



## Important Information



*"Oak National Academy is a new collection of high-quality lessons and online resources. Backed by the Government, it has been created in response to the coronavirus lockdown.*

*Their online classroom offers free access to great teachers, delivering video lessons, quizzes and worksheets. Available for both primary and secondary levels, it covers a range of subjects. All of the lessons are ordered so your child can learn along a clear plan. They'll provide new lessons and resources each week.*

*Oak National Academy will fit alongside other resources such as BBC Bitesize to offer a structure for the day for children until schools fully reopen.*

*Oak National Academy was built at speed; at present their resources are for pupils who usually access their schools' curriculum in mainstream education, from reception through to year 10, without significant support or adaptation. They're currently working on providing support for teachers working with pupils with additional needs, and teachers based in specialist settings. Next week they hope to launch materials for pupils not able to access all aspects of their current offer." Information taken from the Oak National Academy website (<https://www.thenational.academy/information-for-parents-pupils/> )*

The Oak National Academy lessons can be accessed here: <https://www.thenational.academy/online-classroom>

**As you are aware, at Victoria Dock Primary School we provide a home learning pack every week which is created by our class teachers. Although we have these plans already in place, we understand that some families may prefer to work from the materials made available through the Oak National Academy. This is absolutely fine and we are thrilled to see so many children learning at home and taking the opportunity to also do all kinds of things at home which are not usually taught in the classroom.**

**Feel free to continue to use our home learning grids (like the one below) or the lessons provided by the Oak National Academy. Either way, we would love you to keep in touch and show us the wonderful things you are doing at home, using Seesaw, Clasdojo or Twitter.**

**Stay safe and we look forward to returning to school to see everyone's smiling faces.**



**Home Learning Grid  
Year 6**

Week Commencing – 27.04.20

**Work to be completed in home learning books**

	Monday	Tuesday	Wednesday	Thursday	Friday
<b>Spelling/ Fast Maths</b>	<b>Fast Maths</b> Go to <a href="https://kahoot.it">kahoot.it</a> and use code 08797567	<b>Spelling</b> Go to <a href="https://kahoot.it">kahoot.it</a> and use code 0975313	<b>Fast Maths</b> Go to <a href="https://kahoot.it">kahoot.it</a> and use code 03331137	<b>Spelling</b> Go to <a href="https://kahoot.it">kahoot.it</a> and use code 06654719	<b>Fast Maths</b> Go to <a href="https://kahoot.it">kahoot.it</a> and use code 01916980
<b>Reading</b>	<b>First News</b> See the First News article below and have a go at the questions.	<b>Crater Lake</b> Read pages 83-90 and answer the quick questions at <a href="https://kahoot.it">kahoot.it</a> and using code 08014081	<b>Crater Lake</b> Re-read pages 83-90 and complete the inference task below.	<b>Crater Lake</b> Enjoy reading chapter 8 of Crater Lake. If you must do some work, send me what you think of it so far.	<b>First News</b> See the First News article below and have a go at the crossword.
<b>Writing</b>	<b>Crater Lake Create-a-character (Character description)</b> Use the examples <a href="#">here</a> to write your own character description of a new character who would fit in well with the group of children with Lance. Think about what special skills or attributes they would have which would make them useful to the group, just like Katja and her climbing abilities. You might even want to make a comic strip about them using their skills to help, like Katja climbing the drainpipes and wall.				<b>100 Word Challenge</b> See below (or on Seesaw activities) for the 100 Word Challenge for this week.
<b>Maths</b>	<b>Angles</b> Complete the 'Angles in Special Quadrilaterals' task below. Click <a href="#">here</a> for video tutorials and answers (no cheating).	<b>Angles</b> Complete the 'Angles in Regular Polygons' task below. Click <a href="#">here</a> for video tutorials and answers (no cheating).	<b>Problem Solving</b> Complete the 'Problem Solving' task below. Click <a href="#">here</a> for video tutorials and answers (no cheating).	<b>Problem Solving</b> Complete the 'Angles in a Triangle – Missing Angles' task below. Click <a href="#">here</a> for video tutorials and answers (no cheating).	<b>Challenge</b> Can you set a new high score on Timetable Rockstars <a href="#">here</a> or Mangahigh <a href="#">here</a> ?
<b>Challenge</b>	<b>Writing</b> Take a look <a href="#">here</a> for some ace sentence stacking lessons for you to do some creative writing.	<b>Art</b> Join in Rob Biddulph's live art workshop and competition at 10AM <a href="#">here</a> .	<b>BBC Bitesize</b> Take a look at the information at the end of this pack to find out how to access a wealth of resources and opportunities on the new BBC Bitesize website.		

HAPPY NEWS

# HAIR-LARIOUS HAIRDOS

**A HAIRDRESSER in America has found a way to keep up-to-date with her skills while her salon is closed.**

While Geoff Clark works from home on his computer, his girlfriend Heidi Lee Oley styles his long hair in a variety of ways, often mimicking famous characters from popular culture.



Geoff's hair has been styled to look like Princess Leia from Star Wars, Poppy from Trolls and children's book icon Pippi Longstocking.

Heidi said of the hairdressing industry: "We don't have clients, we don't get paid, many are self-employed. I wanted to be a glimmer of light during the shadows of the uncertainty of our industry."

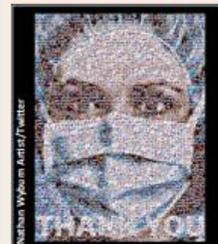
Heidi added that Geoff "has a heart of gold for letting me do this and post it".

## KEEPING YOUR DISTANCE

**A FATHER and son duo have invented a funny way to make sure people are keeping 2m apart from each other – the Social Distancing Circle!**

The son, who goes by the name impatman on video-sharing site TikTok, shared footage of their exploits. The pair linked together pipes to make the circle, then covered it with a tarpaulin. A video of them wearing the device and taking a wander in the park has been viewed millions of times.

"There were a few confused people," admitted impatman. His dad added: "Some of them thought we were flying a big kite, others thought it was a trampoline."



### CARDIFF, UK

**ARTIST and former Britain's Got Talent semi-finalist Nathan Wyburn has created a collage tribute to NHS workers, using photos of more than 200 NHS staff who are working on the frontline of the coronavirus battle.**

HAPPY NEWS

GLOSSARY

- exterminate** – To destroy or get rid of something
- NHS** – National Health Service
- social distancing** – Staying two metres away from other people
- tarpaulin** – A waterproof material used as a cover
- Dalek** – A robot character from *Doctor Who*
- duo** – Two people working together
- self-isolating** – Remaining inside away from others
- tribute** – In someone's honour
- patrolling** – Walking around, monitoring or guarding an area
- collage** – A piece of art created by using different materials stuck together
- catchphrase** – A well-known saying or phrase
- coronavirus** – A type of virus
- 'lifting people's spirits'** – To cheer people up
- industry** – Turning raw materials into a finished product
- mimicking** – Copying
- uncertainty** – When you are not sure about something

## SELF-ISOLATE!

**FANS of Doctor Who will be familiar with the terrifying Daleks and their famous catchphrase, "EXTERMINATE!"**

Now they're taking to the streets of Whitby! A Dalek was spotted patrolling the local area, warning: "All humans must self-isolate by order of the Daleks!"

The dustbin-shaped robots first appeared on TV way back in 1963. Many people still remember being scared of them when they were little.

One person online wrote: "Am I the only one to feel a shiver of fear watching this? As a child I would most certainly have been hiding behind the sofa." Another user agreed: "I'm not going to argue with a Dalek!"



THE Taylor family spent hours colouring every brick of their terraced house in chalk to create a rainbow effect to "lift people's spirits" during the coronavirus lockdown.

- Look at the article 'Cardiff, UK'.
- 1. What did the artist Nathan Wyburn use to create his collage?
- 2. Explain the message the artist is trying to get across and why.
- 3. The journalist uses the word 'tribute' to describe the piece of art. What does the word 'tribute' mean?
- Look at the article 'Somerset, UK'.
- 4. Why did the Taylor family colour in the bricks of their house?
- 5. What has the rainbow become a symbol of?
- Look at the article 'Hair-larious Hairdos'.
- 6a. Which is your favourite hairdo and why?
- 6b. What character's hairstyle do you think the hairdresser should try next?
- 7. Give two reasons why hairdresser Heidi has styled Geoff's hair in this way.
- Look at the article 'Self-Isolate!'
- 8. Which two language features do the words 'self-isolate' and 'exterminate' share?
 

<input type="checkbox"/> Rhyme	<input type="checkbox"/> Onomatopoeia
<input type="checkbox"/> Alliteration	<input type="checkbox"/> The same number of syllables
- Look at the article 'Keeping your distance'.
- 9. Describe how the 'Social Distancing Circle' invention works.
- 10a. Were you surprised by the size of the invention when you looked at the photograph? Explain your thoughts.
- 10b. Can you think of another idea or invention that could be created to help while social distancing rules apply? Explain your idea either in a short paragraph or with a diagram and annotations.

