

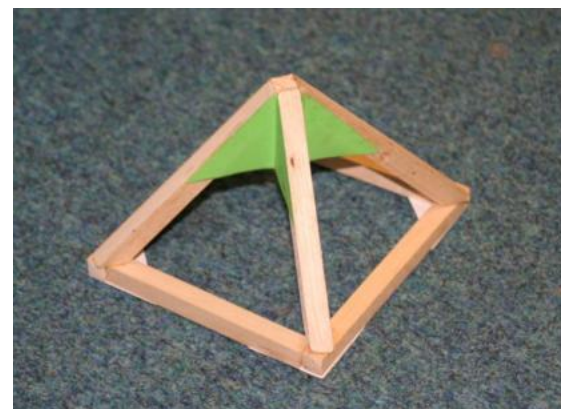


Year 5 - Autumn term Bird Hides - Structures

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.
Cross-section	A surface or shape exposed by making a straight cut through something, especially at right angles to an axis.
Rigid	Unable to bend.
Reinforcing	To withstand more force.
Strut	A rod or bar forming part of a framework and designed to resist compression.
Beam	a long, sturdy piece of squared timber or metal used to support the roof or floor of a building.
Bracket	A right-angled support attached to a wall for holding a shelf, lamp, or other object.
Gusset	A bracket strengthening an angle of a structure.

Examples of Bird Hides



Lesson sequence	
Evaluation of existing products	Use PowerPoint to gain an overview of a range of shelters. Ask the children to investigate a range of shelters and bird hides including <i>e.g. permanent, temporary, enclosed, open, woven, rigid, flexible</i> . 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 bird
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