

Year Three: Structures

Knowledge Organiser



The Big Idea

Pupils will gain familiarity with general purpose software that can be used to draw accurate shapes, such as 2Design and Make. They will select and use appropriate tools and software to measure, mark out, cut, score, shape and assemble with some accuracy. They will Test and evaluate their own products against design criteria and the intended user and purpose.

Research the Engineer



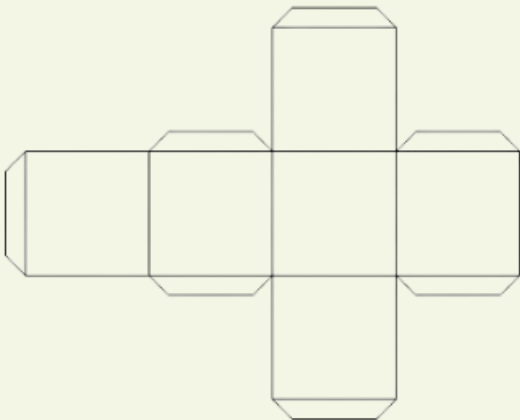
Gustave Eiffel

- Gustave was a French structural engineer and architect.
- He designed the Eiffel Tower.
- He also designed the armature (supporting framework) for the Statue of Liberty, New York Harbour, United States

Design Brief

Use computer aided design to design, create and evaluate a gift box to hold a food-based gift.

Make the Product



Evaluate the Product

Does my product work for the intended purpose?

Is my product suitable for the intended user?

Does it meet the design criteria?

Vocabulary

computer-aided design shell structure edge face vertex
font net cuboid prism