

Pavilions

DT Theme:
(Structure unit)

Teaching focus:
Learning Lens: Structures
Class: Year 4

Previous Knowledge

Chairs (Y2) Castles (Y3)

Project Hook or 'Wow' memory

Introduction of world expos of pavilions

Learning Steps

Key Knowledge

Exploring frame structures - To create a range of different shaped frame structures

Discuss the purpose of a pavilion (A light, flexible space which can be permanent but is often temporary) Look at natural and manmade structures. Demonstrate how to construct temporary frame structures using toothpicks and plasticine. Make a range of structures (link to 3D shapes).

Designing a pavilion - To design a structure

Create a design for a pavilion. Draw and label a plan on their bas board, create a footprint of pavilion in pencil. Where do they think their pavilion might be placed.

Pavilion frame – to design a pavilion frame

Children to consider ways of ensuring that their structure is strong, stable and free-standing. Review plan. Create structure. Refer to plans

Pavilion cladding - To add cladding to a frame structure

Evaluate a range of material for cladding – thinking about the texture they want: tissue paper, sugar paper, card, wrapping paper, newspaper, straws, clear plastic, packaging, ribbons, etc, all in a variety of colours.

Evaluate a design plan and final product against success criteria based on peer assessment.

Use the design criteria to assess the different structures. Record ideas.

Key skills

Design a stable pavilion structure that is aesthetically pleasing and selecting materials to create a desired effect.

Build a frame structure designed to support weight. Create a range of different shaped frame structures.

Choose appropriate materials to build a strong structure and for the cladding

Adapt, test and evaluate the final structure against the planning

Key vocabulary

3D shapes

Innovate

Design Criteria

Reinforce

Natural

Structure

Cladding

Aesthetic

Final outcome

Children create freestanding structure with a background for display.

Children to create a simple structure

