



Statutory Requirements

- To use materials to make and strengthen products.
- Design products that have a clear purpose and an intended user.
- Make products, refining the design as work progresses.
- Cut materials safely using tools provided.
- Explore objects and designs to identify likes and dislikes of the designs.
- Suggest improvements to existing designs.
- Explore how products have been created.

Experiences

(e.g. photo frame)

- Children to look at different examples of photo frames and analyse what makes them strong and freestanding.
- To comment on what they like/dislike about them.
- To identify what the materials were made from and why they were made from these materials.
- To practise gluing skills so that they can stick a photo frame together using a variety of materials including card, lolly pop sticks, paper, pipe cleaners and straws.
- To experiment with different types of materials such as wooden lollypop sticks, paper straws, plastic straws, corrugated card and pipe cleaners to help them decide which materials they would use to make their frame strong and freestanding.
- To strengthen their frame using more than one lolly pop stick, and make it freestanding using a range of materials.
- To adapt their original designs depending on whether their original designs worked or not.

Key Vocabulary & Knowledge

Construction	Building or creating something.
Freestanding	A structure that stands up on its own
Strengthen	Things to make products looks nice
Prototype / mock-up	A trial/test of a product before the final version.
Design specification	A list of criteria the final product should meet to be successful.

Construction Opportunities

To strengthen a picture frame and make it freestanding to display their picture.

