Ye	ar 1 Calculating strand: D					IVISION		
Vocabulary					Key Questions			
hare, share equally, one each, two each, group, groups of, lots of, arra				How many groups of? How many in each group? Share equally into What can do you notice?				
				Example Questions				
		Basic		Advancing		Deep		
istrate f morise itch the	d in a number so the problem the division facts answers to the nu nd how you solved	for the … times table Imber problems	Modify the num	method you prefer to use bers to change the answer imbers into a number sentence.	lnve divis Exp	we how you know the answer is estigate how many different ways you can makeusing sion. blain you method sate two division number sentences from the given numb		
[Objective	Concrete		Pictorial		Abstract		
	Sharing	l have 8 cubes, can you share them equally between two people? 또 당		Children use pictures or shapes to share quantities. 3 + 2 = 4		Share 8 buns between two people. 8 ÷ 2 = 4		
Year 1/2	Grouping	Divide quantities into equal groups. Use cubes, counters, objects or place value counters to aid understanding.		Use a number line to show jumps in groups. The number of jumps equals the number of groups. 0 1 2 3 4 5 6 7 8 9 10 Think of the bar as a whole. Split it into the number of groups you are dividing by and work out how many would be within each group. 10 10 ÷ 5 = ? 5 x ? = 10				

Year 2			(Calculating strand: DIVISION					
Key Questions					Vocabulary			ocabulary	
low man	y 10s can you su	btract from 60?			group in pairs, 3s 10s etc				
think o	f a number and	double it. My answer is 8. What wa	as my number	?·	equal gro	oups of, divide, ÷, c	livided by	, divided into, remainder	
[f 12 x 7	2 = 24, what is 2	24 ÷ 2?	·				·		
Juestior	s in the context	t of money and measures (e.g. how	many 10p coi	ins do I need					
-		100ml cups will I need to reach 600	• •						
		•	•	Example Qu	lestions				
		Basic			ncing			Deep	
	I in a number se the problem	entence.		nich method you prouce of the second se				ν you know the answer is… te how many different ways you can make …using	
	•	for the times table		e numbers into a n			division.		
	answers to the nu							oumethod	
ell a frier	nd how you solved	the problem				Create two numbers.	o division number sentences from the given		
	Objective	Concrete I have 8 cubes, can you share t	ham	Children use	Picto	rial or shapes to shar	e Shar	Abstract re 8 buns between two people.	
		equally between two people?	nem	quantities.	pictures	or snapes to snar	e Snai	8 ÷ 2 = 4	
	50			æ	æ	\$ \$		8	
	Sharing			e e e e e e e e e e e e e e e e e e e	Ľ	チキ		\sim	
				8	×	8 8			
				S S	S	チチ			
		Divide quantities into equal gro		Lise a pumbe	8÷2	= 4 show jumps in	10 +	5 = 2	
		Use cubes, counters, objects of				of jumps equals th		5-2	
		value counters to aid understa	nding.	number of gr	oups.			de 10 into 5 groups. How many are in	
1		10		\sim		\sim	eacr	h group?	
Year 1/2					ŢŢ				
	50			Think of the l	⊶ 5 barasav	vhole. Split it into	,		
	Grouping			1		you are dividing			
	Grou	00000		each group.	t now ma	ny would be with	nin		
					10				
		99999							
				?					
				10	÷5=?				
1					? = 10				

