Year D Design and Technology

Year 3 – Bridges (Frame Structures)

Design Brief -
To make an aquaduct bridge which will transport water.



By the end of this project pupils will know-

-Understand how to strengthen, stiffen and reinforce 3-D frameworks.

-Know and use technical vocabulary relevant to bridges (see below)

How will I do this?

- **Investigate bridges to give starting points for a design.**
- **Develop more than one design or adaptation of an initial design. Decide which design idea to develop.**
- **Plan a sequence of actions to make a product after exploring different bridges**
- **Think ahead about the order of their work and decide upon tools and materials.**
- **Propose realistic suggestions as to how they can achieve their design ideas.**
- **Use tools with accuracy. Measure and mark shapes accurately to 1cm.**
- **Consider and explain how their finished product could be improved.**

KEY VOCABULARY

frame structure,
stiffen, strong, strengthen, reinforce, triangulation, stable, stability, shape, join, temporary, permanent, design brief, design specification, prototype, annotated sketch, purpose, user, innovation, research, functional