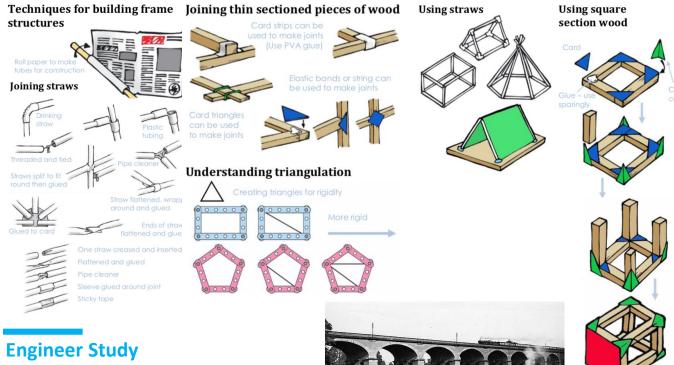
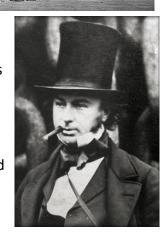
Structures Knowledge Organiser – Year 5

Frame Structures



Isambard Kingdom Brunel

- ✓ Isambard Kingdom Brunel was born on 9th April 1806
- ✓ Isambard Kingdom Brunel was a Victorian engineer who was one of the main architects of Britain's industrial revolution. He was famous for his pioneering work on Britain's railways and ships.
- ✓ He built railways and designed bridges, tunnels, viaducts and passenger ships.





Vocabulary

Modelling – the process of making a 3-D representation of a structure or product. **Compression** – the application of pressure to squeeze an object.

Strut – a part of a structure under compression.

Tension – a force pulling on a material or structure.

Tie – a part of a structure under tension. **Diagonal** – a straight line that goes from one corner to another inside a shape.

Horizontal – a line that is parallel to the ground.

Vertical – a line that is at right angles to the ground.

Triangulation – the use of triangular shapes to strengthen a structure.

Frame structure – a structure made from thin components e.g. tent frame.





