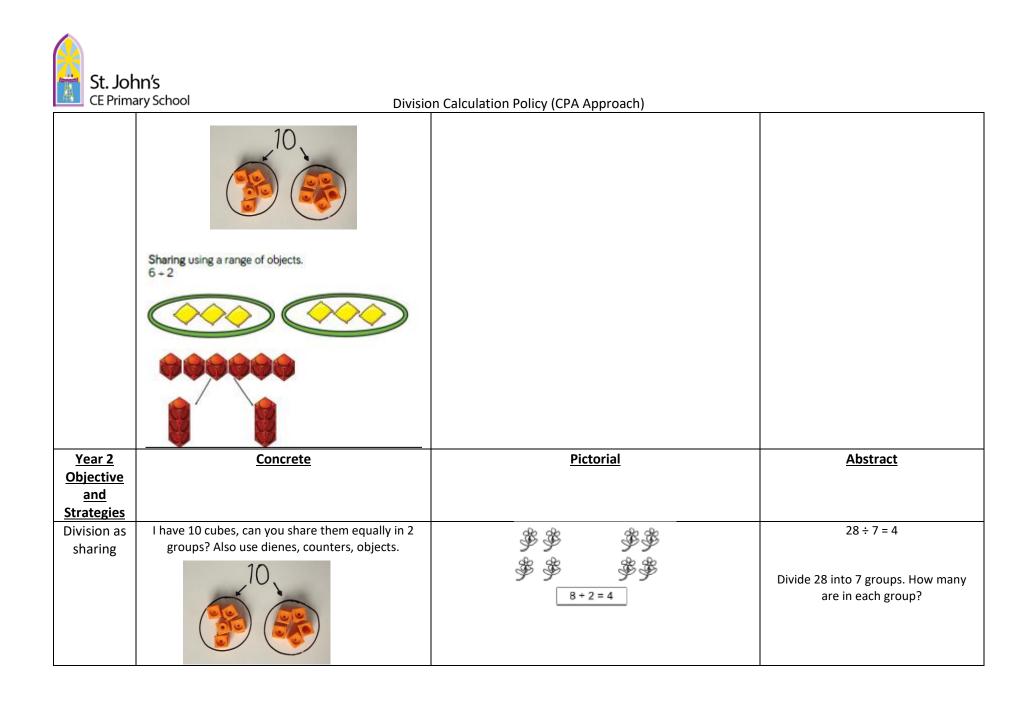
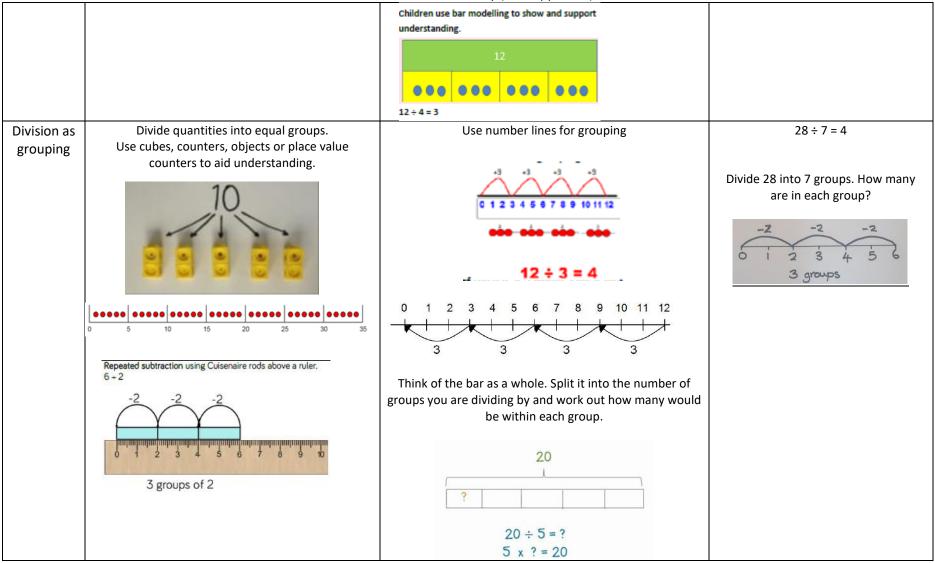


Division Calculation Policy (CPA Approach)

	Certification Policy (CPA Approach)				
Year 1	<u>Concrete</u>	<u>Pictorial</u>	<u>Abstract</u>		
Objective					
and					
<u>Strategies</u>					
Division as					
sharing	I have 10 cubes, can you share them equally in 2 groups? Also use counters, bead strings, dienes, actual objects.	Children use pictures or shapes to share quantities.	12 shared between 3 is 4 6+2=3 3 3 Children should also be encouraged to use their 2 times tables facts.		









