Notes for Mrs Lewis's, Mrs Martin's and Mrs Quantick's Yr6 maths students

for the week beginning 18th January 2021

Please note that Mrs Quantick has set some additional challenges relating to today's lessons in the Maths Extension Tasks tab on our Year 5 and 6 Home Learning page

For this week's lessons, you will need to access the National Oak Academy at:

https://classroom.thenational.academy/units/multiplication-and-division-69f6

This series of lessons will cover areas we have already encountered in class, but they will revise and rehearse the areas you all found most tricky.

We hope you enjoy Mr Latham's jokes!

Monday, 18.01.2021

The First lesson we'd like you to complete is Lesson 3: **Multiply and divide by 10, 100 and 1000 involving decimals**

Complete the quiz first. It will revise your knowledge of place value.

Play the video.

You will need a pencil, paper and a ruler. You will need to copy the place value chart so remember to pause the video while you do that.

You will need some very important stem sentences while you're doing this lesson, so write them out first:

STEM Sentences

To multiply by 10, the digits move 1 place to the left.

To divide by 10, the digits move one place to the right.

To multiply a number by 100, the digits move 2 places to the left.

To divide a number by 100, the digits move 2 places to the right.

To multiply a number by 1000, the digits move 3 places to the left.

To divide a number by 1000, the digits move 3 places to the right.

For the independent tasks you could print off the sheets or just look at the questions on screen and note down your answers.

Please don't be tempted to simply add and subtract zeros as an easy option. Although this does work with whole numbers, it will not work with decimal numbers, so you really need to learn the correct technique!

Go through your answers and correct and errors.

Don't forget to complete the final quiz at the end. Take your time, concentrate and try to get 5/5!

Tuesday 19.01.21

You will need to access National Oak Academy Lesson Multiply and divide by 10, 100 and 1000 with in context (thenational.academy) This lesson uses the skills you developed yesterday but with a context of measurement.

You will need a pencil, some paper and a ruler. You will need to copy the place value chart, so remember to pause the video here.

You will need to remember those really important stem sentences that we used yesterday. Read them again no and perhaps write them out, so that you can refer to them during the lesson.

STEM Sentences

To multiply by 10, the digits move 1 place to the left.

To divide by 10, the digits move one place to the right.

To multiply a number by 100, the digits move 2 places to the left.

To divide a number by 100, the digits move 2 places to the right.

To multiply a number by 1000, the digits move 3 places to the left.

To divide a number by 1000, the digits move 3 places to the right.

During the lesson you will be converting grams to kg and kg to grams.

It's really important to remember that there are 1 thousand grams in each Kilogram.

So 1000g = 1kg

The video explains the process of converting between these measurements really well. The following STEM sentences will be particularly important.

Please copy these out:

To convert grams (g) to Kilograms (kg) we need to divide by 1000 because there are 1000 grams (g) in every Kilogram(kg).

To convert kilograms(kg) to grams (g) we need to multiply by 1000 because for every 1 kilogram (kg) there 1000 grams (g).

You will also be converting money. You should already know that there are 100 pennies (p) in every pound (£). So you will need the following STEM sentences to help you when converting between £/p. Please copy these statements:

To convert pence (p) to pounds (£), I need to divide by 100 because there are 100 pence (p) in every (£).

To convert pounds (£) to pence (p) I need to multiply by 100 because for every £1 I have, there are 100 pennies.

Complete the quiz as a warm-up and then play the video.

You don't need to print out the worksheet, you can just write your answers down.

Don't forget to complete the exit quiz.

Wednesday 20.01.21

Please access today's lesson at:

[Understand the terms 'common factor' and 'common multiple' as properties of a number (thenational.academy)](thenational.academy)

Personally, I think our jokes are better than Mr Lathan's, so try this one...

What did the policeman say to his belly?

You're under a vest!

You see, it's worth reading these notes just for the (bad) jokes.

Complete the warm up quiz, which is revision of yesterday's lesson.

You will be asked to write down a definition of the word 'multiple' and the word 'factor'. This is not completely new as we have covered this in class, but it can sometimes be a tricky area so this revision will be really useful. You will hear the term 'integer'. It's useful to think of this word as meaning any whole number. Copy the STEM sentences below and the examples:

Stem Sentences

Multiples are the numbers in a particular times table e.g.

The Multiples of 3 are : 3,6,9,12,15,18,21,24,27,30,33,36 and this would continue endlessly.

Factors are numbers that another number can divide by exactly (with no remainder).

We use factor pairs to identify the factors of a number e.g.

The factor of 24 are:

1 (x) 24

2 (x) 12

3 (x) 8

4 (x) 6

So, the factors of 24 are: 1, 24, 2, 12, 3, 8, 4 and 6.

The Factor Bugs are an excellent representation! I've learnt something new from the homeschooling process. There will be some positives that come out of all of this!

The video prompts you to answer the final quiz, but I couldn't find one. There may have been a problem on the site when I was making these notes, so have a try, but don't worry if you can't find it.

Thursday 21.01.21

Please access the following lesson from Oak National Academy:

[Identify properties of numbers (thenational.academy)](thenational.academy)

For this lesson it would be useful, but not essential to print out a 1-100 grid. There is a printable version as a PDF. If you don't have access to a printer, or if your printer is feeling temperamental/has run out of ink, don't panic, just copy this:

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

The warm up quiz is recapping yesterday's learning about multiples and factors.

During the main lesson you will defining the mathematical terms: 'multiple', 'factor', 'composite number' and 'prime number'.

Please copy these definitions out.

One of the tasks is to identify prime numbers on your 1-100 grid. Mr Lathan encourages you to do this 'with a friend'. Although you can't do this is the physical sense, maybe you could arrange a good time to phone a friend, if your grown up is ok with you doing that.

Mr Lathan doesn't go through possible answers at the end of the lesson, but please send in your factor/ multiple chains, so that we can see your wonderful learning!

Don't forget to complete the final quiz. Try to get all 4 questions correct!

Friday 22.01.21

Complete the Arithmetic Practice Paper.

There are additional SATs style questions on Mrs Q's Maths Extension Tasks page for those who would like an end of week stretch.