Curriculum Area: Maths	Year Group: 3	Term: Spring I	KINGFISHER PRIMARY Astrea Academy Trust Inspiring Arroub Measure
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Key Areas of Learning:	Around the home activities	Your Challenge	
- Division	- Use different objects around the house to make arrays	Five children are playing a game.	
Key Questions -What do you notice? - How do you know? - How can you prove your thinking?	 Practise your x3 table by grouping toys into equal groups of 3 and counting them. Can you count forwards and backwards? Use times tables rock stars to practice your 4 and 8 times tables. 	They score 4 points for every bucket they knock down.4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	

Suggested Learning Activities	Resources	Desired Outcome
Each activity is either activity A or activity B. Activity A will include a Year 2 recap video to re	fresh the children's memories of what has been taught last	year plus activities to complete.
Activity B will link to the objective of activity A but will be pitched at a Year 3	level. These sessions do not have supporting videos but are e	xplained below.
Activity A – To use the division symbol when sharing.		
Click the link here $ ightarrow$ and follow along with the lesson.	https://classroom.thenational.academy/lessons/using_	
	the-division-symbol-when-sharing-60tkct	
In this lesson you will be introduced to division as sharing a number of items equally between a	Pencil + Paper	
number of groups. You will also practise writing division equations.		

Activity B - To understan	l division as shar	.ng into equa	l groups	(Recapping from	previous lesson)	
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Begin by collecting 12 objects. (objects of the same size). Write 12 \div 3 on the board and solve this problem.

(Children should share them out equally into 3 piles as they were taught this last lesson.)

We are going to share the objects equally into 3 groups. The answer is how many are in one group.



There are 4 in each group so 12 \div 3 = 4

Go through the following examples. $15 \div 3 = 16 \div 4 = 24 \div 8 =$

Now that we have done a few of them, instead of drawing circles and sharing out we can draw bars -a bar model.

 $12 \div 3 =$ We are going to share into 3 groups so we need to draw 3 equal bars (Draw the same size bars). Put the whole on the top and then share it equally



Go through the following calculations to practise more. $36 \div 4 = 24 \div 3 = 16 \div 8 =$ Ensure that you are sharing into equal groups.

	12 X 12 Multiplication Table												
×	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
5	0	5	10	15	20	25	30	35	40	45	50	55	60
6	0	6	12	18	24	30	36	42	48	54	60	66	72
7	0	7	14	21	28	35	42	49	56	63	70	77	84
8	0	8	16	24	32	40	48	56	64	72	80	88	96
9	0	9	18	27	36	45	54	63	72	81	90	99	108
10	0	10	20	30	40	50	60	70	80	90	100	110	120
11	0	11	22	33	44	55	66	77	88	99	110	121	132
12	0	12	24	36	48	60	72	84	96	108	120	132	144

Pencil + Paper

Remember multiplication is the inverse to division (the opposite) so you can use this grid as a reminder.

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Challenge:		
Tommy and Annie have some counters.		
Tommy shares his counters into 2 equal groups. He has 15 in each group.		
Annie groups her counters in twos. She has 19 groups.		
Who has more counters and by how many? How did you work it out?		
Activity A - Solving division problems when sharing	https://classroom.thenational.academu/lessons/solvina_	
Click the link here \rightarrow and follow along with the lesson.	division-problems-when-sharing-69j64c Pencil + Paper	
In this lesson you will solve sharing division problems using bar models.		
Activity B – To understand division by grouping.	Pencil + Paper	
Let's check! — based on yesterday's lesson		
There are 12 pieces of fruit. They are shared equally between 3 bowls. How many pieces of fruit are in each bowl? Use cubes/counters to represent fruit and share between 3 circles.		
Look at the calculation - 12÷4. Can you solve this using objects? This week we have been dividing by sharing but there is another way to divide and that is by grouping. Divide 12 by putting it into groups of 4. Every time you make a group you will have less object as we are putting them into equal groups.		



Now solve the following calculations using this methods. $15 \div 3 = 24 \div 4 = 16 \div 8 =$	
	Reasoning sentences starters which you could use
	are:
Reasoning:	I have noticed that
Share 33 cubes between 3 groups.	 I already know that so I know This is true/false because
Complete	
There are 3 groups with cubes in	
each group.	
Dut 77 subscients services of 7	
Put 35 cubes into groups of 5	
Complete:	
each group.	
33 ÷ 3 =	
What is the same about these two	
divisions? What is different?	
What is officient:	
	https://classroom.thenational.aca.dom//lessons/csl/iin.a
Activity A – Solving division problems when grouping.	division_problems_when_grouping_ccvp6r
	Pencil + Paper
Click the link here $ ightarrow$ and follow along with the lesson.	
in this tessori you will solve grouping atvision problems using bar models.	



Challenge:		
Jack has 15 stickers.		
<u>A A A A A A A A A A A A A A A A A A A </u>		
He sorts his stickers into equal groups		
but has some stickers remaining.		
How many stickers could be in each		
group and how many stickers would be		
remaining		
Activity A – To find related multiplication and division facts.	https://classroom.thenational.academy/lessons/finding_	
Click the link here $ ightarrow$ and follow along with the lesson.	related-multiplication-and-division-facts-cdj6cc	
In this lesson you will explore the relationship between multiplication and division to identify related	Pencil and Paper	
Activity $B - I_0$ use the less than and greater than symbol to compare division calculations.		
Today we are going to look at the greater than, less than and the equals to symbol. Let's remind ourselves.		
>Greater than		
< less than		
= equals to		
Now lets look at the first statement and make it correct.		
6÷3= 8÷8 =		
In this circle, we are either going to write $>$, $<$ or =		
Before we can add in the correct symbol we need to work the calculation out. We will do this by using the		
arouping method.		
6÷3=		
We have 6 altogether.		



We have now shared the cubes into equal groups. The answer is how many groups we have altogether. Therefore the answer is 2.

Now we are going to solve $8 \div 8 =$





We have now shared the cubes into equal groups. The answer is how many groups we have altogether. Therefore the answer is ${\sf I}.$

We now know that, $6 \div 3 = 2$ $8 \div 8 = 1$

2 is 1 more than 1. Therefore $6 \div 3$ = is greater than $8 \div 8$ = We can now add in the correct symbol to complete the sentence.

6÷3= > 8÷8 = 2 |

Remember: the `=' symbol means the that both the calculations equal the same answer.

For example: I worked out $15 \div 3 = 5$ and $40 \div 8 = 5$ earlier. Both of these calculations have the same answer. So I would write the equals sign in to complete the sentence.

15÷3= 40÷8 = = 5 5

<u>Challenge</u>		
Jack has 18 seeds.		
He plants 3 seeds in each pot.		
Which bar model matches the problem?		
A 18 6 6 6 6		
B 18 3 3 3 3 3 3 8		
Explain your choice.		
Activity A – To solve multiplication and division facts.	https://classroom.thenational.academy/lessons/solving- multiplication-and-division-problems- 69h66d?activity=intro_quiz&step=1 Pencil + Paper	
Click the link here \rightarrow and tollow along with the lesson.		

Activity ${f B}$ – To show multiplication and division through	
visual representations.	
Today we are going to look at stem sentences based on the	
visual representations.	



X = ÷ =	
I have cans altogether.	
There are in each group.	
There are groups.	
X = ÷	
<u>Challenge</u>	
Mo and Tommy have 12 sweets between them. They share	
them equally. How many sweets does each child get?	
There are available alterether 12	
There are sweets allogether.	
There are in each group.	
Complete the bar model and write a calculation to match.	