Weekly Maths Planning **Unit: Multiplication and Division** **Y5/6** **w/b: 3.5.21**

	Learning objective	Main teaching	Activity	Resources	Vocabulary
Tuesday	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: 12 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

Wednesday	L.O. to multiply up to four digit numbers by two digit numbers	Recap method for multiplying 3/4d number by 2d number. Misconceptions/potential mistakes (teacher model these): - forgetting place holder zero on second row - digits wrong way round when writing in answer line Work through 1204 x 26 by coming up with a story (e.g. 26 people raised £1204 for charity. How much money was raised in total?) and partitioning 1204. **Set chn off with task then after 10 mins model challenge question:** odd x odd = odd odd x even = even even x even = even So we will need odd x odd What is the smallest product you can make that's also an odd number? 5 2 7 3 6 Th H T O ×	**Main activity:** Use a 9 sided dice to roll a four digit number and a two 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
Thursday	L.O. to use short division	£480 ÷ 8 = £60 DIVIDEND DIVISOR QUOTIENT At home watch: https://vimeo.com/461398248 At school: **Jack has 264 straws. He wants to make them into triangles. How many triangles can he make?** Work through the above and below questions using short division.	Copy and complete short division problems (on website). Work either: - with teacher - in pair - independently	Counters if needed Problems (on website) Timestable sheets if needed Paper	Short division Divisor Dividend Quotient Factor Groups

		4 Use a ***formal written method*** of short division to solve the following. Show your remainder as a whole number. a 496 ÷ 11 = ☐		Pencil Ruler	
Friday	L.O. to use long division	Work through below questions as a class. When children feel confident they can move onto questions. 598 ÷ 13 741 ÷ 13 There are 146 adults and 69 children attending a wedding. During the meal each table seats 14 people. **How many tables are needed?** 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 14. At home watch: https://vimeo.com/461800078 and https://vimeo.com/463003643	Copy and complete long division problems (below). Work either: - with teacher - in pair - independently Extra challenge: Explain the mistakes 544÷16 **Mistake 1** 16 | 544 -480 (16×30) 64 -160 (16×10) 4 = 40 r 4 **Mistake 2** 16 | 544 -480 (16×30) 64 -54 (16×4) 10 = 34 r 10		long division Divisor Dividend Quotient Groups

<u>Tuesday Challenges:</u>

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 × 10 = 2,480 Without using the formal method, how could you use this fact to calculate 248 × 9?
Missing digits $\square 8 \square \times 9 = 7047$	***Complete using digits 0-9. Position the digit 1 as shown.*** $\blacksquare\blacksquare \times \blacksquare = \blacksquare\blacksquare 1$ *Level 1: I can find a way* *Level 2: I can find different ways* *Level 3: I know how many ways there are*

Wednesday Challenges:

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

Friday long division problems:

Complete the number track with the multiples of 15

15									

Use the multiples of 15 to complete the divisions.

15 | 7 6 0

15 | 1 6 3

A school has 380 pupils, 24 staff and 9 governors.

Everyone is invited to a special meal.

Each table seats 12 people.

a) How many tables are needed?

Tommy needs to buy 650 balloons for a festival.

Party Supplies

Fun Stores

How much would it cost to buy the balloons from each shop?

8,200 lorries need to travel across the Channel from Dover to Calais. The ferry can transport 79 lorries in one journey.

How many journeys will it take to transport all 8,200 lorries?