

100.847 Apple house Bird feeder



Please Note

The OPITEC range of projects is not intended as play toys for young children. They are teaching aids for young people learning the skills of Craft, Design and Technolo- gy. These projects should only be undertaken and tested with the guidance of a fully qualified adult. The finished projects are not suitable to give to children under 3 years old. Some parts can be swallowed. Dan- ger of suffocation!

1. Product information:					
Article: _	practical wood construction pack				
Use:	in Design Technology Key stage 3				
2. Material Information:					
2.1. Material:	Pine (coniferous) softwood Gabun plywood,may glued layers				
Working:	wood can be sawn, filed, shaped, planed and drilled according to measurement or patterns.				
Joining:	waterproof woodworking glue				
Finish:	wax (liquid or hard) clear wood varnish staining (water soluable stain with varnished finish) linseed oil				
2.2. Material:	Welding rod (steel)				
Working:	bending				
Finish:	not necessary				
3. Tools:					
Saws:	use a fret saw for all rounded and curved shapes				
	Note! fret saw blades must be inserted with the teeeth facing forward				
	Use a special fret saw cutting board, saw with a slow,steady, action moving the work towards you as you go.;				
	Fine Saw for straight cuts;				
	Note! Hold the work securely				
Shaping:	use a wood file or rasp as necessary				
	Note! Rasps and files only cut on the forward stork!				
Finishing:	use glasspaper with a block for all flat surfaces and edges, sheet glass- paper for curves				
Drilling:	Use a handbrace or pillar drill				
	Note! take care when driling to observe the following safety rules: tie all long hair back, clamp the work securely, wear safety glasses, remove all rings and jewellry.!				
	Drills - use the correct sitze, and make shure they are sharp				
Holding:	clamp all the work securely when assembling or gluing				
	bend the metal rod with pliers according to the pattern				

Description	Material	Quantity	y Size	Diagram	
Roof	Plywood	1	5 x 210 x 300 mm		
				(1)	
Wall	Pine	1	15 x 150 x 200 mm	2	
Perch and Dowel holder	dowel	2	10 dia x 200mm	3	D
	Pine strip	1	15 x 40 x 350 mm	4	
Skewer	Welding rod	1	3mm dia x 250mm	5	D
Hanger	Screw eye	1	8 x 20 mm	6 -0	
Exploded diagram					
	4			3	
((3)			5	

6. Planning overview

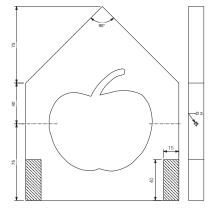
- 6.1. Making the wall
- 6.2. Making the perch and holder
- 6.3. Planning and making the roof
- 6.4. Constructing the skewer
- 6.5. Inserting the hanger and testing

6.1. Making the wall

6.1.1 Trace the pattern for the wall (page7) onto the pine (2)

6.1.2. Mark out and drill the 3mm holes

Note: Drill first and then cut out the shape



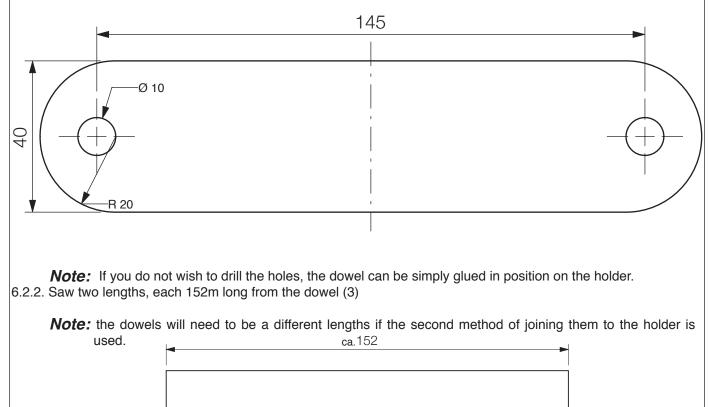
6.1.3. Saw out the shapes according to the pattern and clean up with glasspaper

