

Y3/4 Year A Summer Term 2

Topic: Plants

Subject: DT – Photo Frames

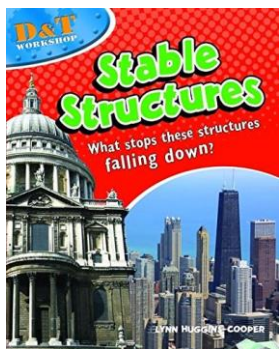
National Curriculum Objectives

- use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups
- generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design
- select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately
- select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities
- investigate and analyse a range of existing products
- evaluate their ideas and products against their own design criteria and consider the views of others to improve their work
- apply their understanding of how to strengthen, stiffen and reinforce more complex structures

Links to School Values

Respect

Texts to support learning:



Stable Structures – Lynn Huggins Cooper

Key Knowledge and Vocabulary

This unit will follow on from the Art unit in Summer 1 on Andy Warhol. Children will design and make a photo frame for a piece of their Warhol-inspired art work.

Identify how everyday **free-standing** objects have been made **stable**

Identify the different **components** of a **photograph frame**

Compare photograph frames and talk about their features

Know and describe ways of making **strong** and **stable structures**

Know and describe different **techniques** for **strengthening** and **joining** paper and card
Experiment with different strengthening and joining techniques

Know and describe ways of making strong and stable structures

Select and use appropriate strengthening and joining techniques

Create a free-standing **prototype** photo frame from paper or card

Evaluate different types of structures

Apply what they have learnt about making stable structures in their design ideas

Design a photograph frame that would be suitable for a particular **purpose**

Describe how they will make their finished product of a high quality

Follow a **design** to create a photograph frame

Create a strong and stable structure

Suggest ways in which they could **improve** their finished product

Evaluate their finished product

Suggest ways in which they would change their design if they were to make their photograph frame again

Assess how well their finished product meets the original **design criteria**