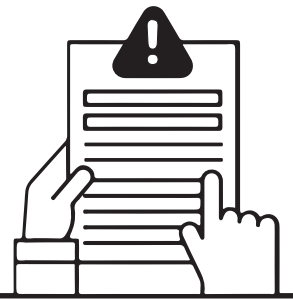


Craft Resource Disclaimer



We hope you find the information on our website and resources useful. This resource refers to the use of various craft supplies. You are responsible for the safe use of these resources, including following any manufacturer's instructions or guidance. We are not responsible for the health and safety of your group or environment and, so, insofar as it is possible under the law, we cannot accept liability for any loss suffered by anyone due to the use of this resource.

A stylized illustration of a suspension bridge, likely the Manhattan Bridge, spanning across a body of water. The bridge features two large, ornate stone towers with intricate architectural details. The suspension cables are depicted as a series of parallel lines. In the background, a city skyline with various buildings is visible under a blue sky with light clouds. An American flag is perched atop the right tower. The overall style is that of a graphic novel or a modern illustration.

Bridges

Structural Planning,
Designing, and
Evaluating Project

The Task

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

My Initial Ideas

Work on this part independently, and be 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.



Supply Ideas

card stock	liquid glue	saw
paper	paper clips	carboard triangles
invisible tape	doweling	glue gun (with an adult's help)
masking tape	scissors	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:

1. Is your bridge at least 1 meter in length?

2. Is your bridge at least 30 cm wide?

3. Is your bridge at least 40 cm in height?

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

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

6. Are you happy with the bridge?

7. What, if anything, would you improve about it?

8. How well did you work together as a team?