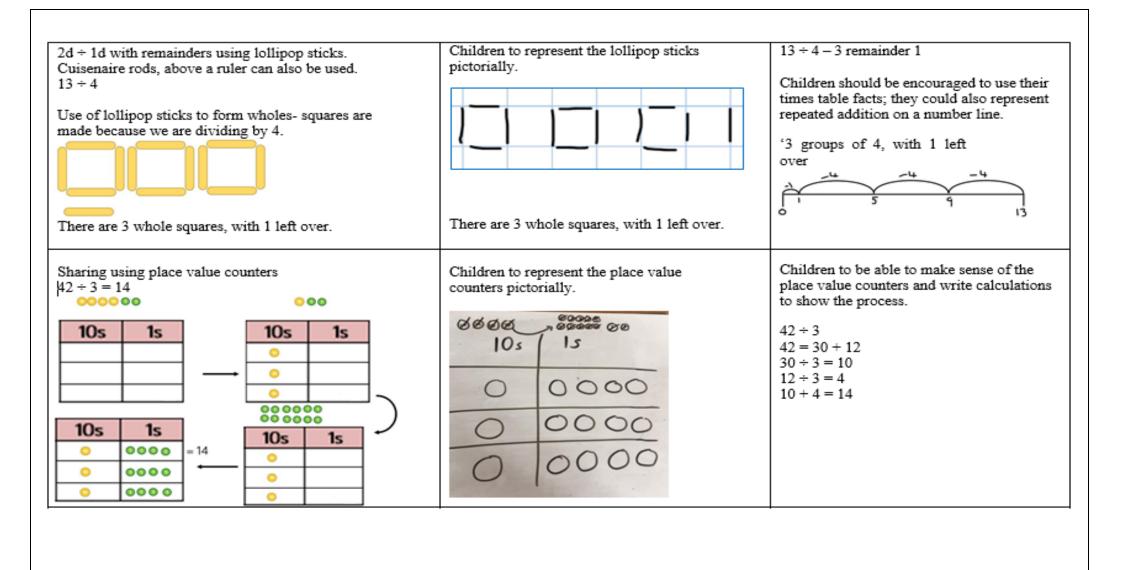
YEAR 3	3/4		Calculati	ng strand: DIVIS	ION		
		Vocabulary			Key Questions		
See Y1 and Y2 inverse				Questions in the context of money and measures that involve remainders (e.g. How many lengths of 10cm can I cut from 81cm of string? You have £54. How many £10 teddies can you buy?) What is the missing number? 17 = 5 x 3 + = 2 x 8 + 1			
				<u>Questions</u>			
Jse a different Describe your		in a different order o solve the calculation. to a partner. oroblem Compare two preferred meth	answer written methods	and explain which one is your	Deep Prove you are correct Create a word problem Create a help sheet to explain the written method that you have used. Investigate the daily journey time/distance if travelled for x amount of days.		
	Objective	Concrete		Pictorial	Abstract		
	Division with arrays	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	array into and divisi	array and use lines to split the ogroups to make multiplication sentences.	15÷5=3		
Year 3/4	Short division	Use place value counters to divide usin the short division method alongside. 96 ÷ 3 3 42 ÷ 3 3 42 ÷ 3 Start with the biggest place value. We are sharing 40 into three groups. We can p 1 ten in each group and we have 1 ten left over. We exchange this ten for 10 ones and then share the ones equally among the groups. We look at how many are in each group.	$27 \div 4 = 6$ For trema you can' 'remaind	3s until reaching 18. 2 3 4 5 3 6 9 12 15 r 3 inders', count in 4s until just before 27, as I land directly on 27. What is left over is the	Short division: Limit numbers to No remainders in the answer OR carried (each digit must be a multiple of the divisor). 3 2 3 9 6		

