

If you are in school this week, then your 3 day home learning is outlined below

Day 1 - Famous Bridges

Check out the famous bridges. <http://www.pbs.org/wgbh/buildingbig/bridge/index.html>

Draw a table and select six famous bridges. Fill in the information using the vital statistics details.

Choose your favourite bridge - convince someone that this bridge is the best! Is it the longest? The most expensive? Find out more about this bridge and make a fact file of interesting facts.

Name of Bridge	Location	Completion Date	Cost	Length	Type	Purpose	Materials	Longest Single span	Engineer

Geography - Where are bridges found in Wigan? - Explore your local area

Maths Problems

I want to drive to Europe's largest sweet store which is 1535 miles away. I drive 249 miles and stop at the services for a cup of coffee. How many more miles do I have to drive?

I paid £1 for a bag of sweets. There are 25 sweets in the bag. How much did one sweet cost?

Bars of chocolate cost 52p. How many bars of chocolate can I buy with £10?

Small pick-n-mix: £1.20
Large pick-n-mix: £1.75
Lollies: 23p
How much does it cost for a large pick- n- mix and two lollies?

Erica and Evelyn have 468 sweets. They share their sweets equally between them. How many sweets will they each receive?

A jar holds 1395 sweets. If the shopkeeper sells 425 sweets, how many sweets are left in the jar?

Reading - 1 Reading Plus story but if you can't access that then read a book/magazine/website for 15 minutes

Maths Activity - 15 minutes TT Rockstars but if you can't access that, then test yourself on your tables. Make 2 piles of cards numbered 1-12. Draw a number from each pile and multiply together.

PE Routine - a 15 minute exercise routine - can you make each day different?

Day 2 Bridges in Art



Find out about Claude Monet. He is famous for his painting featuring a bridge.

<https://www.tate.org.uk/kids/explore/who-is/who-claude-monet>

Can you recreate this image as a collage? Use as many natural things that you can find. This video may help to inspire you.

https://www.youtube.com/watch?v=9i_xrOnmJ_4&feature=emb_title

Science - Watch an episode of Springwatch

<https://www.bbc.co.uk/programmes/b007qgm3/episodes/player>

Maths Problems

Jian had 120 sweets in a bag. While walking home, the bag developed a rip and 65 sweets dropped on the floor. How many sweets were left in the bag?

Toffee: £1.28
If I buy a bar of toffee with a £5 note, how much change will I receive?

A lolly costs 39p. How much would it cost for 10 lollies?

Penny wants to buy two jars of sweets that cost £16.75. She has saved £9.85 so far. How much more does she need to save before she can buy the two jars of sweets?

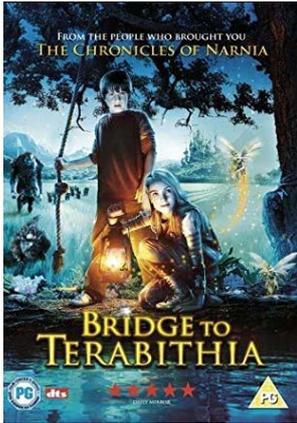
A bar of chocolate weighs 184 grams. A bag of gummy bears weighs 59 grams. What is the difference between the two weights?

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Day 3 - Film day



Watch this film. The story deals with the issue of bullying.

Design a poster to show how we can beat the bullies.

Write a film review.

A tale about two children who invent a secret world. Bullied at school, and with worries at home, young Jesse Aaron (Josh Hutcherson) sets his heart on being the fastest runner in the 5th grade. When the day of the race finally arrives however, his dream is shattered when new girl in school, Leslie Burke (Anna Sophia Robb), beats him to the tape. Despite this initial setback, the pair soon realise they have a lot in common, and a friendship develops. Discovering that they both share creative talents, (Jesse loves to draw, while Leslie is a keen storyteller), they invent the magical kingdom of Terabithia, a fantasy world reached by swinging on a rope over a stream near their homes. Once inside Terabithia, they become the rulers of all they see, embarking on magical

adventures, fighting evil, and learning how to triumph over bullies.

Music - Enjoy the weekly activity posted on the website

Maths Problems

The shopkeeper wanted to know how many chews he had left. He had 435 lemon chews, 423 cola chews and 130 liquorice chews. What is the total number of chews?

A 1kg bag of sweets costs £15.98 and a jar of sweets costs £4.59 less. How much does the jar of sweets cost?

Layla had a bag of 120 sweets. She gave her sister 65 of them. How many sweets did she have left?

Maddie had 435 grams of chocolate fudge. Tariq had 238 grams of mint fudge. How many more grams of fudge did Maddie have than Tariq?

100g of sherbet: £60p
If I want 1500g of sherbet, how much would it cost?

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PE Routine - a 15 minute exercise routine - can you make each day different?

If you are not in school this week, then your home learning is the 3 days outlined above and then the 2 days detailed below (this is the learning that we will be completing in school).

