

Science / DT – As a fun activity begin your work on material strength by trying this challenge.

Your science tasks this week will also help you choose sensible materials for your DT design.

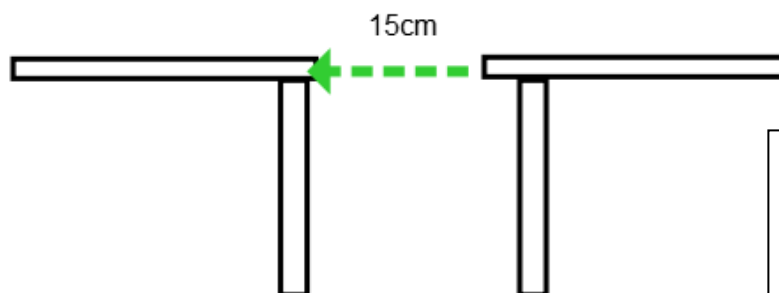
Anderson Shelters: Strength

Take a single piece of paper.

Your **challenge** is to make a bridge to cross a 15cm gap, using just a single **piece of paper**, which is as strong as possible.

Use the masses available to test how strong your bridge is.

Try lots of different designs and think about how you can change the shape of the paper.



Hint: You could use two stacks of books, DVD's etc to create your gap to build a bridge.

Top tips to try for making a strong bridge:

- Folding the paper – one fold, then 2 folds, then 3 folds etc.
- Twisting and then folding the paper
- Scrunching the paper into a ball

Then use something heavy like a toy car, some Lego or plasticine as your mass to test the bridge.

You will probably need to experiment with several pieces of paper but make sure that the paper is always the same size to start with so that it is a fair test.

Remember to record your results, this may help you with your Anderson shelter design!