Year 4 Maths Learning for week beginning: Monday 18th January

InformationMaths lessons at home are planned for approximately 45 minutes and then an additional 15
minutes of times tables practise.The online links we are using this week are:
www.activelearnprimary.co.uk
Login: Initial, surname eg. ssmith
Password: yr2016
School Code - BCCJ

The attached worksheets have been made to focus on what you are learning on each day - they are not the worksheets in the video, so please don't become confused if on the video they tell you to work through certain questions - you have not got these. Watch the whole video. When you have completed a worksheet, you can have a look at the answers attached as a separate document. Mark your work against these answers.

Mondays: times tables lesson

Tuesdays, Wednesdays and Thursdays: These 3 lessons will focus on place value

Fridays: Telling the Time and time problems.

If you complete your learning really quickly, make use of any additional time to practise your times tables as suggested in the times tables box.

DAILY – practicing times tables for 15 minutes.

Choose some ways to practice your 9 times tables today and throughout the week, but also remember to revise all the other tables you have learnt.

• We have made a folder of fun. timestable games using the Twinklgo website. To access

these games you can follow this link.

Access this lesson using pin code: CJ7980

at Twinkl Go

- Use the following link and choose the table you want to practise: <u>https://www.timestables.co.uk/</u>
- BBC times tables songs: <u>https://www.bbc.co.uk/teach/supermovers/times-table-</u>

collection/z4vv6v4

- Activelearn (Sandsearch, Scrapheap Scramble, Seaside Scuffle, Pesky Pets, Balloon Pop and Treetop Topple).
- Throw a dice and multiply this number by the table you are learning. You can throw 2 dice add these together and multiply so you practise all numbers up to the 12th multiple.
 - <u>www.TimesTables.me.uk</u>
 - Make a set of flash cards.
 - On one side of the card write the table e.g. 4 x 8 = and on the other side of the card write the answer. You can try working through the cards in order and then shuffling them. Or, you could make 2 sets of cards - one with questions and one with answers and match these up or play pairs games.

<u>Monday</u>

To Learn × and ÷ facts for the 9 times-table;

- Warm up maths game revise your 3 times tables. Play 'I say, you say' with somebody at home. Throw a ball to a partner and call a number (0–12), *I say four*. They multiply it by 3 and throw it back, *I say twelve*. Repeat, using multiples of 3 to 36. Divide the number by 3. Repeat this game for the 6s.
 - 2. Today you will be learning the 9 times tables.

Can you remember the finger trick to help you to remember the nines? See below for a poster to remind you. Try out the finger trick.

3. Complete the worksheet below on the 9 times table and looking for patterns.

4. There is a new game for you on activelearn called 'Scrapheap Scramble' and this will help you to practise the 9 times tables.

<u>Tuesday</u> To multiply by 10.

1. Maths warm up: follow this link to become a 9 times table super-mover. <u>KS2 Maths: The 9 Times Table - BBC Teach</u>

2. Can you remember how to multiply a number by 10? The following video explains this to you. You will need a pencil and paper as there will be some questions for you to answer as you watch the video. Make sure you pause the video if you need to. Follow the link and select the 1st video 'multiplying by 10'.

There is a place value grid below which may help you with this. Towards the end of the video, you will see a place value grid. Do you remember to multiply by 10 you move ONE PLACE LEFT on the place value grid?

Autumn Week 10 - Number: Multiplication & Division | White Rose Maths

- 3. Complete the worksheet below (Tuesday) on multiplying by 10.
- 4. Try to complete 15 minutes of times tables practise using the suggestions on the first page.

Wednesday- To multiply by 100.

- 1. Maths warm up: practise counting in tens, starting from a range of different numbers.
- Can you remember how to multiply a number by 100? We move TWO PLACES LEFT on our place value grid to multiply by 10. The following video explains this to you. You will need a pencil and paper as there will be some questions for you to answer

as you watch the video. Make sure you pause the video if you need to. Follow the link and select the 2nd video 'multiplying by 100'.

Autumn Week 10 - Number: Multiplication & Division | White Rose Maths

Here are some questions to talk about if you are able to:

How do the Base 10 help us to show multiplying by 100?

Can you think of a time when you would need to multiply by 100?

Will you produce a greater number if you multiply by 100 rather than 10? Why?

Can you use multiplying by 10 to help you multiply by 100? Explain why.

- 3. Complete the worksheet below (Wednesday) on multiplying by 100.
- 4. Try to complete 15 minutes of times tables practise using the suggestions on the first page.

<u>Thursday -</u> <u>To divide by 10.</u>

 Can you remember how to divide a number by 10? We are now dividing not multiplying, so we go the opposite direction on a place value grid - WE MOVE ONE PLACE RIGHT to divide by ten. The following video explains this to you. You will need a pencil and paper as there will be some questions for you to answer as you watch the video. Make sure you pause the video if you need to. Follow the link and select the 3rd video 'divide by 10'.

