Year D Design and Technology

Year 5 – 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?

- **Research and evaluate existing products, considering purpose (strength, Stability).**
- **Record ideas using annotated diagrams and sketch and model alternative ideas then decide which design idea to develop. Develop one idea in depth.**
- **Select from and use a wide range of tools.**
- **Measure, draw and cut accurately and safely to a marked line.**
- **Consider and explain how the finished product could be improved related to design criteria.**

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