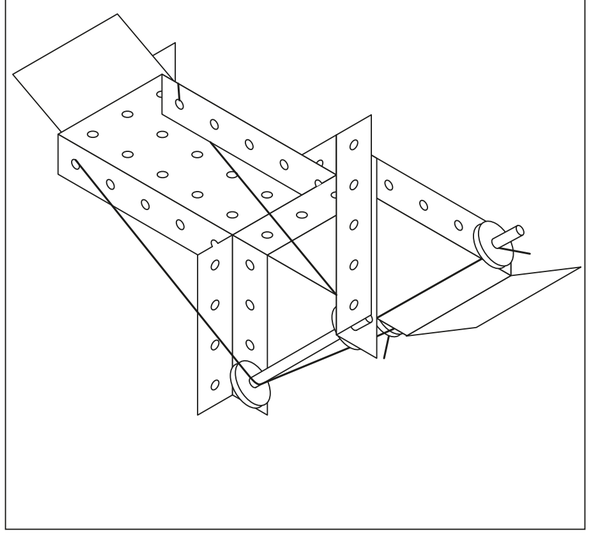
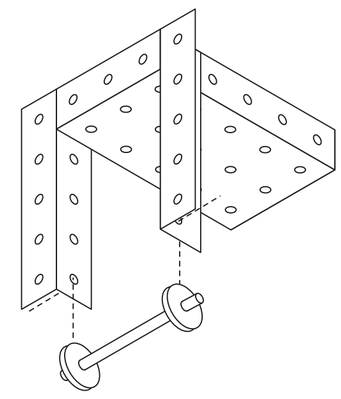
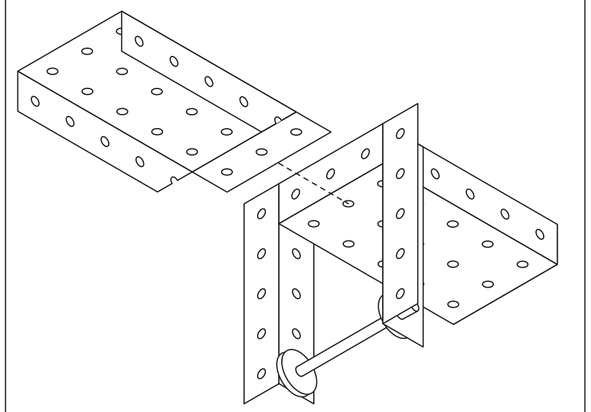
Drawbridge



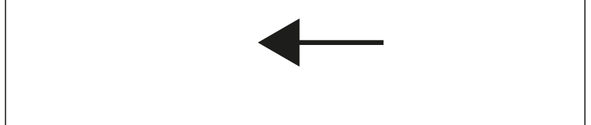
Make the base. Fold the two girders and glue them to a base where shown.



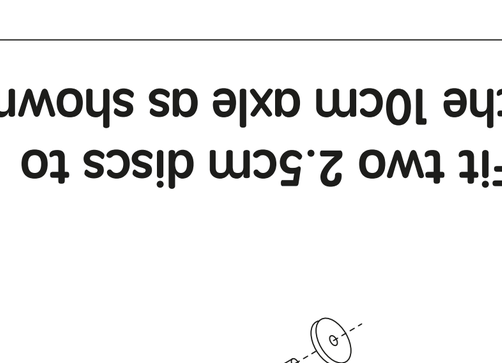
Glue them to a base where shown.



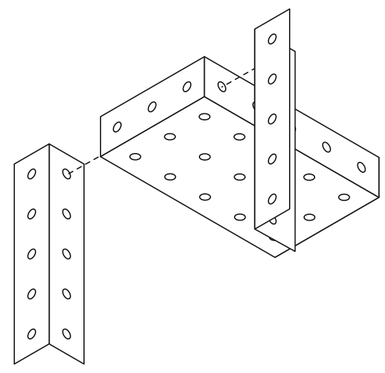
Fit the axle between the tops of the girders



Pass each end of the string through a disc and push these onto the ends of the lower axle.

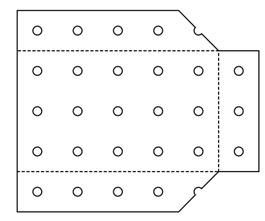


Fit two 2.5cm discs to the 10cm axle as shown.



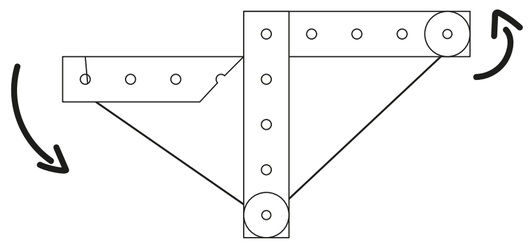
Fold the second base to shape and glue it in place.

Trim the second base to this shape.

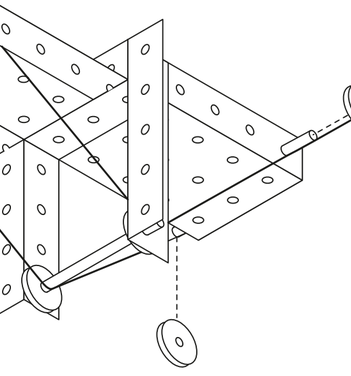


Fit the second base where shown.

Pass the string through the second base where shown and over the top axle.

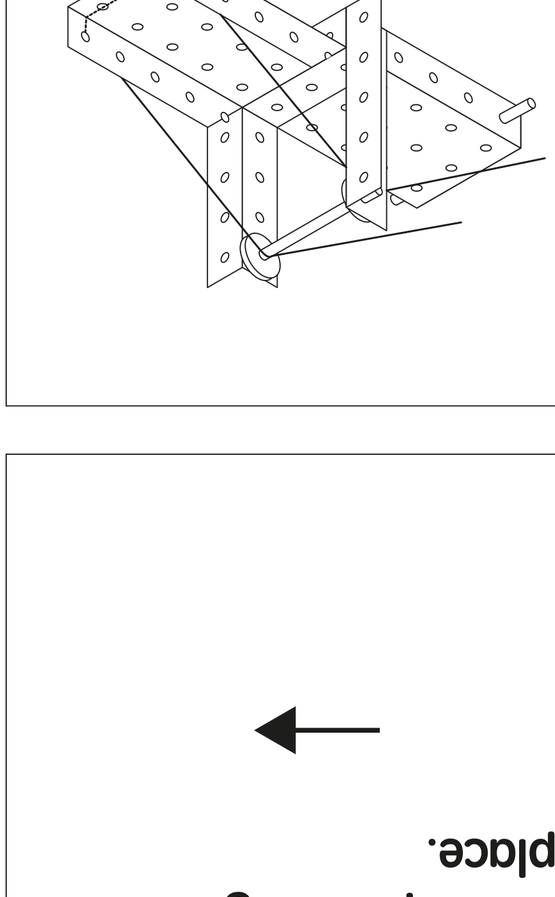


Turn the winder to make the bridge go up and down.



Your drawbridge has two important moving parts. Do you know what they are?

What makes the bridge deck go down when you lower it with the winder?



Use a 2.5cm grid to copy the two ramps onto some recycled card.

2.5cm

The force of gravity pushes the deck down! It is controlled by the cable and the winder.

1. A Winder. This rotates to control the cable.

2. A Hinge. This connects the bridge deck and allows it to move up and down.

For building tips go back and click these windows:

Parts

2 x Bases
2 x 12.5cm Girders
4 x 2.5cm Discs
2 x 10cm Axles
You will also need
80cm of thin string