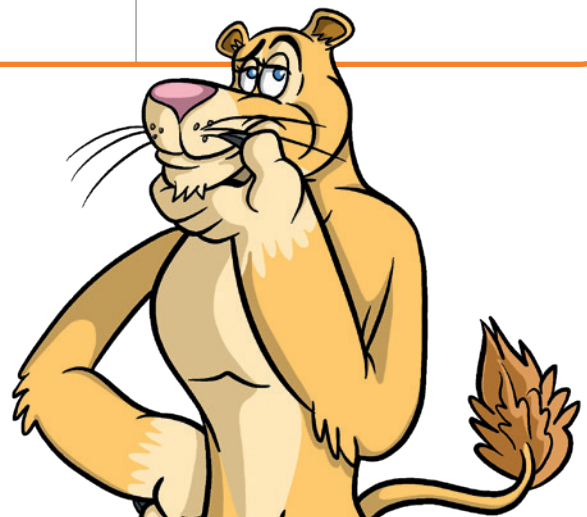




# Moving bridges

## Moving bridges comparison

Type of bridge	Advantages	Disadvantages
<b>Bascule</b>		
<b>Lifting</b>		
<b>Swing</b>		





# Moving bridges challenge

**Context:** You have been given the 'plan' and 'elevation' view of a river where a client thinks they need a bridge.

The client needs vehicles and pedestrians to frequently cross the water at this point on the landscape. The plan view is from above as if you are a bird looking down at the land and water. The elevation view is from the side as if you are in the water looking at the span of the river banks.

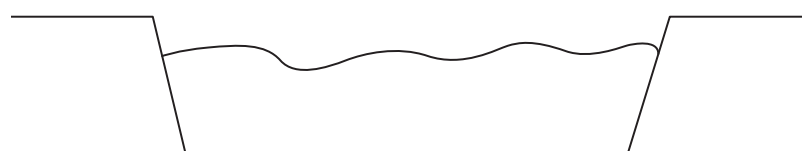
The client wants a vehicle and pedestrian crossing here but also needs to allow boats to pass through the water at times.

## Brief (who, what and why):

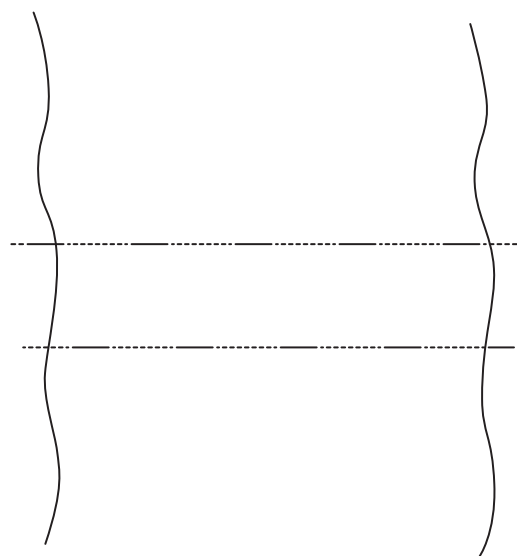
The client requests that you make some recommendations about which type of crossing could be most suitable. Using your knowledge of moving bridges and looking at the plans you have been given, consider which types of crossing you might recommend.

## Tips:

- As a group you can help each other. Engineers work together in teams to get the best results for their client.
- Consider each possible solution separately and discuss what the benefits and issues of each would be.
- You can use the cardboard and split pins provided to add to the plan and elevation views map and model some ideas.
- Prepare to share your ideas with the other teams at the end of this activity.



**Elevation**



**Plan View**