Yeo	ar 1		C	Calculating strand: DI	DIVISION		
Vocabulary				<u> </u>	Key Questions		
hare, share equally, one each, two each, group, groups of, lots of, arro				How many groups of? How many in each group? Share equally into What can do you notice?			
				Example Questions			
		Basic		Advancing		Deep	
seand in a number sentence. ustrate the problem emorise the division facts for the times table atch the answers to the number problems ell a friend how you solved the problem			Compare which method you prefer to use Prove Modify the numbers to change the answer Inves Organise the numbers into a number sentence. division Expla Expla		ve how you know the answer is estigate how many different ways you can makeusing sion. Ilain you method ate two division number sentences from the given numbers		
	Objective	Concrete		Pictorial		Abstract	
	Sharing	I have 8 cubes, can you share them equally between two people? Divide quantities into equal groups. Use cubes, counters, objects or place value counters to aid understanding.		Children use pictures or shapes i quantities. 3 3 3 3 3 3 3 3 3 3	to share	Share 8 buns between two people. 8 ÷ 2 = 4	
Year 1/2	Grouping			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		Divide 10 into 5 groups. How many are in each group?	

Year 2			(Calculatin	g stra	nd: DIVIS	SION
Key Questions					Vocabulary		
How many 10s can you subtract from 60? I think of a number and double it. My answer is 8. What was my number?					group in pairs, 3s 10s etc equal groups of, divide, ÷, divided by, divided into, remainder		
	2 = 24, what is a ns in the contex [.]	24 ÷ 2? t of money and measures (e.g. how	many 10p coi	ns do I need			
•		100ml cups will I need to reach 600					
				<u>Example Q</u>			-
		Basic		Advo	ancing		Deep
Iseand in a number sentence. Iustrate the problem Iemorise the division facts for the times table Iatch the answers to the number problems Iell a friend how you solved the problem			Modify the numbers to change the answer Invest Organise the numbers into a number sentence. divis Expl Creation		Prove how you know the answer is Investigate how many different ways you can makeusin division. Explain you method Create two division number sentences from the given numbers.		
	Objective	Concrete			Picto	rial	Abstract
	I have 8 cubes, can you share the equally between two people? 단 단			quantities.	ے پی پی	\$\$\$\$ \$\$ \$\$ \$\$	8 ÷ 2 = 4
Year 1/2	Grouping	Divide quantities into equal gro Use cubes, counters, objects or value counters to aid understand	r place	groups. The number of g 0 1 2 3 Think of the the number and work ou each group. ?	number of roups.	show jumps in of jumps equals the f jumps equals the syou are dividing any would be with	Divide 10 into 5 groups. How many are in each group? - :o g by

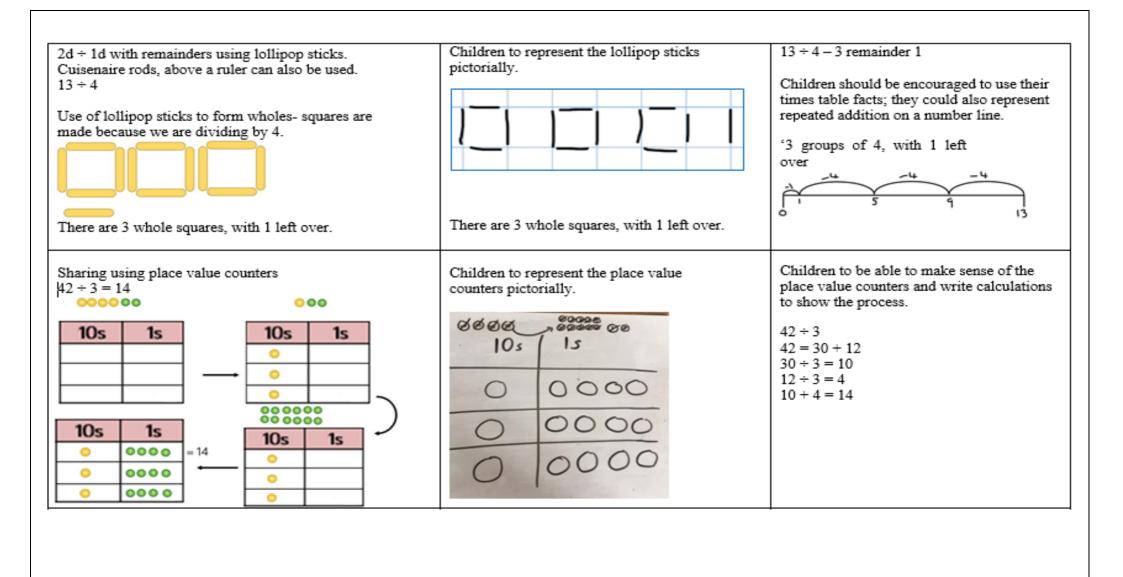
YEAR 3	/4		Ca	lculating	g strand: DIVI	SION	۱	
	·	Vocabulary				Ke	y Questions	
bee Y1 and Y2 nverse				Questions in the context of money and measures that involve remainders (e.g. How many lengths of 10cm can I cut from 81cm of string? You have £54. How many £10 teddies can you buy?) What is the missing number? 17 = 5 x 3 + = 2 x 8 + 1				
				Example Q	uestions			
Basic			Advanci	3			Deep	
lse a different escribe your r		o solve the calculation. Ex to a partner. Es problem Cc	rganise your calc xplain your metho stimate the answe ompare two writte eferred method. pply your written	od er en methods ar	nd explain which one is your	Create Create have u Invest	e you are correct e a word problem e a help sheet to explain the written method that you used. tigate the daily journey time/distance if travelled for x <u>nt of days.</u>	
	Objective	Concrete			Pictorial		Abstract	
	Division with arrays	Link division to multiplication by creating an array and thinking about the number sentences that can b Eg. 15 ÷ 3 = 5 5 x 3 = 15 15 ÷ 5 = 3 3 x 5 = 15	e created.	array into g	ay and use lines to split the sentences.	d 5 5 he1	ind the inverse of multiplication and livision sentences by creating four inking number sentences. 5 x 3 = 15 3 x 5 = 15 15 ÷ 5 = 3 15 ÷ 3 = 5	
Year 3/4	Short division	Use place value counters to of the short division method alo 96 ÷ 3 3 42 ÷ 3 Start with the biggest place value. We are sharing 40 into three groups. 1 ten in each group and we h left over. We exchange this ten for 10 ones and then share the ones equally among the grou We look at how many are in each group.	We can put	$27 \div 4 = 6 r 3$ For 'remained	until reaching 18. 2 3 4 5 6 9 12 15 12 12 15 12 12 12 12 12 12 12 12	9	Short division: Limit numbers to NO remainders in the answer OR corried (each digit must be a multiple of the divisor).	