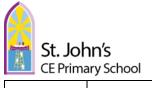
		-2 -2 -2 -2 -2 -2 -2 -2	
Year 3 Objective	<u>Concrete</u>	<u>Pictorial</u>	<u>Abstract</u>
Objective and			
<u>Strategies</u>			
Division as	Use cubes, counters, objects or place value counters to aid understanding.	Continue to use bar modelling to aid solving division problems.	How many groups of 6
grouping		problems.	in 24?
		20	24 ÷ 6 = 4
	24 divided into groups of 6 = 4	? 20 ÷ 5 = ?	
	96 ÷ 3 = 32	5 x ? = 20	



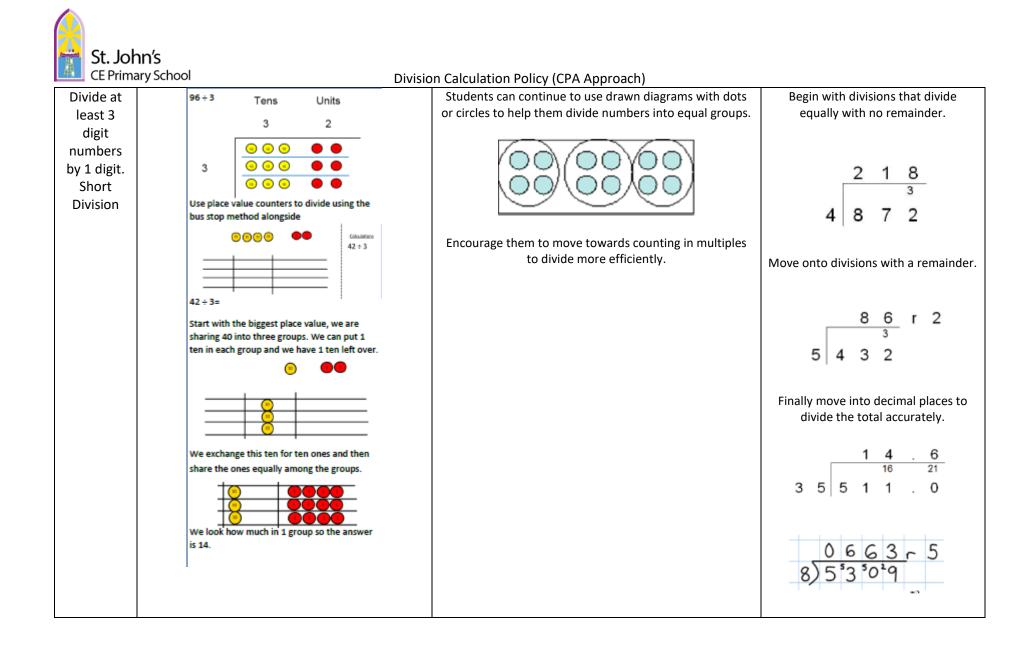
	Division Calculation Policy (CPA Approach)				
Division with arrays		Draw an array and use lines to split the array into groups to make multiplication and division sentences	Find the inverse of multiplication and division sentences by creating eight linking number sentences. $7 \times 4 = 28$ $4 \times 7 = 28$ $28 \div 7 = 4$ $28 \div 4 = 7$		
	Link division to multiplication by creating an array and thinking about the number sentences that can be created. Eg 15 ÷ 3 = 5 5 x 3 = 15 15 ÷ 5 = 3 3 x 5 = 15	$\begin{array}{c} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \end{array}$	$28 = 7 \times 4$ $28 = 4 \times 7$ $4 = 28 \div 7$ $7 = 28 \div 4$		
Division with remainders	14 ÷ 3 = Divide objects between groups and see how much is left over	Jump forward in equal jumps on a number line then see how many more you need to jump to find a remainder.	Complete written divisions and show the remainder using r.		
			29 ÷ 8 = 3 REMAINDER 5 ↑↑↑↑↑↑↑ dividend divisor quotient remainder		
	*	Draw dots and group them to divide an amount and clearly show a remainder.			
		() () () () () () () () () ()			
		Use bar models to show division with remainders.			



10	37 0 10 10
Example without remaind 40 ÷ 5 Ask "How many 5s in 40? Example with remainder 38 ÷ 6	5+5+5+5+5+5+5+5 = 8 fives
For larger numbers, when jumps can be recorded us	0 6 12 18 24 30 36 38 it becomes inefficient to count in single multiples, bigger ing known facts.



Year 4,5 and 6 Objective	<u>Concrete</u>	Pictorial	<u>Abstract</u>
<u>Objective</u>			
<u>and</u> Strategies			
Strategies			





This calculation policy shows some of the methods used in school. The children and teachers will also use other CPA (Concrete, Pictorial and Abstract) approaches in their lessons.