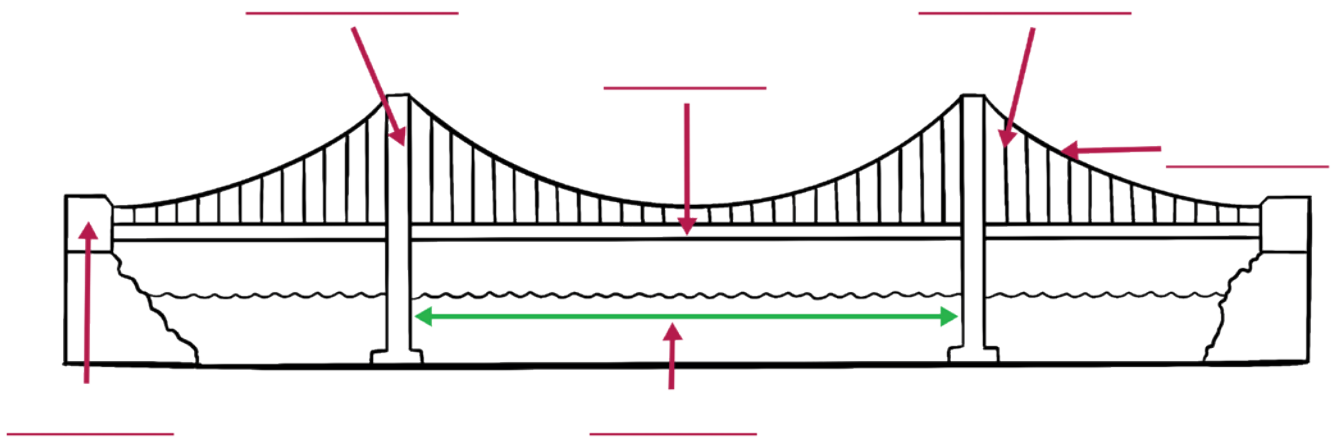




# Suspension bridge terminology

Label the parts of the bridge using the list of words below



Span

Deck

Tower

Main Cable

Hanger

Anchor



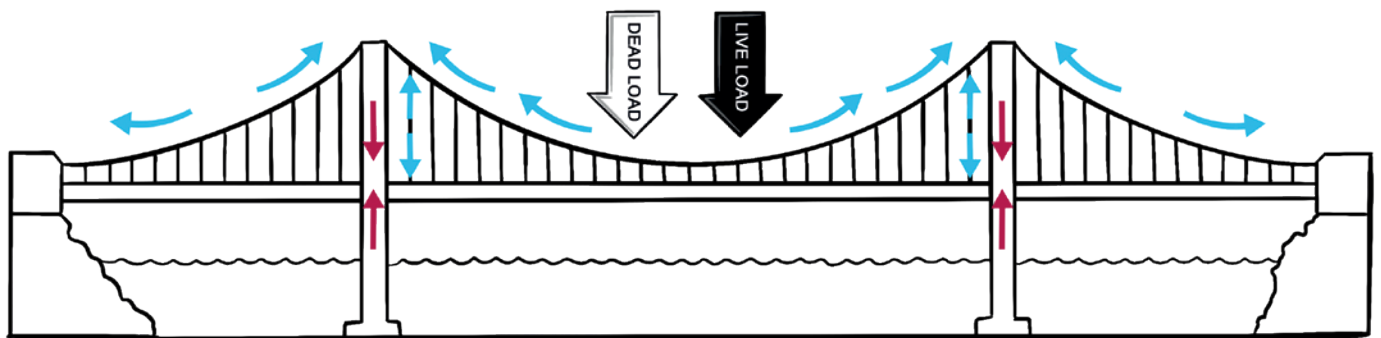
*Can you match up the words with the parts of the bridge? You'll see that your bridge vocabulary is growing again!*



# Forces in a suspension bridge

→ Compression

→ Tension



*A suspension bridge dissipates the forces very effectively, which is why suspension bridges can span such long distances.*





