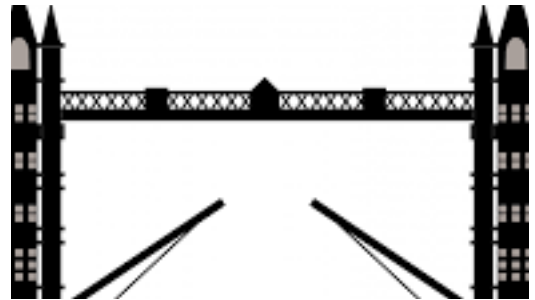


## ***Standing Tall and Bearing Weight***

Now it's your turn to design and build a bridge. How can you make a piece of paper strong enough to support a load of coins? Try different shapes and come up with the shape that holds the strongest load!

### **Materials needed:**

- 4 thick, heavy books of equal size
- Several pieces of A4 paper
- Several similar coins



### **Steps:**

1. Make two stacks of books of equal height. Put them 15 cm apart.
2. Make a bridge by putting a piece of paper across the books.
3. Put some coins on the centre of the bridge. How many coins can your bridge support before it collapses?
4. Think how you can make the bridge stronger by changing the shape of the paper. It can be folded, rolled, twisted or otherwise.
5. Test your bridge again. Does it support more coins this time?