

Year 5 Home Learning – Week Beginning 15th June 2020 – Fairgrounds

	<u>Reading /</u> <u>SPaG</u>	<u>Maths</u>	<u>English</u>	<u>Topic</u>
Hi Year 5 - we hope you are all well and still managing to attempt some of the learning.				
<u>Science</u>				
There is only one topic activity for the week as we want you to take your time over it. You need to organise your investigation, make a prediction, carry it out and record your findings. You need to analyse your findings and reflect on any problems that you encountered.				
<u>Science knowledge</u>				
Unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. Can you identify the effects of air resistance which acts between moving surfaces?				
<u>There is no right or wrong way to carry out this investigation.</u>				
These Weblinks may help				
http://www.creativeeducation.co.uk/video/1399 Forces, friction and gravity 5:00 – 8:20				
; http://www.bbc.co.uk/education/clips/zpvs34j Umbrella to parachute;				
http://www.bbc.co.uk/education/clips/zsjd7ty - Air resistance.				
In <u>English</u> this week , your learning will be based on the first chapter of a story, <i>Banana Boy Slides Again</i> .				
If you would like to do any additional English learning, you can find a new activity each day here: https://www.pobble365.com/				
In <u>Maths</u> , we are recapping multiplication. Remember you can get extra Maths on BBC Bitesize etc.				
We hope you all have a lovely week, please don't forget to send your work for the Padlet. Many thanks, Mrs Ferreira, Mrs Hudson and Mrs Waters. x				

Monday

Spelling:

Continue to play games on Spelling Frame.

You could focus on these Y5/6 statutory spelling words this week:

according
achieve
exaggerate
excellent
queue
recognise

Reading

Show an enjoyment for reading by reading a book of your choice. Aim to read for at least 10 minutes per day. You could always use your Reading Record to

Maths

Write out your times tables (from 2-12) for 3,4,6,7,8 and 9 times tables. You can make a poster/cue cards etc to present them.

1 Complete the sentences to describe the multiplication.

Th	H	T	O
100	100	10	1
100	100	10	1
100	100	10	1

There are ones altogether.
 There are tens altogether.
 There are hundreds altogether.
 There are thousands altogether.

2,213 × 3 =

2 Complete the multiplication.
Use the place value chart to help you.

Th	H	T	O

	2	1	0	2
x				4

Reading Comprehension

Read Chapter 1 of Banana Boy Slides Again and answer these questions in your book. Remember to use full sentences and use evidence from the text.

- Write one thing you found funny in this chapter. Explain why.
- How was Ben a complete zero?
- Why is Ben bored?
- Why does the phrase, *Robots wrecked, baddies beaten, monsters mashed* sound good?
- Why does Ben put the phone down too quickly?

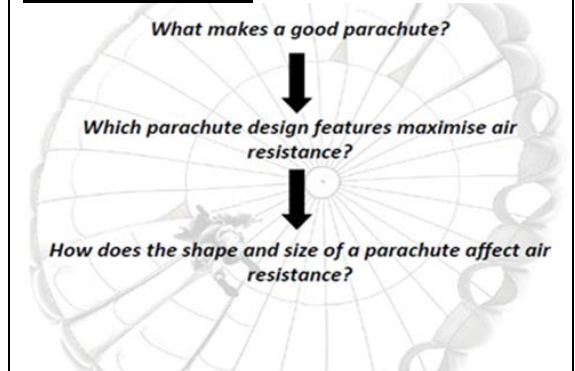
Why is the Banana Boy costume the one thing that Ben looks after?

Your Task:

We have received an email from the NHM recovery team saying that, having looked at satellite images, the only way to get into the remote region where a meteorite landed is via a parachute drop. You need to design a parachute that will work. You will carry out an investigation to test a different range of scenarios.

why do you think the recovery team will need a parachute? How do you think a parachute would change this and why?

Key Questions



You will need to identify the key aspect of your parachute and test each variable to ascertain the best material, the best size and the best length of string. You will need to plan methodically to ensure your testing is fair,

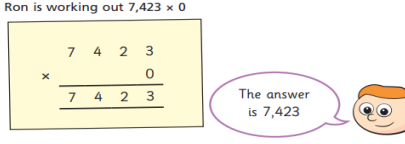
Tuesday

record what you have read.

Complete the multiplications

$$\begin{array}{r} 3126 \times 3 \\ 4812 \times 2 \\ 1502 \times 5 \end{array}$$

Ron is working out $7,423 \times 0$



Do you agree with Ron? _____
Did Ron have to use a column method? Is there a quicker way?

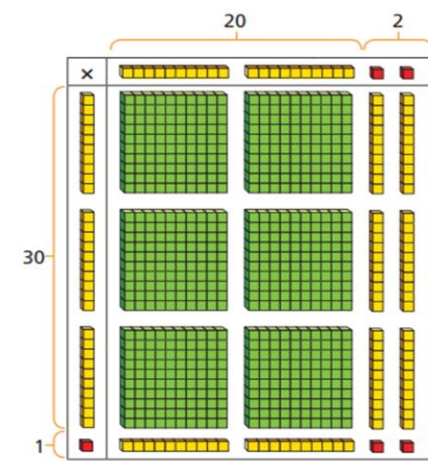
Work out these multiplications.

$$2,846 \times 2 = \square$$
$$2,846 \times 4 = \square$$
$$2,846 \times 8 = \square$$

What do you notice about the answers?