YEAR 5			Co	strand: DIVISION			
ommon factors, prime number, prime factors omposite numbers, short division quare number, cube number					<u>Key Questions</u> What do you notice? What's the same? What's different? Can you convince me? How do you know?		
Basic se bus stop method to divide by st all the different vocabulary for division. II me the method you have used to find the total			Advancing 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 given a distance and total number of days travelled.	
	Objective	Concrete	2		Pictorial	Abstract	
Year 5,	Division With remainders	See Year 4 for concrete n (Using numbers where th a remainder.)		How rest with the second with	vision by chunking on a number line $96\div 4=24$ 40 80 $96y lots of 4 altogether?10+10+4=24$	96 ÷ 6 = 1.6 (without remainders) $ \begin{array}{r} 96 \div 6 = 1.6 \\ - 60 \\ 10 \\ x.6 \\ - 36 \\ - 36 \\ 6 \\ x 6 \end{array} $ The idea is to get as close to 0 as possible subtracting away multiples 98 ÷ 6 = 1.6r ² (with remainders) $ \begin{array}{r} 98 \div 6 = 1.6r2 \\ - 38 \\ - 36 \\ - 3$	
	Short division With remainders	$364 \div 3 =$ $3 \boxed{121 \text{ rem } 1}$ $3 \boxed{364}$ $0 \qquad 0 \qquad$			See above.	Move onto divisions with a remainder.	

YEAR 6		Ca	alculating	strand: DIVISI	ON	
	Vocabulary			Key Questions		
see years 4 and 5	Basic		· · ·	What do you notice? What's the same? What's different? Can you convince me? How do you know? e Questions		
Use bus stop method to divide by Prediction List all the different vocabulary for division. Estimation Tell me the method you have used to find the total estimation Explain Explain			timate the answer to, work out the answer to check your timation. plain your method.		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			Children will	draw their own counters to show their calculation.	748 ÷ 9 = 0 8 3 1 9)7 4 28 9 748 ÷ 16 = 1 6)7 4 108 12 = 3 1 6)7 4 108 16 = 4 The remainder above is simplified to %.	
Short division with decimal remainder	Short division with decimal remainder		Children will	draw their own counters to show their calculation.	$748 \div 9 = 083 \cdot 11$ $9)7428 \cdot 00$ $748 \div 16 = 046 \cdot 75$ $16)741082080$	

L O		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Long division	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	Answer: 28 remainder 12 Answer: 28 $\frac{4}{5}$	Answer: 28-8

Concrete	Pictorial	Abstract
Sharing using a range of objects. 6 ÷ 2	Represent the sharing pictorially.	6 ÷ 2 = 3 3 Children should also be encouraged to use their 2 times tables facts.
Reported subtraction barry 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 -2 -2 -2 -2 -2	-Z -2 -2 0 1 2 3 4 5 6 3 groups
3 groups of 2		



 Short division using place value counters to group. 615 ÷ 5 100s 10s 1s 1s 000000 00000000000000000	Represent the place value counters pictorially.	Children to the calculation using the short division scaff 123 $5 6^{1}1^{1}5$			
Long division using place value counters - 2544 ÷ 12 1000s 10s 1s • • • • • • • • • • • • • • • • • • •					
1000s 10s 1s We can group 24 hundreds into groups of 12 which leaves with 1 hundred. 02 12 2544 24 1					

