

Sawtry Science Week STEM Challenge

Bridges – Y3/4 Testing date April 24th 2025

These are general instructions to help everyone to make a beam bridge. Your adaptations and science knowledge will aim to make yours the strongest!

You are limited to using only:

- 6 sheets of A4 paper
- 1 metre of sticky tape
- Scissors
- Ruler

To make a beam bridge which will span a gap of 40 cm.



1. Test different ways of combining lengths of paper as this will be necessary to span 40cm.
2. Make two lengths to span the gap.
3. Make smaller beams to strengthen your bridge attach them, thinking about how to make your bridge stronger.
4. Cut a strip to make the deck of your bridge.
5. You are now ready to test your model.

To make your bridge carry the most weight there are a lot of variables that you can experiment with – how the 'beams' are made, what shapes create strength in your bridge, how you attach different parts of your bridge together and much more.