Kim is using base 10 to work out 31×22

Use Kim's model to help you complete the sentences.



There are ones altogether.

There are tens altogether.

There are hundreds altogether.

$$31 \times 22 = \square$$

Vocabulary

Find these words in the story. Write them in your book and explain what they mean.

- buzzing**
- chaos**
- crushed**
- grabbed**
- mouldy**
- splats**

Now write two new sentences for each word, making sure you use it correctly.

logical and the results are not unreliable.

Parachute remit:

- The parachute needs to create a slow and controlled descent
- The parachute needs to be made from a strong, windproof material

Equipment:

- Various plastic bags from small to bin liner size
- paper
- J-cloths
- Lego figure or other small object/figures weighted with modelling clay, blue tack or play dough or something similar
- String
- Scissors
- Sticky tape
- Stop watch
- Tape measure

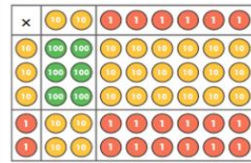
Possible variables you could investigate

1. Material of parachute:

- Does the material of the parachute increase or decrease the speed of descent?
- Does the material of the parachute increase or decrease the air resistance?

2. Size of parachute:

Use the place value counters to complete the multiplication grid and sentence.



x	20	6
30		
2		

$26 \times 32 = \square$

Use an area model to help you complete the multiplication.

a) $28 \times 14 = \square$

c) $35 \times 22 = \square$

x	20	8
10		
4		

b) $27 \times 16 = \square$

d) $45 \times 36 = \square$

x		

Complete the multiplications.

$21 \times 24 = \square$

$31 \times 25 = \square$

$18 \times 26 = \square$

- Does the size of the parachute increase or decrease the speed of descent?
- Does the size of the parachute increase or decrease the air resistance?

3. Length of parachute strings

- Does the length of the parachute strings increase or decrease the speed of descent?
- Does the length of the parachute strings increase or decrease the air resistance?

How will you make sure you complete a fair test for your investigation?

Wednesday

Complete these multiplications

6×6 7×9
 6×60 7×90

12×8 21×4
 12×80 21×40

32×3 48×3
 32×30 48×30

How did you work out your answers?

Try these multiplications:

Draw a cartoon picture showing Ben's dream about giant fruit. Write five noun phrases to describe what you can see in your picture. For example, *sticky strawberry splats*. See if you can make your noun phrases alliterate

Measuring and recording your results

There are three things you will need to measure; two need to stay constant and the third will be variable. Can you think what they are?

Answer: • *Weight in kg*

$$\begin{array}{ll} 52 \times 34 & 46 \times 64 \\ 22 \times 56 & 47 \times 63 \end{array}$$

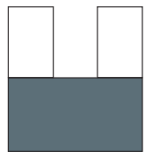
A machine prints 92 labels every minute. How many labels will it print in $\frac{3}{4}$ of an hour?

This challenge is tricky - so give it a go

Here are two rectangles.



a) What is the area of this compound shape?



b) What is the area of the shaded part?



(have the same letter at the start of each word).

Activity 2

Carefully rewrite these sentences, including capital letters in the correct places.

1. ben norton had always wanted to be a superhero.
2. his sister millie was with mum having breakfast.
3. miss crook never believed ben's excuses.
4. banana boy was going to save the town of splatford.

ben's favourite comic was called *galactic defenders*.

- *Height of drop in cm*
- *Speed of descent in seconds*

Record your results in a table - can you draw one yourself? Think about what you need to record each time. Will you need more than one table, or can you record all of your test results in just one?

Your findings

What have you found out? Can you make any conclusive observations? Can you make any recommendations? Record your recommendations in a video message for your team on the ground to share on Padlet. Remember to identify the best size, material and length of strings... and back up your recommendations with hard evidence!

Thursday

Complete these multiplications

$$\begin{array}{ll} 13 \times 3 & 25 \times 4 \\ 13 \times 30 & 25 \times 40 \\ 130 \times 2 & 204 \times 4 \\ 130 \times 20 & 204 \times 40 \end{array}$$

Prediction
Where is Ben's Banana Boy costume?

You have three options for where the costume could be:

Improvements

How could you have made your investigation more accurate? Is there any other design feature that you could have investigated?

Complete the multiplications.

a)

		2	3	1	
	x			1	3
		6	9	3	
		2	3	1	0

(231 × 3)
(231 × 10)

b)

			5	1	2	
	x			2	4	
		2	0	4	8	
		1	0	2	4	0

(×)
(×)

- A. It's in the washing machine.
- B. Ben's little sister, Millie, is wearing it.
- C. It's in pieces on the table.

Write a paragraph to explain which option you would choose. What do you think will happen next in the story following your choice?