Day 1 - Different types of bridges

Read the information about different types of bridges.

Write ten questions about the information and then ask someone to answer them.

<https://www.twinkl.co.uk/resource/cfe2-d-152-cfe-types-of-bridges-fact-sheets>

<https://ourpastimes.com/types-of-bridges-for-kids-13583104.html>

Watch the clip about the materials used to build bridges

<https://www.bbc.co.uk/bitesize/clips/zjvfb9q>

Computing - Play four games - <https://blockly.games/>

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PE Routine - a 15 minute exercise routine - can you make each day different?

Maths Problems

- 1) Use the bar model to help you find the answers to these questions.



I am up to page 127 in my 'Sweets and Treats' book. I need to read 96 more pages in order to be halfway through my book. How many pages does my book have altogether?

127	96
$\frac{1}{2}$ book =	



book = _____	book = _____
$\frac{1}{2}$ whole book = _____	

- 2) Here is a bar model to represent three unknown numbers.

A	
B	C

- When B and C are added together, they make A.
- B is twice the value of C.
- A is a number between 100 and 200.

Give three possible values for each of A, B and C.

- 3) Answer these problems in words by thinking about the key information in the question.

- a) 168 parents watched the performance of a class play on Monday evening. On Tuesday evening, there were 29 fewer parents watching the performance. How many parents altogether watched the performances?
- b) The school hall is normally able to seat 350 people. There are 10 rows of seats with 35 seats in each row. Tonight, it can only fit in 9 rows of seats. If all of the above parents came tonight, would there be any seats left over?
- c) Megan, Sadie and Ola have a combined age of 81. The combined age of Megan and Sadie is 52. If Megan is 24, how old must Sadie and Ola be?
- d) The 'Healthy Scrumptious Snacks' cafe has just opened. It is looking at how much money it made in sales of food and drinks in the first two months. It sold £9456 worth of food and £3567 worth of drinks in the first month. In the second month, it made £380 less from food sales and £650 less from drinks sales than in the first month. The cafe's target was to sell £26 500 worth of food and drinks in the first two months. How much more did they need to sell to meet their target?

Day 2 - Design and build a bridge

Play the bridge game. Can you work out which bridge suits each location?

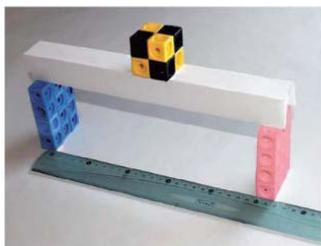
<http://www.pbs.org/wgbh/buildingbig/bridge/challenge/multi/meeting.html>

Try building your own bridges. You can follow these plans or use equipment you can find. What's the longest span you can make? Can it carry a tin from the cupboard?

Bridges are everywhere; over roads, over rivers and canals, spanning estuaries and joining islands to the mainland.

Sometimes bridges have to span great distances.

The **Humber Bridge** held the world record, 1410m, for the longest single span suspension bridge for 17 years until 1998.



Photos: Peter Smith Associates

Build the longest bridge you can from a single sheet of A4 paper.

It has to support a block of 8 cubes at its centre.

You may use scissors but no glue, sticky tape or other materials.



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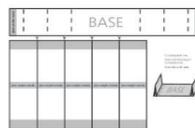
PE Routine - a 15 minute exercise routine - can you make each day different?

Engineers are challenged to make structures which are strong, light and efficient.

They use **triangulation**, **suspension** techniques and **arches** to achieve this.



Lendal Bridge



Make a bridge from card using the cut-out sheet



Photos: Peter Smith Associates

How many cubes can you place near the centre before the bridge collapses?

What happens when you change the number of layers of card?

Number of layers in span	Number of cubes supported
1	
2	
3	

Now bend one piece of card and use it as an **arch**. How does this affect the strength of your bridge?



Testing bridge

PHSE - Watch Newsround -

<https://www.bbc.co.uk/newsround>

Maths Problems

- Halim has £25 in his Twinkl Tunes account to spend on music. He downloads 'Twinkl Chill' for £5.50 and 'Twinkl Pop' for £6.80. The next two albums, 'Twinkl Rocks' and 'Twinkl Moves' cost the same amount each. When he has finished downloading all four albums, he has £1.50 left in his account. How much did 'Twinkl Rocks' and 'Twinkl Moves' cost Halim each?
- Halim decided to load £20 onto his 'Twinkl Tunes' account. The prices of some of the albums that Halim is interested in buying are shown below.



- What combination of three albums would leave him with the most money in his account? How much would he be left with?
- Which three albums would leave him with the least amount of money? How much would he be left with?
- What is the maximum number of albums he could buy with his £20? How much money would he be left with?
- Give different combinations of albums that Halim could buy with the following amounts of money. Remember to state how much money would be left in his account each time.

£10	£13	£15
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