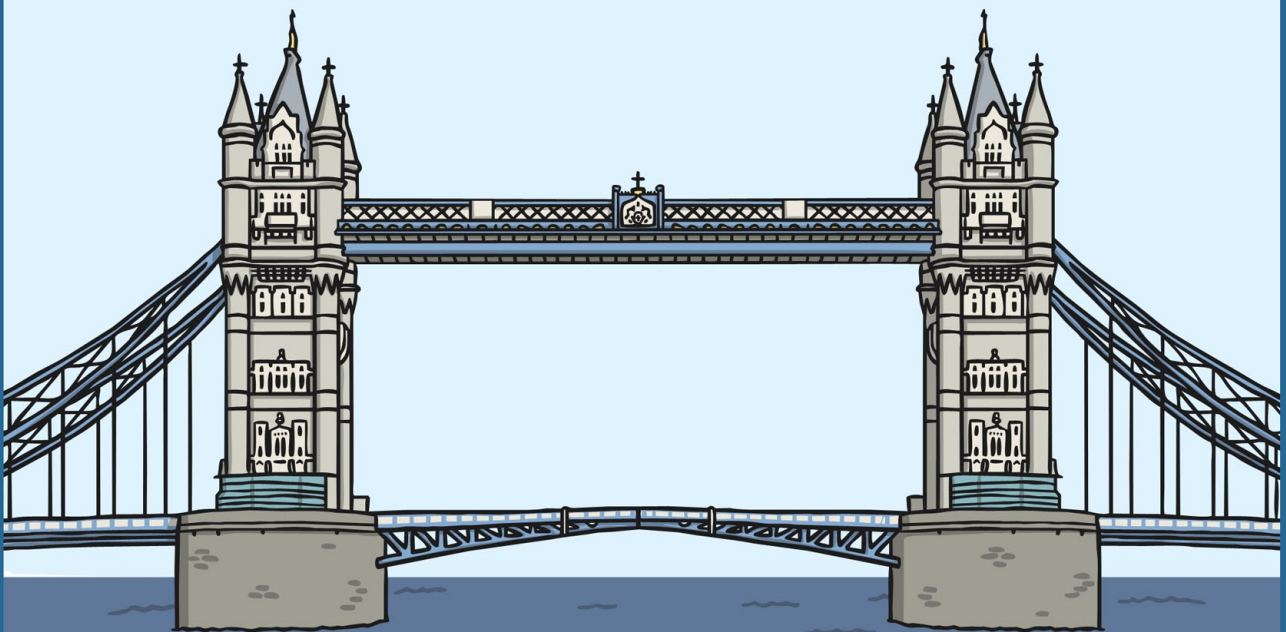


Bridges

Structural Planning,
Designing and
Evaluating Project Booklet



The task

As a small team, design a new bridge which will be built for trains to cross the Thames Estuary. Once designed, produce a model. The model needs to be at least 1 metre in length, 30cm in width and 40cm high. The bridge must support itself and be stable.

My initial ideas – work on this bit independently, ready to share your ideas with your team.



Once you have shared ideas, decide on the finished bridge and draw it below. Label any important features.



What we will need

Word bank: card, paper, sticky tape, masking tape, PVA glue, glue gun (with an adult's help), doweling, scissors, paper clips, cardboard triangles, saw and bench hook (with an adult's help).

What we will need to make our bridge:

The order in which we are going to make our bridge:

Step 1

Step 2

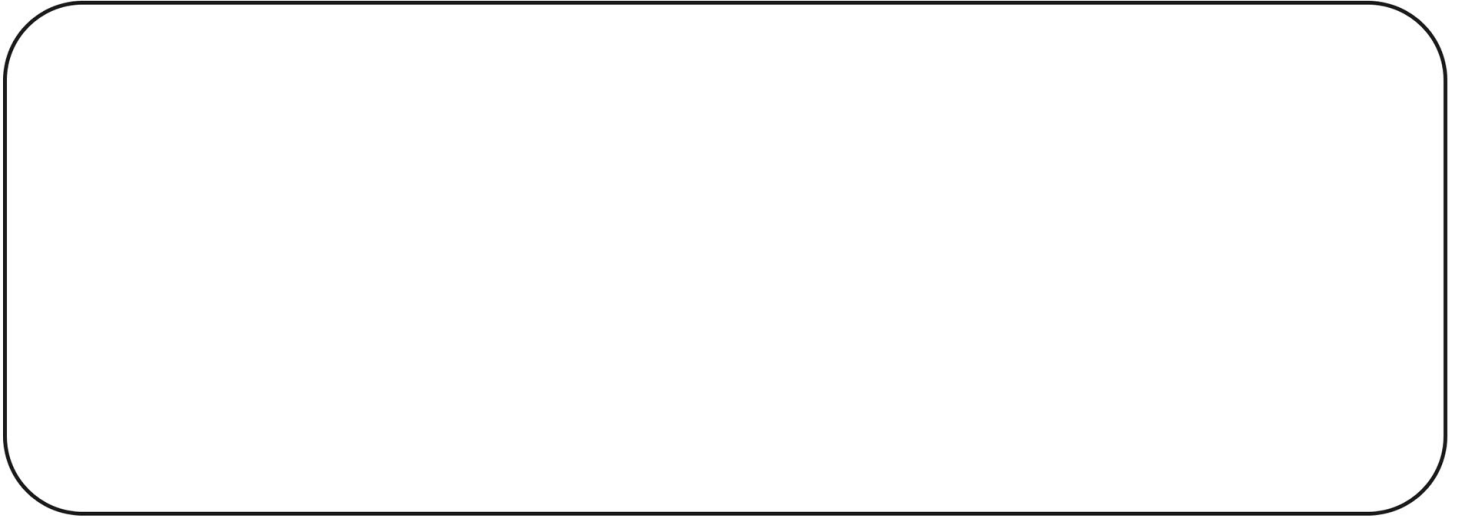
Step 3

Step 4

Step 5

Evaluating the bridge

Drawing/photo of finished bridge:



Is your bridge at least 1 metre in length?

Is your bridge at least 30cm wide?

Is your bridge at least 40cm in height?

Is your bridge stable? If yes, how did you make it stable?

Does it stay upright on its own? If yes, how did you achieve this?

Are you happy with the bridge?

What, if anything, would you improve about it?

How well did you work together as a team?