# Famous suspension bridges



Akashi Kaikyo - 'Pearl Bridge' 1991 metres (finished in 1998)



Humber 1410 metres (finished in 1981)



Golden Gate 1280 metres (finished in 1937)



Severn 988 metres (finished in 1966)



Brooklyn 486 metres (finished in 1883)



Clifton 214 metres (finished in 1864)



Menai 176 metres (1826)

The distances shown are for the main span of each bridge

***Look up these bridges on the internet – there are some amazing photos of them!***



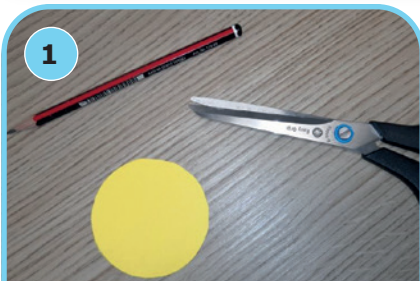




# Card wheel method for making friendship bracelets

## You will need...

- A piece of card (normal craft card, a cereal box or similar will also work)
- 4 colours of embroidery thread, cut into 1.5m lengths
- A glass tumbler
- Pencil
- Scissors



Draw around the glass tumbler using the pencil, on the card. Cut out the circle of card.



Mark the centre of the card, and then 8 points around the edge of the card.

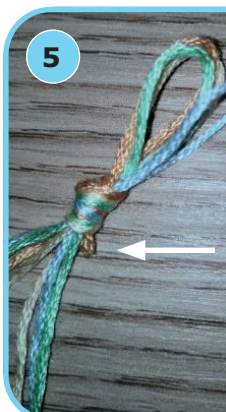


Cut little slits into the card edge with the scissors where you have marked. Push the pencil through the card to create a hole.

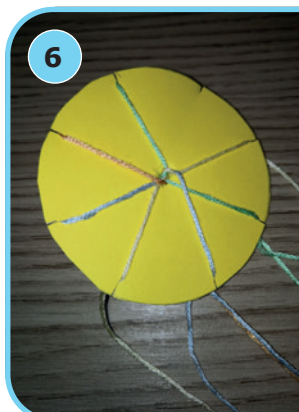
Take care not to push the pencil into your hand – use modelling clay or sticky tack behind the card if it is particularly difficult to make the hole.



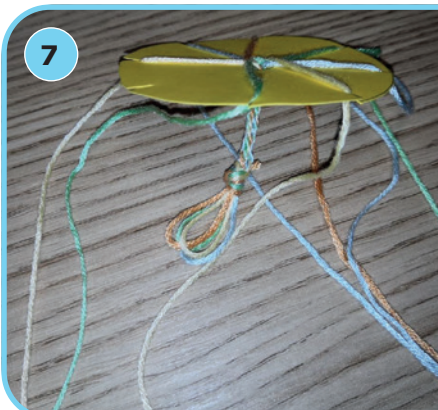
Gather all 4 pieces of embroidery thread together and knot them.



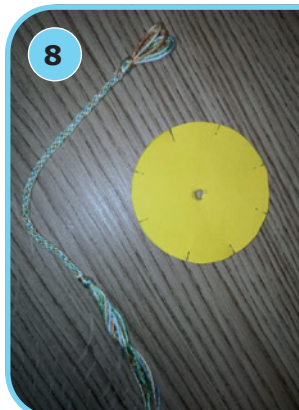
You will only use 7 of the 8 strands of thread hanging from the knot, so select any one of the threads and cut it off, close to the knot itself.



Push the knot of thread through the hole of the card and then separate all of the 7 strands, so that one thread sits in each slot on the edge of the card. This should leave one empty.



Line up the empty slot towards you, and then count three strands round to the right. Take the third strand and place it into the empty slot. Rotate the card wheel around so the now empty slot is in front of you and repeat the process. As you repeat the process, you should start to see a woven strand appear on the other side of the card.



Once the woven bracelet is long enough, remove the strands from the slots, and pull the whole bracelet through the card. Tie the loose strands into a knot. You now have a woven friendship bracelet.