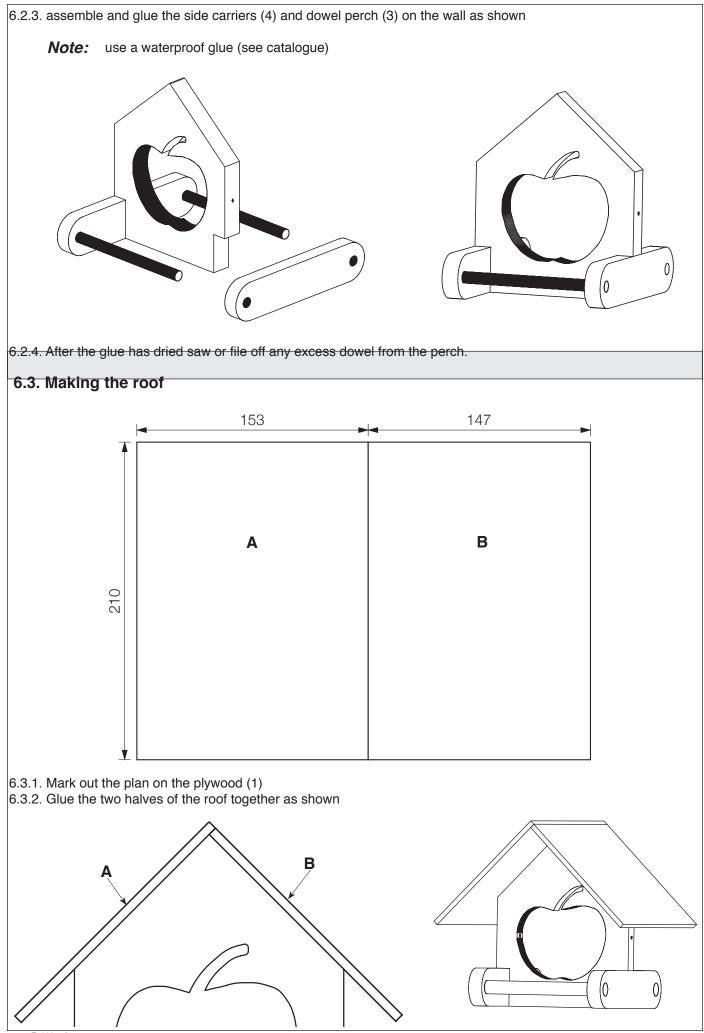
Note: To make the project simpler the cut out shapes in the wall can beleft out and the holders glued directly to the wall

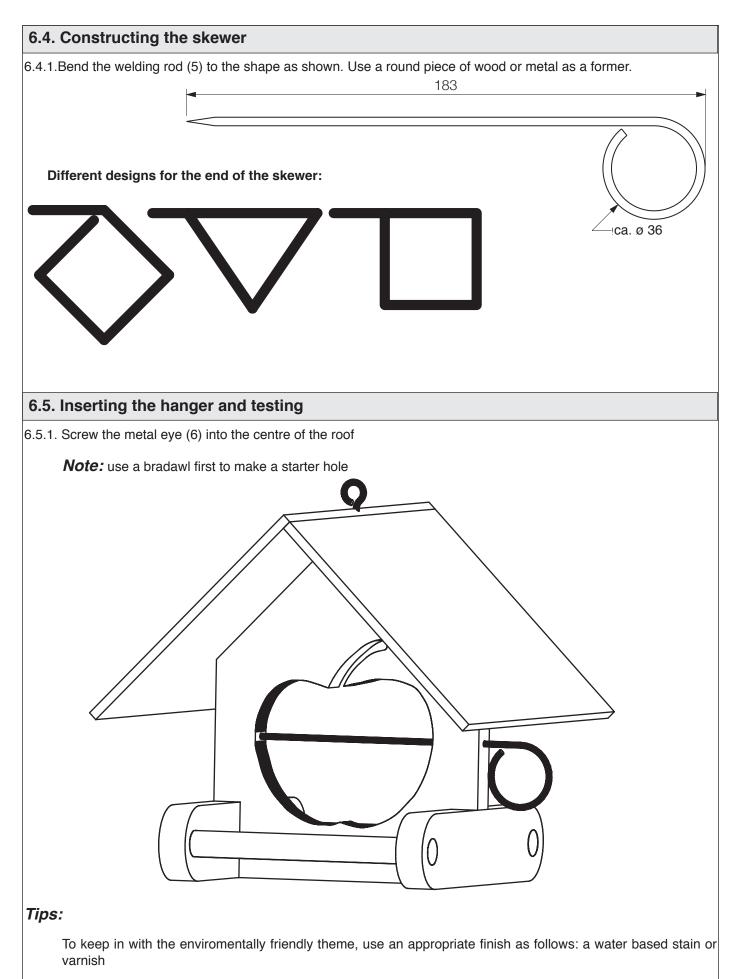
6.2. Making the holders and perch

6.2.1. Cut the pine strip (4) in half

Mark out the shapes as shown, drill the 10mm holes in the ends and then round the corners.







If you are going to paint any of the surfaces of the house mask out the other areas before starting.

We recommend using a linsed oil finish, adding as many coats as you can until no more is absorbed