## Reading (Wednesday)

What do you think of Lance's plan for what to do next? Do you think this is the right thing to do? Think about the following things before writing your own, developed answer:

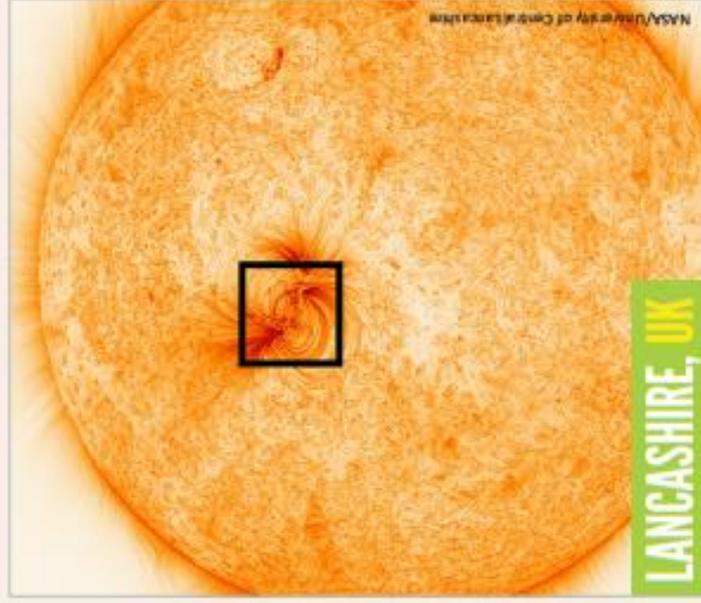
- Should they try to rescue Trent?
- Should they use the tannoy?
- Should they go back into the centre?
- Is the fridge the right idea?
- What else do you think?

Use evidence in your answer, to backup your opinions.

These stories are from pages 5 and 9 of *First News*. Read the stories, and then try the puzzle. To help you, we have underlined the answers to the crossword puzzle clues in the stories – but you will need to match the correct word with each clue!



SPACE NEWS IN PICS



LANCASHIRE, UK

**RESEARCHERS at the University of Central Lancashire (UCLan) have revealed detailed, high-resolution images of the sun.**

They were taken by NASA's High-Resolution Coronal Imager telescope (or Hi-C for short) and show the sun's outer layer in detail for the first time. Fine magnetic threads filled with extremely hot, million-degree plasma can be seen in the stunning pictures.

THE HUNGRY GALAXY

**THIS spiral galaxy, known as NGC 4651, contains what American space agency NASA calls "a violent secret".**

A spiral galaxy is, as the name suggests, a swirling collection of stars and gas, just like our own Milky Way. Most galaxies are spiral, but some are known as elliptical and irregular. The middle of a spiral galaxy is thought to contain a super-massive black hole.

So what is this "violent secret"? NASA experts think NGC 4651 has consumed another smaller galaxy! It gobbled up its neighbour, though NASA isn't sure when.

The Hubble Space Telescope took the picture below, but it can be observed with a household telescope too, even though it's 35 million light years away!

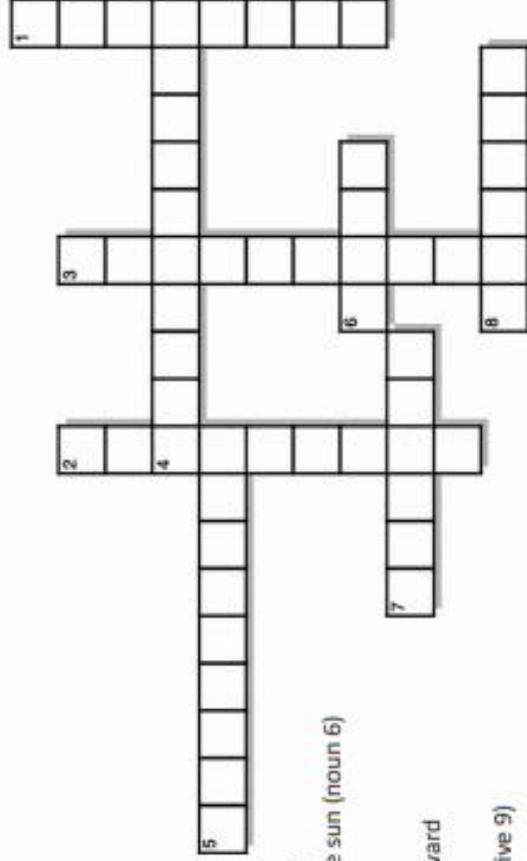


ACROSS

- 4) See 6 across
- 5) An instrument that allows people to see distant objects (noun 9)
- 6 and 4) Showing a large amount of detail in a photograph (adjective 4-10)
- 7) A group of stars, gas and dust particles that move together through the universe, eg. the Milky Way (noun 6)
- 8) A very hot gas in the outer layer of the sun (noun 6)

