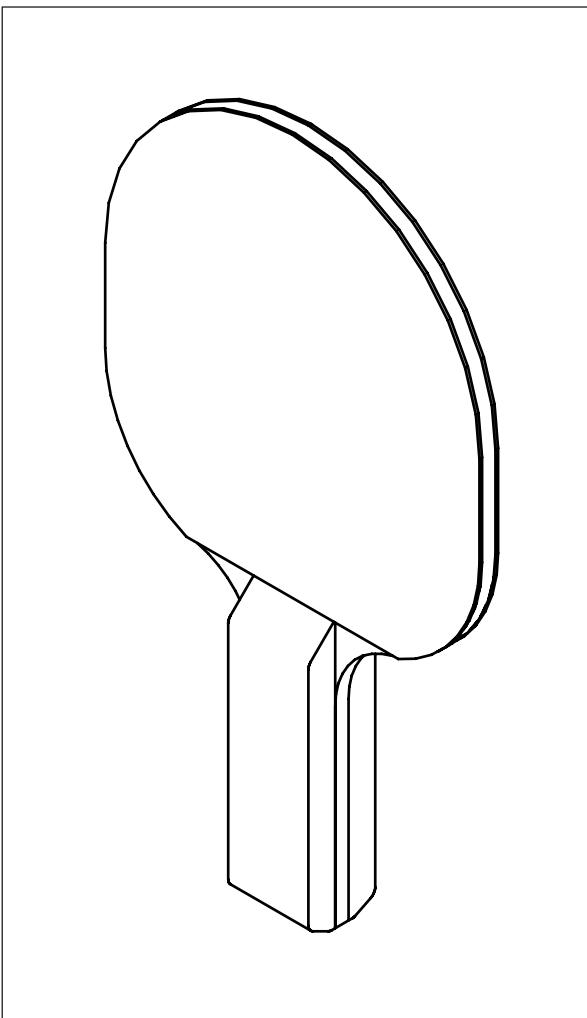


OPITEC

Hobbyfix

1 0 4 . 0 5 4
Ping Pong Bat



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 Technology. 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. Danger of suffocation!

1. Information

Article: bat
Age group: 9. - 10. years old

2.1. Materials:

plywood (poplar) 3 layers
grain set in opposite directions

Construction: The plywood needs to be cut out with a fret saw, sanded shaped and finished. Use patterns to realise shapes.

Joining: glue with PVA, between bat and handle

Surface finish: wax (liquid or solid)
varnish or paint
wood stain

2.2. Materials: cellular foam (thermoplastic)
(soft polystrol foam)

Construction: scissors

Joining: glue

3. Tools:

Sawing: fret saw for shapes, gents type saw for straight cuts.

Note! the fret saw blade teeth should face the front of the saw.

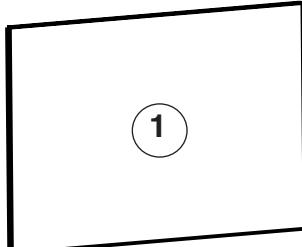
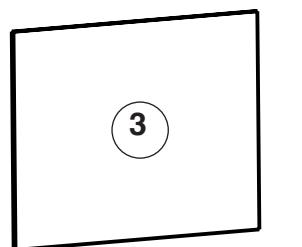
Use a fret saw sawing board and work with smooth careful strokes.

Filing: finish the shape with a wood file or glasspaper.

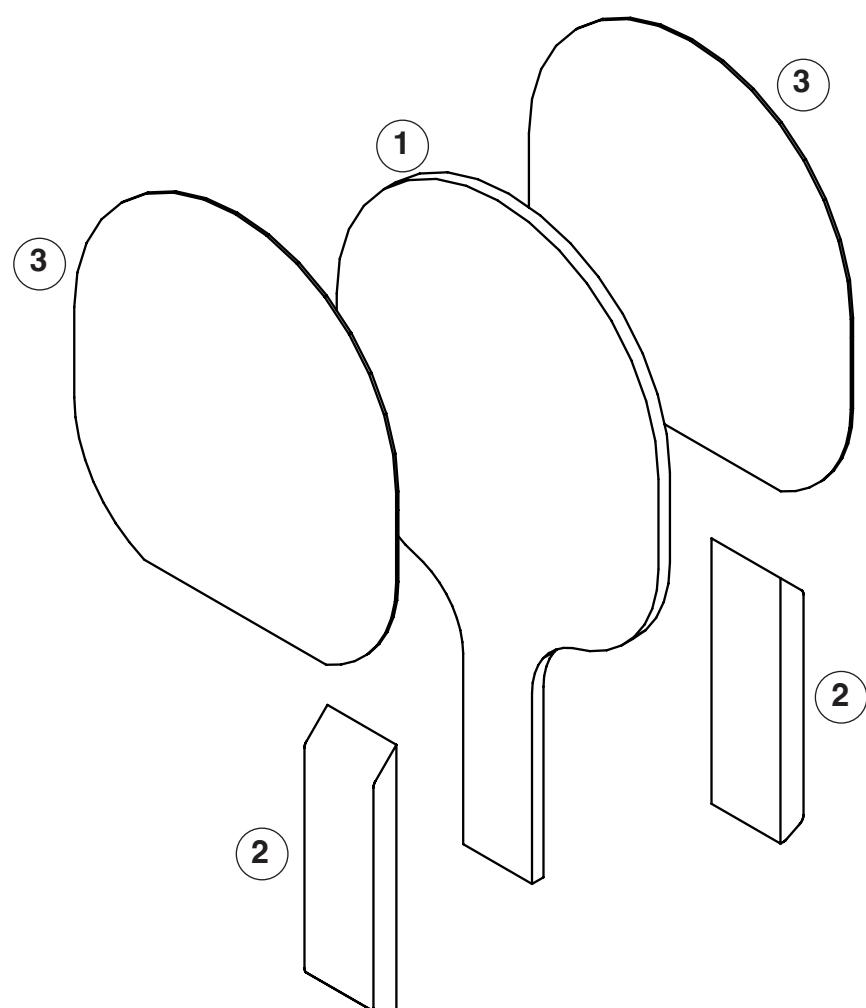
Note! files only cut on the forward stroke,

