



Year 3 - Summer term - Photo frames

Key Vocabulary

Scale Model	A small but exact copy a scale model of a the product.
Modelling	Representing something.
Strengthening	To make something stronger and withstand more force.
Rigid	Unable to bend.
Reinforcing	To withstand more force.
Bracket	A right-angled support attached to a wall for holding a shelf, lamp, or other object.
Stable	Unlikely to fall over.
Stability	Is a stable structure.
Base	The lowest part or edge of something, especially the part on which it rests or is supported.



Lesson sequence

Evaluation of existing products	Ask the children to investigate a range of photo frames. The range should include examples constructed in different ways <i>eg with a rigid / flexible framework, stiff / flexible sheet materials, cladded</i> . Discuss aspects of the frame is important to them and why.
Focussed tasks	Recognise that under certain circumstances structures can fail when loaded (they will be familiar with common techniques for reinforcing and strengthening structures and will incorporate some of these in their bird hide models) Use appropriately a variety of temporary and permanent joining techniques using framework materials and textiles
Design	Work as part of a team Produce several clear design ideas, including step-by-step lists of what needs to be done and lists of resources to be used
Make	Make suggestions for alternative methods of construction if necessary
Evaluate	Evaluate their own and other children's bird hides identifying what is and what is not working, including appearance
Health and Safety	when using loads for testing strength ensure that the loads cannot cause injury or damage when the structures fail fire safety should be ensured for any large structures that young children may use