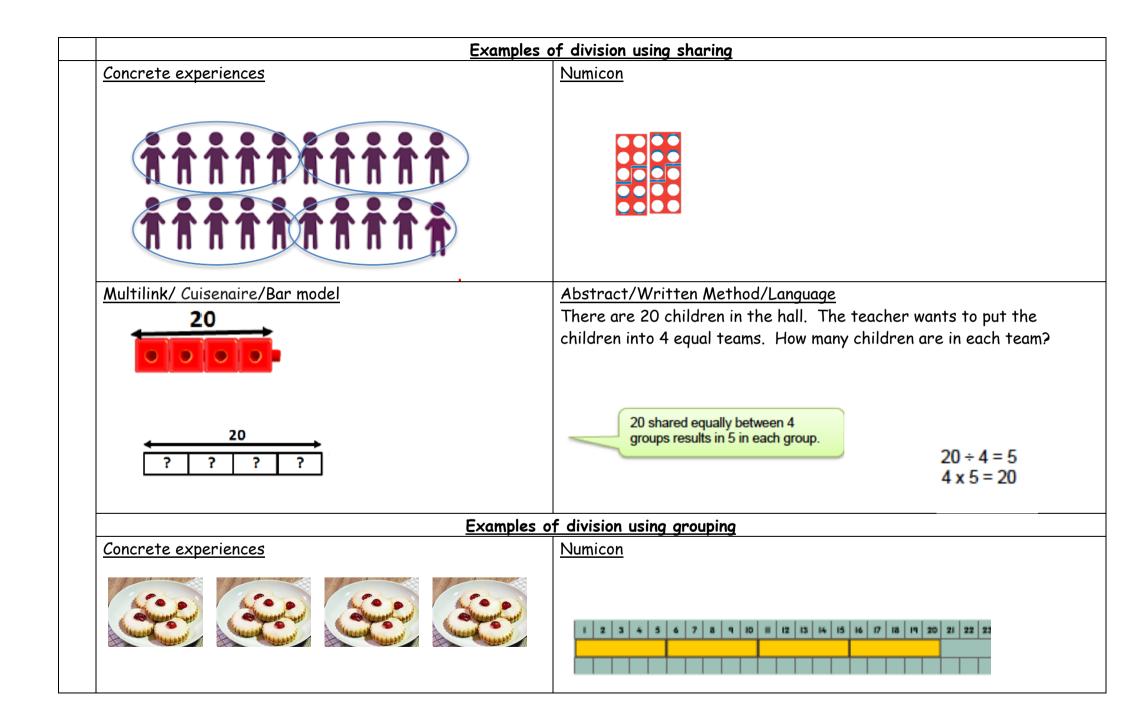


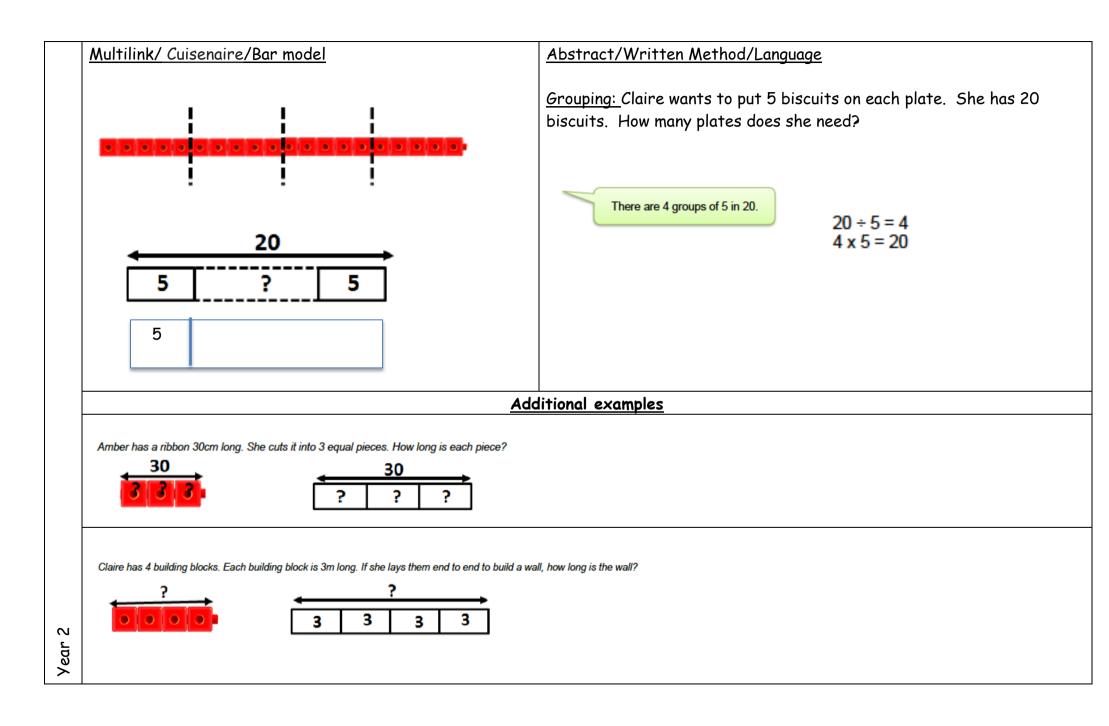


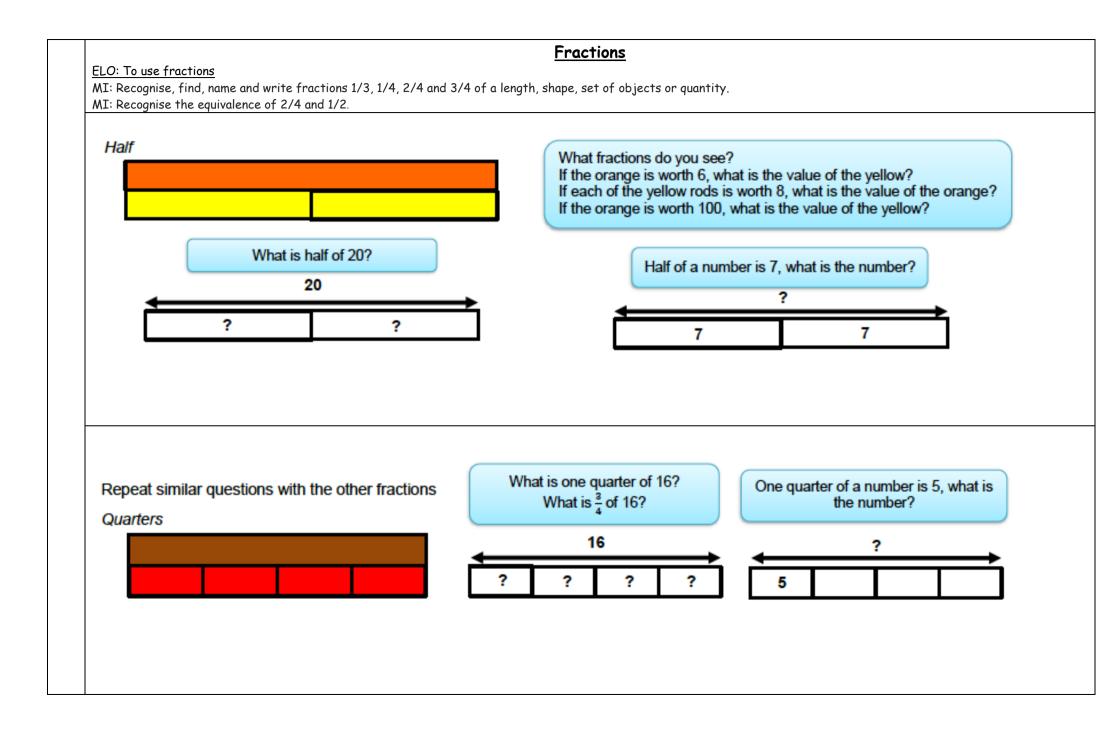
Multilink/ Cuisenaire/Bar model		Abstract/Written Method/Language
	5 2 1	5 + 2 + 1
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1 + 5 + 2
		1 + 2 + 5
	Examples of usi	ng the inverse to check calculations and find missing numbers.
	Multilink/ Cuisenaire/Bar model	Abstract/Written Method/Language
		Sally writes an answer to the calculation below.
		69-47=22
	69	What calculations can she do to check her answer?
	22 47	
		69 = 22 + 47 47 + 22 = 69 47 = 69 - 22 69 - 47 = 22 $22 = 69 - \square$

<u>Multiplicative Reasoning</u> ELO: To know and use numbers MI: Count in steps of 2, 5 and 10 from 0 or 1 and in tens from any number, forward and backward. <u>ELO: To multiply and divide</u> MI: Solve one-step (two-step at greater depth) problems involving multiplication and division. MI: Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables.					
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MI: Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables.					
MI: Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the mu					
Examples of multiplication using equal gro	ıps				
(It is important that children start to understand utilisa	<u>tion at this point)</u>				
Concrete experiences Numicon	•				
FOOTBALL TICKET Y OO TALL TICKET Y OO TALL TICKET	-				
😨 FOOTBALL TICKET 🌆 🚛 🔯 FOOTBALL TICKET 🖓 🚛					
HOLD YOUR OWN TICKET					
Multilink/Cuisenaire/Bar model Abstract/Written Metho	1/1 analysis				
Multilink/ Cuisenaire/ Bar model	17 Language				
f5 f5 f5 f5 j	or the football match. Each ticket cost 5				
pounds. How much does h	e spend?				
\leftarrow	I				
?					
f 5 f 5 f 5 f 5 f 5 f 5	20. $\pounds 5 + \pounds 5 + \pounds 5 + \pounds 5 = \pounds 20$				
£ 5	$4 \times £5 = £20$				
	4 X L5 = L20				
Year					
× í					









		N N N 1	Equivalence
			Which other colour rods can you use to show both halves and quarters?
	12		
	6 6		
1	3 3	3 3	