w/b: 3.5.21

	Learning objective	Main teaching	Activity	Resources	Vocabulary
Tuesd ay	L.O. to multiply up to four digit numbers one digit numbers	RECAP: factor x factor = product sentences and remind factors have to be whole numbers. Children to find products of 12 and 36 and write them into number sentences. Then find missing factor: x 7 = 56 INTRODUCE: multiplicand_x multiplier = product multiplicand = group size multiplier = number of groups E.G: 2 x 4 = 8 Multiplicand = 2 (group size) multiplier = 4 (number of groups) Work through 1204 x 6 by coming up with a story (e.g. 6 people raised £1204 for charity. How much money was raised in total?) and partitioning 1204. After chn complete main activity - work through: In each storey of a multi-storey car park, there were 27 rows with 32 parking spaces in each row. The car park had 6 storeys. How many cars could park altogether?	Main activity: Use a 9 sided dice to roll a four digit number and a one digit number. Create a story for the number sentence and complete the multiplication. Repeat 3x. Who can get the smallest product? Challenge: Children to work through the word problem questions (below) either: a. with Teacher b. in a pair c. independently Children make a note in their books of which they chose.	Paper Pencil Ruler Word problem questions Dice	Multiplication Multiplicand Multiplier Product Factor

	L.O. to multiply up	Recap method for multiplying 3/4d number by 2d number.	Main activity:	Paper	Multiplicatio
	to four digit numbers by	Misconceptions/potential mistakes (teacher model these):	Use a 9 sided dice to roll a four digit number	Pencil	n
	two digit	wisconceptions, potential mistakes (teacher model these).	and a two digit number. Create a story for	T CITCH	Multiplicand
	numbers	- forgetting place holder zero on second row	the number sentence and complete the	Ruler	Waterpricaria
		 digits wrong way round when writing in answer line 	multiplication.		Multiplier
			·	Word	
		Work through 1204 x 26 by coming up with a story (e.g. 26 people	Repeat 3x.	problem questions	Product
		raised £1204 for charity. How much money was raised in total?) and partitioning 1204.	Who can get the smallest product?	questions	Factor
		partitioning 1204.	who can get the smallest product?	Dice	Factor
Wedn		Set chn off with task then after 10 mins model challenge question:	Challenge: Children to work through the		
esday		odd x odd = odd	word problem questions (below) either:		
		odd x even = even	a. with Teacher		
		even x even = even	b. in a pair		
		So we will need odd x odd	c. independently		
		What is the smallest product you can 5 2 7 3 6	Children make a note in their books of which		
		make that's also an odd number?	they chose.		
		Th H T O			
		×			
	L.O. to use	£480 \div 8 = £60	Copy and complete short division problems	Counters if	Short
	short division	7	(on website).	needed	division
	ulvision	DIVIDEND QUOTIENT	Work either:	Problems	Divisor
		DIVISOR	- with teacher	(on	
Thurs			- in pair	website)	Dividend
day		At home watch: https://vimeo.com/461398248	- independently	Timestable	Quetient
		At school: Jack has 264 straws. He wants to make them into		Timestable sheets if	Quotient
		triangles. How many triangles can he make?		needed	Factor
		Work through the above and below questions using short			
		division.		Paper	Groups
				l	

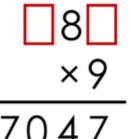
		Use a formal written method of short division to solve the following. Show your remainder as a whole number.		Pencil	
		Show your remainder as a whole number.		Ruler	
		a 496 ÷ 11 =			
	L.O. to use long	Work through below questions as a class. When children feel confident they can move onto questions.	Copy and complete long division problems (below).		long division
	division				Divisor
		598 ÷ 13	Work either:		
		330 . 13	- with teacher		Dividend
			- in pair		
		741 ÷ 13	- independently		Quotient
			Extra challenge:		Groups
Friday		There are 146 adults and 69 children attending a wedding. During the meal each table seats 14 people.	Explain the mistakes 544÷16		
			Mistake 1 Mistake 2		
			16 544 16 544		
		How many tables are needed?	- <u>480</u> (16 × 30) - <u>480</u> (16 × 30)		
		Discuss how firstly, we need to find the total number of people			
		attending the wedding, then we have to put this total into groups of	<u>-160</u> (16×10) <u>-54</u> (16×4)		
		14.	= 40 r 4 = 34 r 10		
		At home watch, https://wienes.com/461000070.com/	= 40 ~ 4 = 34 ~ 10		
		At home watch: https://vimeo.com/461800078 and			
1	1	https://vimeo.com/463003643		1	1

- 1) Mr Bright wants to replace the school's footballs. Each football costs £9 and he wants to order 1345. How much will they cost?
- 2) Mrs Dalton walks around Anglesey
 Abbey twice a week for a year. Each
 time she walks for 4.6 miles. If Mrs
 Dalton does this for 3 years, how many
 miles would she walk in total?

 $248 \times 10 = 2,480$

Without using the formal method, how could you use this fact to calculate 248×9 ?

Missing digits



Complete using digits 0-9. Position the digit 1 as shown.



Level 1: I can find a way

Level 2: I can find different ways

Level 3: I know how many ways there are

Oliver and Tamina are trying to solve the question:

324 x 15.

Oliver's method is: 324 x 5 add 324 x 10

Tamina's method is: 324 x 3 x 5

Explain who is correct.

1 2 3 6 5

Using the digit cards, what is the greatest 3-digit by 2-digit product you can make that is also an odd number?



The whole calculation uses each of the digits 0-9 once and once only.

The 4-figure number contains three consecutive numbers, which are not in order. The third digit is the sum of two of the consecutive numbers.

The first, third and fifth figures of the five-digit product are three consecutive numbers, again not in order. The second and fourth digits are also consecutive numbers.

Can you replace the stars in the calculation with figures?

https://nrich.maths.org/1129/note

