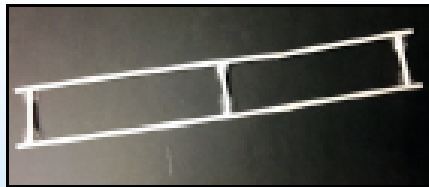


Can you build a truss bridge that spans a gap of 40cm? It must be able to support a weight of 500g at its centre, and include a smooth deck made of card which a toy car can travel across. Use art straws for beams, and connect them with sticky tape. How will you connect the beams to make trusses? The suggestions below might help you...



Make a 'ladder'. This is a good starting point for making a truss.

Choose a truss pattern, or design one of your own.

Add beams to your ladder according to your chosen truss pattern.

Gently twist and bend your finished truss section. Does it feel much stronger when you try and bend it in a certain way? This will help you decide how to attach the truss to the deck and strengthen your bridge.



You could use several truss sections to make a really strong bridge!

Draw, label and/or describe your truss bridge design: