## Information

Maths 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:
https://www.timestables.co.uk/
- BBC times tables songs: https://www.bbc.co.uk/teach/supermovers/times-tablecollection/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 $12^{\text {th }}$ multiple.
- www.TimesTables.me.uk
- Make a set of flash cards.
- On one side of the card write the table - e.g. $4 \times 8=$ 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.


## Monday

To Learn $\times$ and $\div$ facts for the 9 times-table;

1. 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 6 s .
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.

## Tuesday <br> To multiply by 10 .

1. Maths warm up: follow this link to become a 9 times table super-mover. KS2 Maths: The 9 Times Table - BBC Teach
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 $1^{\text {st }}$ 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.
2. 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 $2^{\text {nd }}$ 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.

## Thursday - To divide by 10.

1. 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 $3^{\text {rd }}$ video 'divide by 10 '.

Autumn Week 10 - Number: Multiplication \& Division $\mid$ 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.

## Friday

To Solve problems involving converting from hours to minutes and minutes to seconds.
Mr. Brown has made a short video to help you with this lesson. Look in our Year 4 area on the website.
Today you will be learning about hours, minutes and seconds.
Here are some things for you to discuss at home if you are unable to see the video.

What activity might last one hour/minute/second?
How many minutes are there in an hour?
How can we use a clock face to check? How could we count the minutes?
How many seconds are there in one minute? What could we use to check?
How many minutes in $\qquad$ hours? How many seconds in $\qquad$ minutes?

There is a worksheet for you to complete below.

## 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 $9 \times 6$ 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.

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

## The Hand Trick

Open both hands, palms facing towards you so you can see all ten digits (fingers and thumbs). To work out $9 \times 5$ put down your $5^{\text {th }}$ 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 $18^{\text {th }}$ January

LO: Learn $\times$ and $\div$ 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.
2. What do you notice about what the digits add up to? $\qquad$
3. What pattern do you notice? $\qquad$
4. Write down the multiples of 9 to 108 . Without writing more, predict the next few multiples using the pattern you have identified. $\qquad$

## 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 .

| 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 |
| 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 |
| 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |

## Tuesday's maths

Tuesday $19^{\text {th }}$ January
LO: to multiply by 10 and 100 .

## Fluency 1



| Reasoning and Problem Solving 1 | Reasoning and Problem Solving 2 |
| :--- | :--- |
| Always, Sometimes, Never | Annie has multiplied a whole number by <br> 10 |
| If you write a whole number in a place <br> value grid and multiply it by 10, all the <br> digits move one column to the left. | Her answer is between 440 and 540 |
|  | How many possibilities her original calculation be? |

Wednesday's maths


Thursday's maths:


Write a calculation to help you explai
each item.
than Jack's.


than Mo's.




## Friday's maths:

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


| Reasoning and Problem Solving 1 | Reasoning and Problem Solving 2 |
| :---: | :---: |
| Jack takes part in a sponsored silence. <br> He says, <br> If I am silent for five hours at 10 p per minute, I will raise £50 <br> Do you agree with Jack? <br> Explain why you agree or disagree. | Five friends run a race. <br> Their times are shown in the table. |
|  | Name Time |
|  | Eva 114 seconds |
|  | Dexter 199 seconds |
|  | Teddy 100 seconds |
|  | Whitney 202 seconds |
|  | Ron 119 seconds |
| Is she correct? Can you explain why? | Which child finished the race the closest to two minutes? <br> What was the difference between the fastest time and the slowest time? <br> Give your answer in minutes and seconds. |

