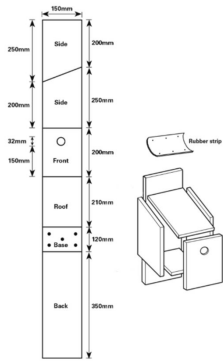


# Resistant Materials KS3 Y9 rotation (12 lessons)

KEYWORDS- Design brief, specification, design ideas, 3D card and CAD modeling, dimensions, categorise, hardwoods, softwoods, marking out,

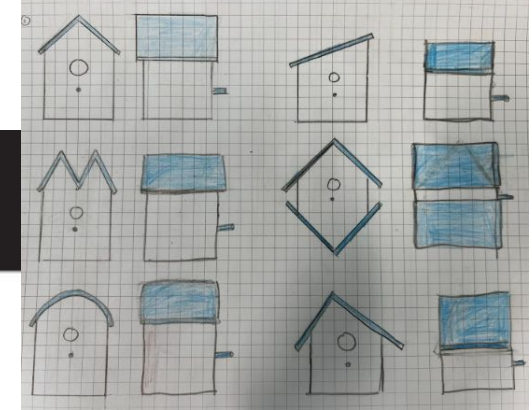
LO.1. Learn how to develop a given bird box design



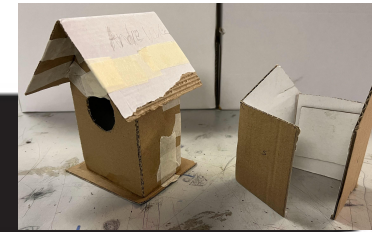
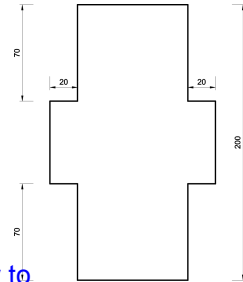
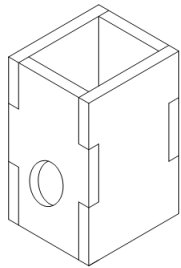
LO.2. Researching and analysing existing products in order to improve the design.



LO.3. Practice 3D sketching to create and develop designs.



**TOOL KEYWORDS**  
Marking out- stel rule, try square, pencil  
Hand tools- tenon saw, coping saw, speed clamp, bevel edge chisel

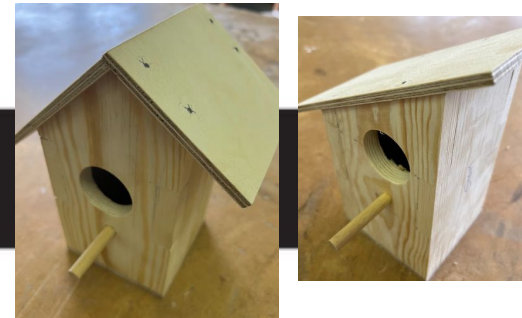
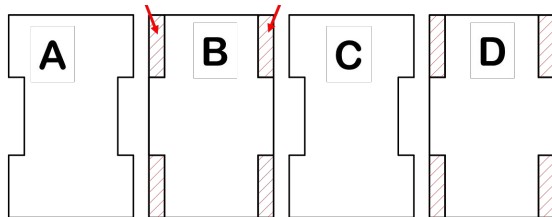


LO.4. Visualise designs in 3D with card modeling and CAD



LO.5. Use tools & equipment effectively to accurately cut a comb joint.

LO.6. Using tools & equipment begin to piece construct the bird box with 'snug' fitting comb joint.



LO.7. How to correctly and safely use hand tools to complete a functional bird house

## GCSE PROGRESSION

CAD developing and modeling design ideas and prototypes

## KEY SKILLS & PROCESSES

1. Developing design ideas
2. Modeling in card and on CAD to visualise designs
3. Finishing and presenting final model