DOWN

- 1) Able to pull certain types of metal toward itself (adjective 8)
- 2) Not the usual or regular shape (adjective 9)
- 3) Oval shaped (adjective 10)



## Writing (Monday-Thursday)

### Model texts

#### Opening the Fridge

Slowly, Ewan peeped through the crack in his door. All was black. He took a step out. He could hear distant snoring as he ~~crept~~ crept across the landing. As his heart raced he stared into the darkness; he could hear the fridge urging him on-willing him to move. Now the stairs. The tricky bit. Suddenly a THUD!... He raced down the creaking stairs—even the seventh one that makes an ear-splitting creak noise. He could see the white rectangle straight ahead of him. Then he opened it. He took a quick glance and saw the chocolate digestives. ~~Then~~ He could feel a pair of eyes watching her in the darkness. Who was it? Had he been seen? His eyes darted around the room, his heart in his mouth. He grabbed the biscuits and ran for it.

"Ewan!" echoed a voice.

#### Sneaking Downstairs

I lay under the covers, staring at the ceiling, my stomach empty. Slowly I got out of bed and crept towards my door. The handle shimmered in the darkness, urging me to turn it. My hand quivered as the brass handle turned and made a 'click'. I jumped. Shadows crept across the landing while I nibbled at my nail. My parents' room's door creaked and I bolted down the stairs—including the seventh one that makes an ear-splitting thud when you step on it. I stared at the human-eating fridge and my legs turned to jelly as I tiptoed towards it.

I reached out and...

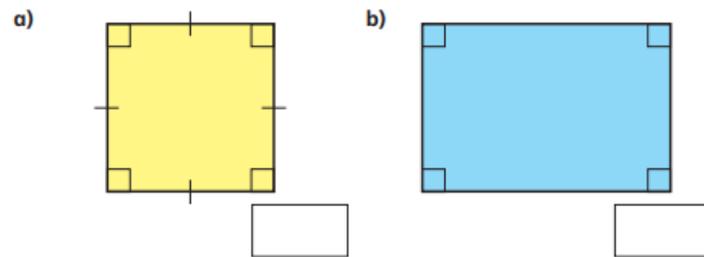
## Writing (Friday)

Welcome to our fourth 100 Word Challenge - a writing competition. You can write whatever you want, inspired by the picture below. You must write no more than 100 words so treat every word like it is gold. Upload whatever writing you do, either a photo or submitted as a Seesaw note, and a winner will be chosen at the end of the school day on Friday. You could write a description, a story, a newspaper article (or part of) or anything you would like at all. Have fun.



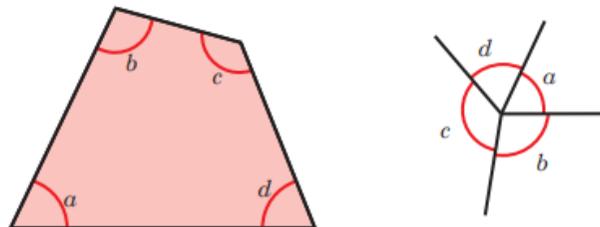
# Angles in special quadrilaterals

1 Work out the sum of the angles in each shape.



What do you notice?

2 The diagrams show the four vertices of a quadrilateral arranged around a point.

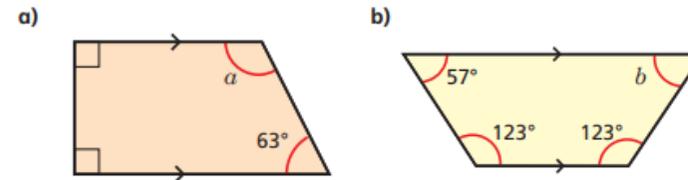


What do the diagrams illustrate about the sum of the angles in a quadrilateral?

Complete the sentence.

