

Structures

In Year 4 we made pavilions



In Year 4 we:

- 1) Understood what a frame structure is and that a 'free-standing' structure is one which stands on its own.
- 2) Created a design to show which materials had been selected.
- 3) Made a variety of free standing frame structures.
- 4) Described what characteristics of a design and construction made it most effective.

Key Vocabulary from Year 4

Pavilion = a decorative building or structure for leisure activities

Frame structure = a way of building something so that the inside supports are built first and the outside covering is added afterwards.

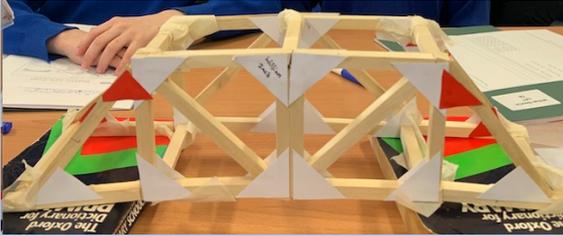
Aesthetic = how an object or product looks.

Cladding = a material put on top of another material or on a structure as protection or to improve the way it looks.

Reinforce = to make a structure or material stronger, especially by adding another material to it.

Structures

In Year 5 we will make and design
Bridges



Types of bridge:



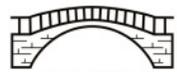
Truss bridge



Suspension bridge



Beam bridge



Arch bridge

In Year 5 we will:

- 1) Understand how triangles can be used to reinforce bridges.
- 2) Use the correct techniques to saw safely.
- 3) Design a stable structure that is able to support weight.
- 4) Suggest points for improvements for our own and others' bridges

Key Vocabulary which will be new in Year 5:

Structure = something which stands, usually on its own.

Reinforce = to make a structure or material stronger, especially by adding another material or element to it.

Compression = a squashing force caused when parts of a structure are pushed together

Tension = a stretching force caused by two parts of a structure being pulled apart