Write $>$, $<$ or $=$ to complete each statement.

a) 146×64 164×46

135×53 153×35

b) What do you notice?

Does this always happen?

Miss Rose is ordering some pencils.

She orders 17 of pack A, 14 of pack B and 4 of pack C.

Pack A



Pack B



Pack C



How many pencils does Miss Rose order?

Each pencil costs 16p.

How much does Miss Rose spend on pencils?

Friday

Complete the multiplication.

			1	2	3	4			
	x				2	1			
			1	2	3	4			
			2	4	6	8	0		

(1,234 ×)

(1,234 ×)

Tommy is calculating $1,234 \times 26$

a) Complete his working out.

			1	2	3	4			
	x				2	6			
			7	4	0	4			
			2	4	6	8	0		

(×)

(×)

b) Fill in the grid to check Tommy's working is accurate.

You may use place value counters to help.

x	1,000	200	30	4
20				
6				

Complete the following long multiplications

- a) 3456×2
- b) 3783×22
- c) 6734×5
- d) 6948×55

Superhero Advert

The superhero business has been slow for Ben. Help a superhero of your choice find more superhero action by designing an advert for their services. What skills might your superhero have that people could need? What jobs could they do to help people out?

Design a catchy poster advert, including a picture, description of skills/services and maybe a catchy slogan!

Create your investigation presentation.

WORD GLOSSARY

Acceleration

an increase in speed

Air resistance

a force which resists motion through air

Data

bits of information you have gathered about something you are investigating

Deceleration

a decrease in speed

Drag

a force which resists motion through a fluid, a fluid being anything that can flow e.g. liquids, gases

Evidence

information or measurements you use to help you come to a conclusion

Friction

a force which resists the motion of objects sliding over each other

Force

something which will affect either the movement or shape of an object

Gravity

attraction between physical objects, easily noticeable when one of the objects is massive, such as the Earth

Motion

a move or change in position

Variables

something which could change in value, such as time or temperature

Water resistance

a force which resists motion through water

Weight

the force on an object due to gravity

Wednesday

Complete the multiplications.

a) $6 \times 6 = 36$

d) $7 \times 9 = 63$

$6 \times 60 = 360$

$7 \times 90 = 630$

b) $12 \times 8 = 96$

e) $21 \times 4 = 84$

$12 \times 80 = 960$

$21 \times 40 = 840$

c) $32 \times 3 = 96$

f) $48 \times 3 = 144$

$32 \times 30 = 960$

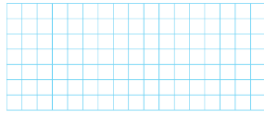
$48 \times 30 = 1,440$

How did you work out your answers?

Work out the multiplications.

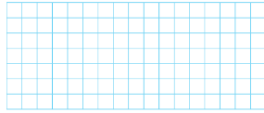
a) $52 \times 34 = 1,768$

c) $46 \times 64 = 2,944$



b) $22 \times 56 = 1,232$

d) $47 \times 63 = 2,961$



A machine prints 92 labels every minute.
How many labels will it print in three-quarters of an hour?

Here are two rectangles.



a) What is the area of this compound shape?



b) What is the area of the shaded part?



Compare methods and answers with a partner.
What is the same and what is different?

Thursday

Complete the multiplications.

a) $13 \times 3 = 39$

c) $25 \times 4 = 100$

$13 \times 30 = 390$

$25 \times 40 = 1,000$

b) $130 \times 2 = 260$

d) $204 \times 4 = 816$

$130 \times 20 = 2,600$

$204 \times 40 = 8,160$

Complete the multiplications.

		2	3	1
x			1	3
<hr/>				
		6	9	3
	2	3	1	0
<hr/>				
	3	0	0	3

(231 × 3)
(231 × 10)

			5	1	2
x				2	4
<hr/>					
		2	0	4	8
	1	0	2	4	0
<hr/>					
	1	2	2	8	8

(512 × 4)
(512 × 20)

Write >, < or = to complete each statement.

a) $146 \times 64 > 164 \times 46$

$135 \times 53 > 153 \times 35$

b) What do you notice?

Does this always happen?

Miss Rose is ordering some pencils.

She orders 17 of pack A, 14 of pack B and 4 of pack C.

Pack A



Pack B



Pack C



How many pencils does Miss Rose order?

697

Each pencil costs 16p.

How much does Miss Rose spend on pencils?

£11.52

Friday

		1	2	3	4	
x				2	1	
		1	2	3	4	
		2	4	6	8	0
		2	5	9	1	4
						1

(1,234 × 1)

(1,234 × 20)

Tommy is calculating $1,234 \times 26$

a) Complete his working out.

		1	2	3	4	
x				2	6	
		7 ₁	4 ₂	0 ₂	4	
		2	4	6	8	0
		3	2	0	8	4
						1

(1,234 × 6)

(1,234 × 20)

b) Fill in the grid to check Tommy's working is accurate.

You may use place value counters to help.

x	1,000	200	30	4
20	20,000	4,000	600	80
6	6,000	1,200	180	24