YEAR	/EAR 5 Calculating				strand: DIVISION			
			Vocabulary				Key Questions	
ee year 4 ommon factors, prime number, prime factors omposite numbers, short division quare number, cube number overse, power of						What do you notice? What's the same? What's Can you convince me? How do you know?	different?	
ivei se, po	JWEI	Basic			Adva	Incing	Deep	
ist all the o	Basic e bus stop method to divide by st all the different vocabulary for division. II me the method you have used to find the total			Predict if a ÷ b would total an odd or an even number. Estimate the answer to, work out the answer to check your estimation. Explain your method. Organise your calculation		dd or an even number.	Create your own word problem. Design your own recipe for 4 meal then scale it down for 2 people. Investigate how many miles would be travelled each day it given a distance and total number of days travelled.	
Г	Objective		Concret		1	Pictorial	Abstract	
F		objective	contret	ele		rictorial	96 ÷ 6 <u>≡16</u> (without remainders)	
	Year 5,	Division With remainders	See Year 4 for concrete n (Using numbers where th a remainder.)		10 - 40	ivision by chunking on a numberline $96 \div 4 = 24$ 40 80 96 40 80 96 10 + 10 + 4 = 24	$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} 0\\ \end{array}\\ \end{array}\\ \begin{array}{c} \end{array}\\ \begin{array}{c} \end{array}\\ \begin{array}{c} \end{array}\\ \end{array}$ \left \begin{array}{c} \end{array}\\ \end{array}\\ \begin{array}{c} \end{array}\\ \end{array} \left \begin{array}{c} \end{array}\\ \end{array} \left \begin{array}{c} \end{array}\\ \end{array} \left \begin{array}{c} \end{array}\\ \end{array} \left \begin{array}{c} \end{array} \left \begin{array}{c} \end{array} \left \begin{array}{c} \end{array} \left \end{array} \left \end{array} \left \end{array} \left \begin{array}{c} \end{array} \left \end{array} \left \end{array} \left \end{array} \left \end{array} \left \begin{array}{c} \end{array} \left \end{array}	
		Short division With remainders	364 ÷ 3 = 3 364			See above.	Move onto divisions with a remainder.	

YEAR 6		Co	alculating	strand: DIVISI	ON	
	Vocabulary				Key Questions	
see years 4 and 5			<u>Example (</u>	What do you notice? What's the same? What's different? Can you convince me? How do you know? xample Questions		
	Basic		Adva	ncing	Deep	
List all the different vocabulary for division. Tell me the method you have used to find the total Explai				dd or an even number. out the answer to check your	Create your own word problem. Design your own recipe for 4 meal then scale it down for 2 people. Investigate how many miles would be travelled each day if given a distance and total number of days travelled.	
	Concrete			Pictorial	Abstract	
Short division with fraction remainder	Short division with fraction remainder		Children will	draw their own counters to show their calculation.	$748 \div 9 = \frac{083}{974289}$ 748 ÷ 16 = 748 ÷ 16 = 748 ÷ 16 = 748 ÷ 16 = 748 ÷ 16 = 34 748 ÷ 16 = 748 ÷ 16 = 34 748	
Short division with decimal remainder		I	Children will	draw their own counters to show their calculation.	$748 \div 9 = 0 8 3 \cdot 1 1 9 7 4 28 \cdot 0 10$ $748 \div 16 = 0 4 6 \cdot 7 5 1 6 7 7 4108 2080$	

	432 ÷ 15 becomes 432 ÷ 15 becomes 432 ÷ 15 becomes
Long division	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Answer: 28 remainder 12Answer: $28 \frac{4}{5}$ Answer: $28 \cdot 8$

Concrete	Pictorial	Abstract
Sharing using a range of objects. 6 ÷ 2	Represent the sharing pictorially.	6÷2=3
		3 3
		Children should also be encouraged to use their 2 times tables facts.
	?	
Repeated subtraction using Cuisenaire rods above a	Children to represent repeated subtraction	Abstract number line to represent the
ruler. 6 ÷ 2	pictorially.	equal groups that have been subtracted.
	-2 -2 -2	-Z -2 -2 0 1 2 3 4 5 6 3 groups
0 1 2 3 4 5 6 7 8 9 10 3 groups of 2	0 2 4 06	



Short division using place value counters to group. 615 ÷ 5	Represent the place value counters pictorially.	Children to the calculation using the short division scaff $123_{6^{1}1^{1}5}$
1000s 100s 10s 1s 1000s 100s 1s We can't group 2 thousa groups of 12 so will exch 1000s 100s 10s 1s 1000s 100s 10s 1s We can't group 2 thousa groups of 12 so will exch We can group 24 hund into groups of 12 which with 1 hundred.	dreds $12\overline{)2544}$	