Angles in a quadrilateral \_\_\_\_\_

3 Work out the size of the unknown angle in each trapezium.

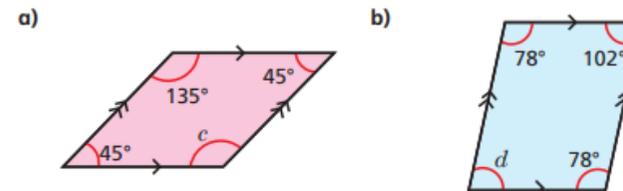


$a =$

$b =$

c) What is the same and what is different about the trapeziums?

4 Work out the sizes of the unknown angles.



$c =$

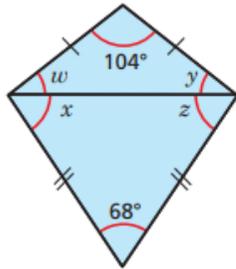
$d =$

c) What do you notice about opposite angles in a parallelogram?

\_\_\_\_\_

5 Two isosceles triangles are joined to form a kite.

a) Work out the sizes of the unknown angles.



$w =$    $y =$    $x =$    $z =$

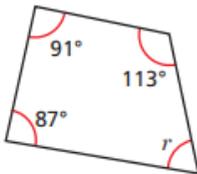
b) Work out  $w + x$ .

c) Work out  $y + z$ .

What do you notice? Talk about it with a partner.

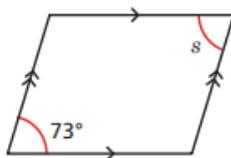
6 Work out the sizes of the unknown angles.

a)



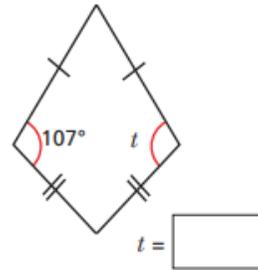
$r =$

b)

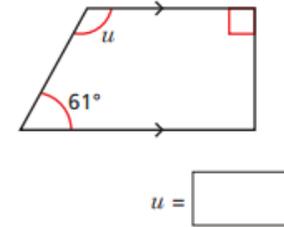


$s =$

c)



d)



Compare your reasoning with a partner.

7 Teddy is drawing a quadrilateral.

My quadrilateral has exactly three right-angles.



Is Teddy's quadrilateral possible? \_\_\_\_\_

Explain your answer.

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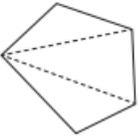
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## Angles in regular polygons

- 1 The sum of the interior angles of a triangle is  $180^\circ$ .

Split the polygons into triangles to work out the sum of their interior angles. Your lines should not overlap.

The first one has been done for you.

a)  number of sides =   
 number of triangles =   
 $3 \times 180 =$

The sum of the interior angles of a pentagon is

b)  number of sides =   
 number of triangles =   
  $\times 180 =$

The sum of the interior angles of a hexagon is

c)  number of sides =   
 number of triangles =   
  $\times 180 =$

The sum of the interior angles of a heptagon is

What do you notice about the number of sides compared to the number of triangles?



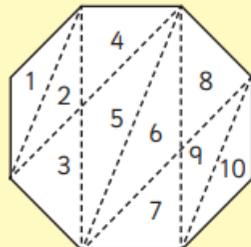
- 2 Complete the table.

Shape	Number of sides	Number of triangles	Sum of interior angles
quadrilateral	4	2	$360^\circ$
pentagon			
nonagon			
decagon			
	6		
		6	
			$1,800^\circ$

Compare answers with a partner.



- 3 Dani is working out the sum of the interior angles of a polygon. Here are her workings.



$10 \times 180 = 1,800^\circ$

Do you agree with Dani? \_\_\_\_\_

Explain your answer.



4 Rosie, Amir and Eva are drawing polygons.

a)



I have split my polygon into four triangles.

Rosie

What polygon has Rosie drawn? \_\_\_\_\_

b)

The sum of the interior angles of my polygon is  $1,080^\circ$ .



Amir

What polygon has Amir drawn? \_\_\_\_\_

c)



My polygon has more sides than Rosie's but fewer than Amir's.

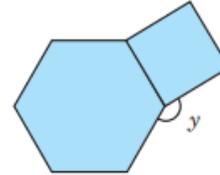
Eva

What is the sum of the interior angles of Eva's polygon?