Autumn Week 10 - Number: Multiplication & Division | White Rose Maths

Here are some questions to talk about if you are able to:

What has happened to the value of the digits?

Can you represent the calculation using manipulatives? Why do we need to exchange tens for ones?

When dividing using a place value chart, in which direction do the digits move?

- 2. Complete the worksheet below (Thursday) on dividing by 10.
- 3. Try to complete 15 minutes of times tables practise using the suggestions on the first page.



Monday's maths

Learning the 9 Times Table the Easy Way!

What patterns can you see?

The number of nines is one **more** than the number of tens in the answer.

So, for 9×6 we know that the number of tens is one less than 6 (5) and we know that the tens and the ones add to make nine (4) so the answer must be 54! If you know your bonds to nine then the nine times table is easy!!

This is why the hand trick works!

The tens and ones add to make nine.

9	×	1	=	9
9	×	2	=	18
9	×	3	=	27
9	×	4	=	36
9	×	5	=	45
9	×	6	=	54
9	×	7	=	63
9	×	8	=	72
9	×	9	=	81
9	×	10	=	90
9	×	11	=	99
9	×	12	=	108



Open both hands, palms facing towards you so you can see all ten digits (fingers and thumbs). To work out 9 × 5 put down your 5th digit.

You now have 9 digits up - 4 digits to the left (4 tens, one less than the number of nines) and 5 digits to the right (number of ones to make 9).

Answer = 45





Monday 18th January

LO: Learn × and ÷ facts for the 9 times-table; identify patterns in the 9 times-table; describe and begin to explain patterns

Looking at patterns in the 9 times table.

- 1. Colour (lightly) over the multiples of 9.
- What do you notice about what the digits add up to?
- 3. What pattern do you notice? ______
- 4. Write down the multiples of 9 to 108. Without writing more, predict the next few multiples using the pattern you have identified.

Tricky Challenge:

5. Log on to activelearnprimary website and use the random number generator tool to get some numbers (2 and 3 digit) or throw 2 or 3 die to get a 2 or 3 digit number. Sort the into multiples of 9 and not multiples of 9 by adding the digits to see if they make 9.

I	2	3	4	5	6	7	8	q	10
П	12	13	14	15	16	17	18	١٩	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	qq	100
101	102	103	104	105	106	107	108	109	110
ш	112	113	114	115	116	117	118	119	120

Tuesday's maths

Tuesday 19th January

LO:to multiply by 10 and 100.

Fluen	cy 1
 value counters. value counters. Each row has Each row has a value counters. Each row has a value counters. Each row has a value counters. There are row The calculation is Use place value counters to calculate: 10 × 3 	vs. ×= 12 × 10
Draw place value counters to help you if you need to	-
Match each statement to the constraints of the statement to the statement to the constraints of the statement to the statement to the constraints of the statement to the statement to the constraints of the statement to the	10 10 10 10 10
8 pots each have ten pencils.	5 5 5 5 5 5 5 5 5 5
10 chickens lay 5 _ eggs each.	10 10 10 10 10 10 10 10
Reasoning and Problem Solving 1	Reasoning and Problem Solving 2
Always, Sometimes, Never If you write a whole number in a place value grid and multiply it by 10, all the digits move one column to the left.	Annie has multiplied a whole number by 10 Her answer is between 440 and 540 What could her original calculation be? How many possibilities can you find?

Wednesday's maths





20.01.21

Thursday's maths:



(plain	on to help you e	Write a calculation to help you explain each item.
rong?	what Alice did v	Can you explain what Alice did wrong?
Jrement?	e missing meas	Can you fill in the missing measurement?
~	220 mm	Height of a mug
43 mm	340 mm	Length of a book
16 cm	160 cm	Her height
2,200 cm	220 cm	Height of a door
After shrinking	Original measurement	ltem
:a potion ims naller! ;?	rland, Alice dran shrank. All the it ime ten times sr urements correc	While in Wonderland, Alice drank a potion and everything shrank. All the items around her became ten times smaller! Are these measurements correct?
olving 2	d Problem S	Reasoning and Problem Solving
smaller	Dora's number is ten times smaller than Jack's.	 Dora's num than Jack's
smaller res s or Mo's.	Jack's number is ten times smaller than Mo's. Alex's number is not ten times smaller than Jack's or Dora's or Mo's.	 Jack's num than Mo's. Alex's num smaller tha
st number) match each ve	Use the clues to match each vest number to a child.
	0 35	350
The numbers	n a race.	Four children are in a race. on their vests are:
olving 1	d Problem S	Reasoning and Problem Solving

Friday's maths:



LO: Solve problems involving converting from hours to minutes and minutes to seconds.

