



Design and Technology Knowledge Organiser

Year 5 - To Design and Make a Movable Bridge.



Structures

Year 5 will be using their science knowledge of pulleys, gears, levers and materials to design and construct a movable bridge..



Careers

Civil Engineer
Materials Scientist
Structural Engineer
Architect
Urban Planner
CAD Technician
Geotechnical Engineer
Land Surveyor
Mechanical Engineer
Electrical Engineer
Project Manager
DT Teacher

At home:

- Can you find any pulley, gears or levers in your home or local environment? What are they used for?
- What are the items in your home made from? Why did the designer choose this material?

Emily Roebling (1843-1903) – Civi Engineer

Although the Brooklyn Bridge isn't a movable bridge, Emily had to overcome prejudices about women to train as a civil engineer and work with her husband in designing and building this amazing structure.

She was the also the first female field engineer.



Emily
Roebling



Brooklyn
Bridge