

# Year Two: Structures

## Knowledge Organiser



### The Big Idea

Through this project, children will generate ideas based on simple design criteria and their own experiences. They will select and use tools, skills and techniques, explaining their choices. They will evaluate their product by discussing how well it works in relation to the purpose, the user and whether it meets the original design criteria.

### Research the Engineer



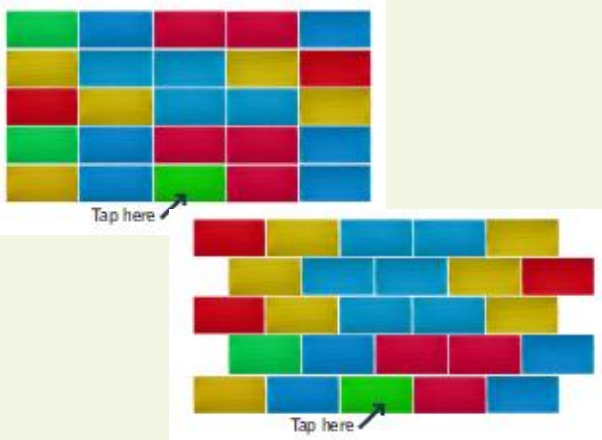
#### Isambard Brunel

- Born on 9th April 1806.
- He was a Victorian engineer who was one of the main architects during Britain's industrial revolution.
- One of his most famous designs was the Clifton Suspension Bridge. Isambard was 24 when he designed the bridge.

### Design Brief

Design, make and evaluate a strong bridge for the Three Billy Goats to cross.

### Make the Product



### Evaluate the Product

Does my bridge meet the design requirements?

Did it stand?

Did it hold the required weight?

### Vocabulary

freestanding structure    frame structure    shell structure  
stability    buttress    brick bonding