

Welcome Peel Primary!

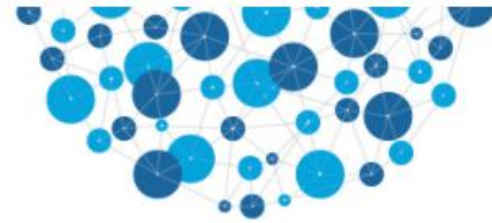
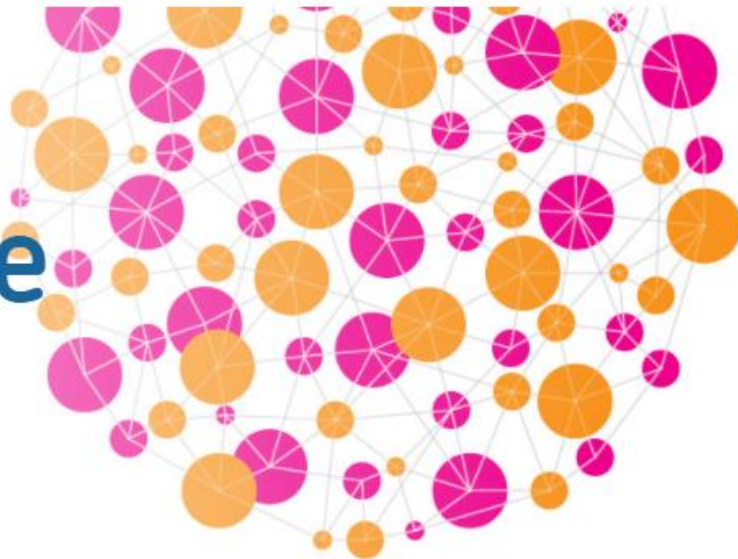
Explore further to find loads of  
STEM fun!

Peel Primary's  
BSW 2021!

- *What did you investigate today?*
- *What materials did you use?*
- *What would you do differently next time?*

5-14 March

British  
Science  
Week  
2021

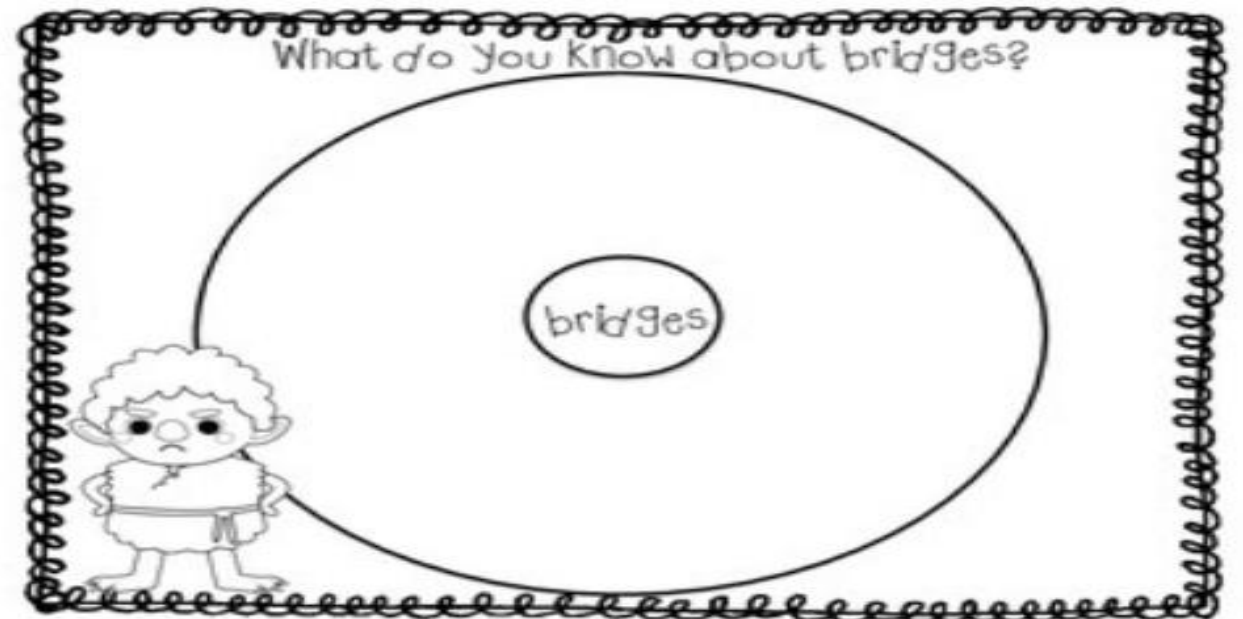
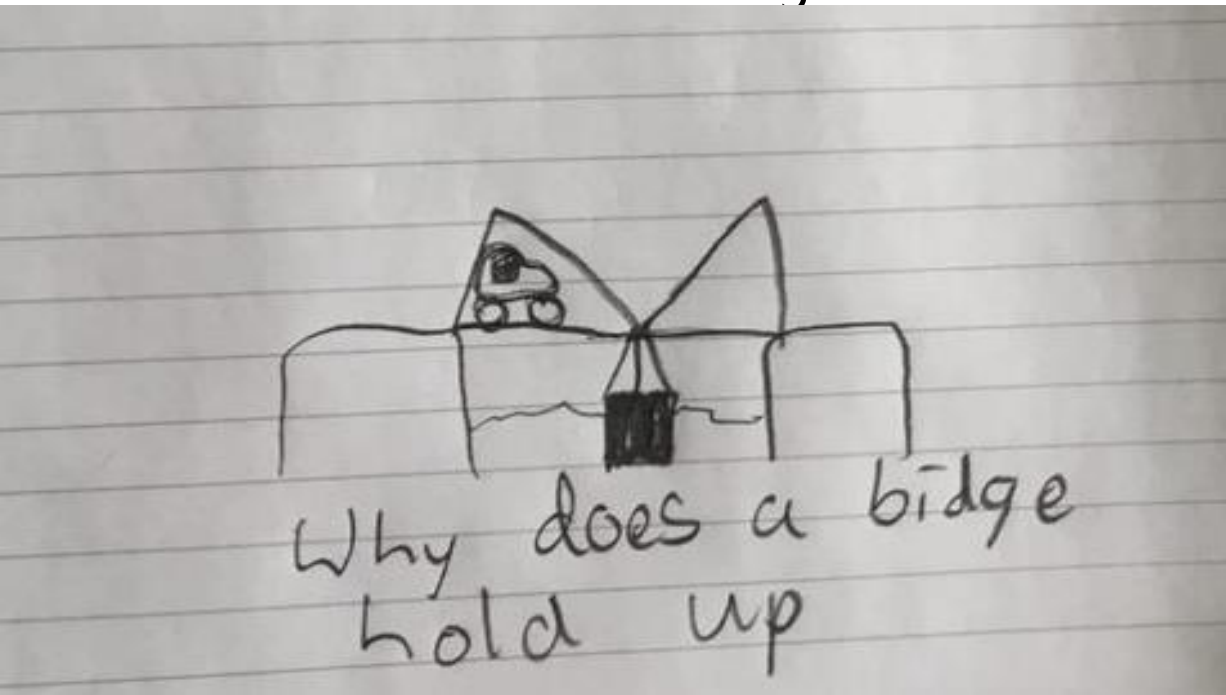


