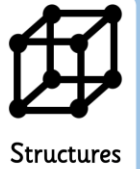




## Design and Technology Knowledge Organiser (Block 2)



### Year 5 - To Design and Make a Movable Bridge.

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