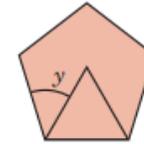
5 Each compound shape is made up of regular polygons. Work out angle  $y$  in each case.

a)



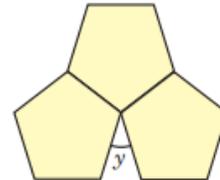
$y =$

d)

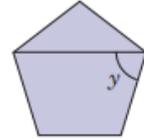


$y =$

b)



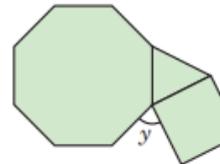
e)



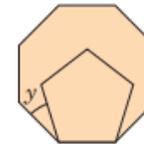
$y =$

$y =$

c)



f)



$y =$

$y =$



1 A car park is full.

- $\frac{1}{3}$  of the cars leave
- 60% of the remaining cars are red.



There are 174 red cars.  
How many cars left the car park?

2 Mo has some red and green sweets.

- He eats  $\frac{1}{3}$  of the sweets.
- $\frac{3}{4}$  of the sweets left over are green.



- Mo buys himself 30 more green sweets.

There are now 162 green sweets.  
How many sweets did Mo start with?

**3** Eva has £6.05 in a moneybox.  
She only has 20p, 10p and 5p coins.  
For every two 10p coins in the box,  
Eva has one 20p coin and three 5p  
coins.

How many of each coin does Eva  
have in her moneybox?



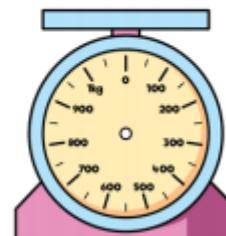
**4** Dexter has to make the scales read  
between 250 g and 300 g.

He only has 10 g, 25 g and 50 g  
weights.

He has to use at least one of each  
weight.

For every three 10 g weights on  
the scales, Dexter uses one 25 g  
weight.

What combinations  
could he use?



1 A rectangle is cut into two pieces.



The area of B is  $\frac{2}{7}$  of the area of the rectangle.

The area of A is  $36 \text{ cm}^2$  greater than the area of B.

What is the length of the rectangle?

2



The area of B is 40% of the area of the rectangle.

A is cut in half to make shape C and D.

The area of B is  $8 \text{ cm}^2$  greater than the area of C and D.

What is the area of the whole rectangle?

3 Tommy is getting a taxi home.

The taxi company charges at the following rate.

Taxi Fares	
First 5 mins	£3.80
Next 5 mins	£3.10
Every following minute	40p

The taxi leaves school at 3.47 p.m.

It arrives at Tommy's home at 16.04

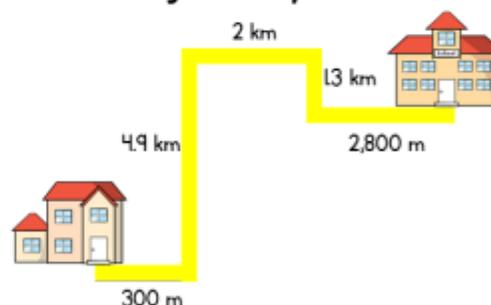
How much does the fare cost?

4 Eva is getting a taxi home.

The taxi company charges at the following rate.

Taxi Fares	
First 3 km	£3.80
Next 5 km	£3.10
Every following km	40p

This is her journey home.



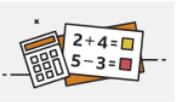
How much does the fare cost?

## Other Fun Stuff

Take a look at the new BBC Bitesize website which focuses on home learning opportunities. Click the top image below to take you to the daily lesson page full of things to do each day. Keep a look out for some fab video lessons we are expecting including Geography lessons by David Attenborough! Click the bottom image below to take you there and explore whatever you are interested in at your own pace.

## Year 6 lessons

 <p><b>24 April: English</b></p> <p>Reading lesson: <b>To Be a Cat by Matt Haig</b></p> <p>24 April - Reading lesson: To Be a Cat by Matt Haig</p> <p>ENGLISH</p>	 <p><b>24 April: Maths</b></p> <p>Week 1 - Challenges</p> <p>24 April - Weekly Maths challenges!</p> <p>MATHS</p>	 <p><b>24 April: Wellbeing</b></p> <p>Starting secondary school</p> <p>24 April - Helping children think about the transition to secondary school</p> <p>WELLBEING</p>
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Art and Design	Computing	Design and Technology	English	French	Geography
					
German	History	Italian	Mandarin	Maths	Modern Foreign Languages
					
Music	Physical Education	PSHE and Citizenship	Religious	Science	Spanish