Three Billy Goats Gruff  
STEM Engineering Challenge



# Help! The Three Billy Goats Gruff are stuck!


- The selfish troll has destroyed the bridge to stop the three billy goats crossing the bridge...
- You must build them a bridge to help them to cross the river. We have lots of advice about materials you could use.
- To start this task you could think about:



Talk to a shoulder partner about what you could use to build a bridge for the three billy goats gruff.

How many goats could cross your bridge?

I plan to build a bridge using these materials:



\_\_\_\_\_ goats can cross my bridge.

## Your Challenge

Your challenge is to make a bridge only using paper, but it must be able to hold certain things such as:

- Three pencils
- Two rubbers
- Five sharpeners
- Two rulers

## The Design

You can make your bridge in any way shape or form, but it must be out of paper and it must be able to hold those things and if you want even more of a challenge try making it so it can hold all these things together.

# Stem paper bridges

## Materials

- Paper
- Glue

I would like you to make a paper bridge for your stem work. It will need to be held up without falling over. You will need to make it so it holds two 10p. I look forward to seeing your bridge.

Stars

Date 4.3.21

## Paper bridge!

you need: Paper art straws  
Something to stick them  
together such as glue  
Scissors to cut the straws  
Ruler to measure  
Tape Paper

Make sure your bridge is  
30 cm this way → and  
15 cm this way ↓

Then see how much weight your  
bridge can hold

1. I plan for the pls to learn how to make a bridge
2. Straws and celtape
3. I expect them to make a bridge that can hold a Sharpner
4. They will need to know to put the tape all the way around the Straws

# Take loads of photos to show us what you did!

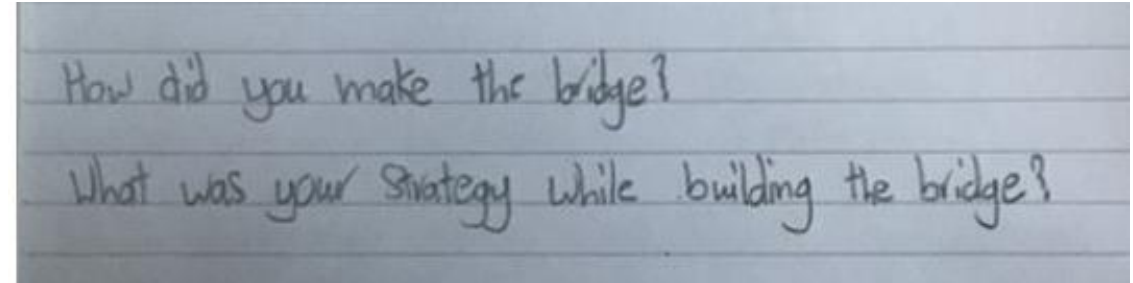
Here are a few of our photos:





## Afterwards ask yourself:

- Was my experiment successful?
- What did I do that wrong or right?
- What could of I have done better?
- Was my bridge strong enough?



We hope you enjoy your challenge!

