

Year 5: Structures  
How are frames strengthened, reinforced  
and made rigid?



**Core content:**

Explore a range of ways that frames are reinforced to make them stable.

Identify joins and supports.

Create a model shelter based on what they have learnt.

**Technical vocabulary:**

**Frame** – the supporting structure of a piece of furniture, a building, a vehicle etc. that gives it its shape.



**I-beam** – a girder which has the shape of an I when viewed in section.



**Struts** – rods or bars forming part of a framework and designed to resist compression.



**Brace** – a device that holds things together or holds and supports them in position.



**Mitre** – a joint made between two pieces of wood or other material at an angle of 90°, such that the line of junction bisects this angle.



**Gussets** – brackets used to strengthen joins of a structure.



**Connections:**

Abraham Darby III  
(1750 – 1789)  
English ironmaster and Quaker



# Year 4/5

## Spring 2

### Structures

#### Block E

