

# PROBLEM SOLVING: BUILD A BRIDGE



Welcome to this week's SUPER challenge.

The dastardly villains have destroyed the bridge that will transport vital supplies to Braintree.

How are your engineering skills? Can you build a bridge to support a small weight?

## EQUIPMENT

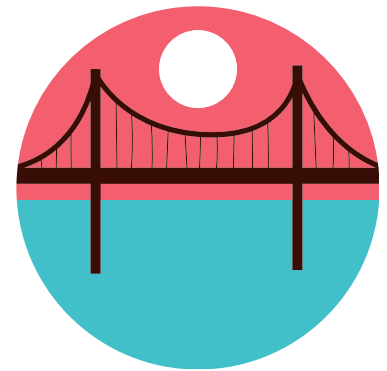
A piece of A4 paper

A ruler

Tape,

A weight (coins, small chocolate bar)

Bricks or books to balance your bridge on.



Start off by placing two piles of books or bricks about 20cm apart.

They will need to be level to help balance your bridge.

Place the paper across the gap and see how many coins will balance.

Try folding your paper in half next to see if it helps strengthen your bridge to hold more weight.

Experiment with different folding methods to see how strong you can make your bridge.

If you would like some ideas, watch the clip below.

<https://www.youtube.com/watch?v=CqYGVW2Eu6Y>

Did you think of the same ideas? What else could you build your bridge with?



**Why not challenge a family member to build a stronger bridge. Maybe the winner gets to eat the chocolate bar!**

**Don't forget to send your Leaders a photo and them with us on the Braintree District Scouts Facebook page.**