



Build a Bridge Challenge

Your Challenge

You are an experienced project manager in the engineering industry with great experience designing and project managing major constructions including bridges.

The current Tay Bridge and Rail Bridge are a familiar sight over the River Tay but work is underway to replace the Road Bridge.

You have a crucial role in the Design Team and you will be responsible for designing the bridge and building a model, this will be shown to the Government who are funding this project.

The design should include the structure and also how the bridge will look. The bridge should be strong enough to take traffic and also be of sufficient height to allow boats to pass under the bridge that travel up and down the River Tay.

Requirements

The built model will span a gap of 50 cm, be a height of 20cm and be capable of withstanding 1kg of weight in the centre and at the ends.

Are you willing to accept the challenge!

Do not forget to research different bridge shapes and what will best fit the requirements.

Draw some plans before you start your build and feel free to **ask an expert** if you need help.