Sanding: block and glasspaper for finishing

4. Parts list:

Part	Material	No.	Diagram	Size
Bat	plywood	1		5x 150 x 260 mm
Handle	pine	1		10 x 30 x 200 mm
Face	foam sheet, red foam sheet, black	1 1		2 x 145 x 200 mm 2 x 145 x 200 mm
Ball	plastic	1		

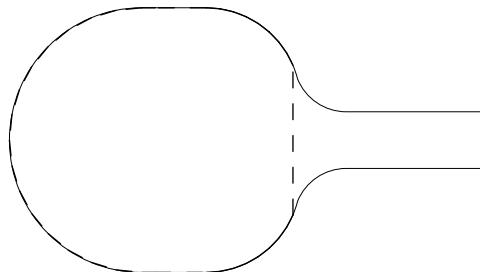
5. Exploded diagram.



6. Construction.

6.1 Transfer the pattern supplied or design your own on to the plywood (1) and the cellular foam sheet (3)

- the broken line on the pattern shows the face shape (foam sheet) draw x 2



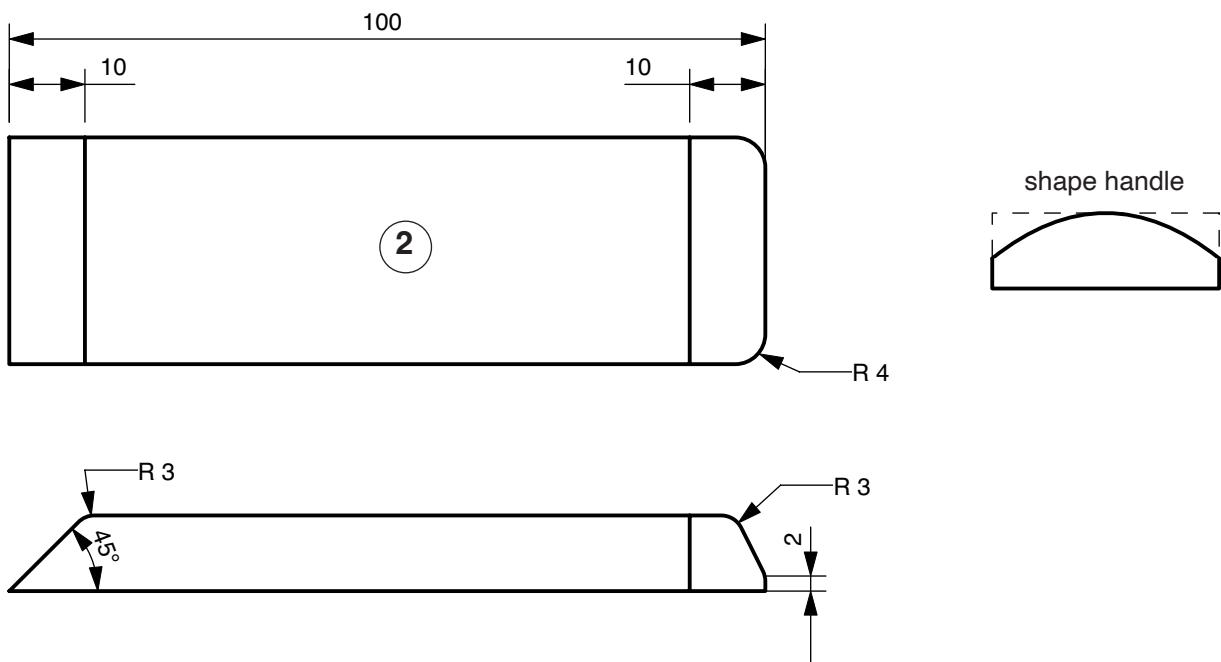
6.2. Saw out the shape of the bat

6.3. Finish and sand the shape

6.4. Cut out the cellular foam sheet with scissors

6.5. Handle

Mark out and shape the pine strip (2) to make up the handle (part 2) shape handle.

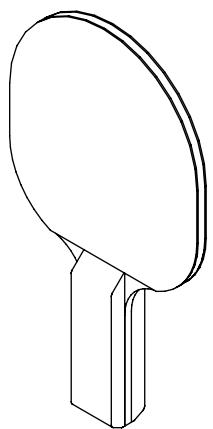


6.6. Glue the handle to the bat

6.7. Sand and finish the handle

6.8. Apply the foam sheet to the faces of the bat, front and back.

Tip: we recommend using UHU-por



7. Plan

scale1 : 1c

