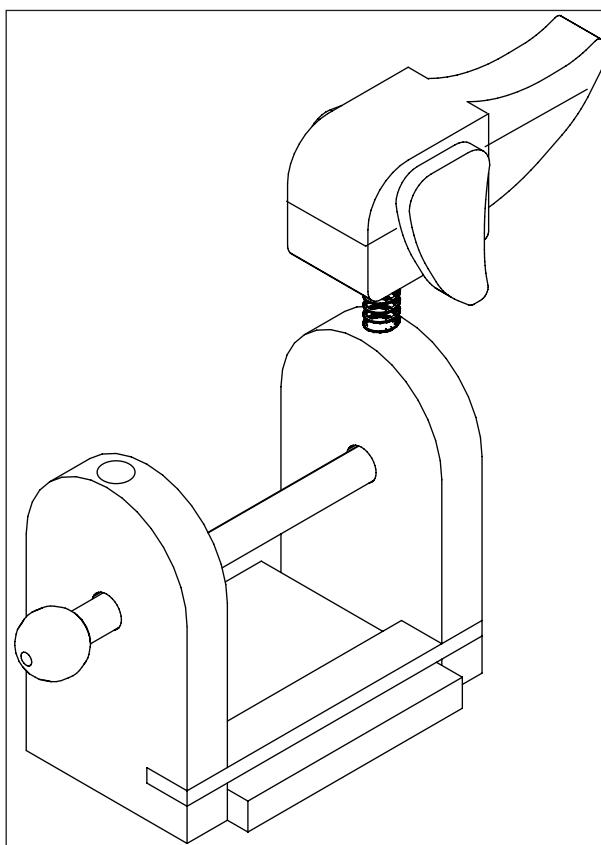




**1 0 0 . 1 4 6**  
*Office Roll 'Susie'*



**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!

**Warning!**

This product contains small parts that can be swallowed  
There is a danger of choking

## 1. Product Information

**Article:** Artefact for general use

**Use:** In Design Technology, Key Stage 3

## 2. Material Information:

**2.1. Materials:** Pine (conifer), softwood  
Beech (deciduous), hardwood  
Wood should be relatively dry before use

**Working:** Wood can be planed, sawn, shaped and drilled.  
Measure to size or use patterns

**Joining:** Use PVA white glue

**Finish:** Wax (fluid or hard):  
Wood varnish (clear):  
Staining (water soluable colour-finish with clear varnish)

## 3. Tools:

**Sawing:** *Fret saws* for all curves and round shapes that cannot be tackled with other types of saw.

**Note!** fret saw blades should be inserted with the teeth facing forward

Use a fret saw board saw with steady strokes, moving the work towards you as you go ;

**Shaping:** Use a rasp or wood file.

**Note!** these tools only cut on the forward stroke.

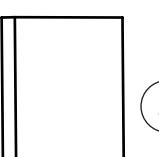
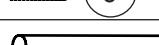
**Finishing:** Use a glasspaper and block for flat surfaces.  
Use loose sheet for curves.

**Drilling:** Use a pillar drill or hand drill

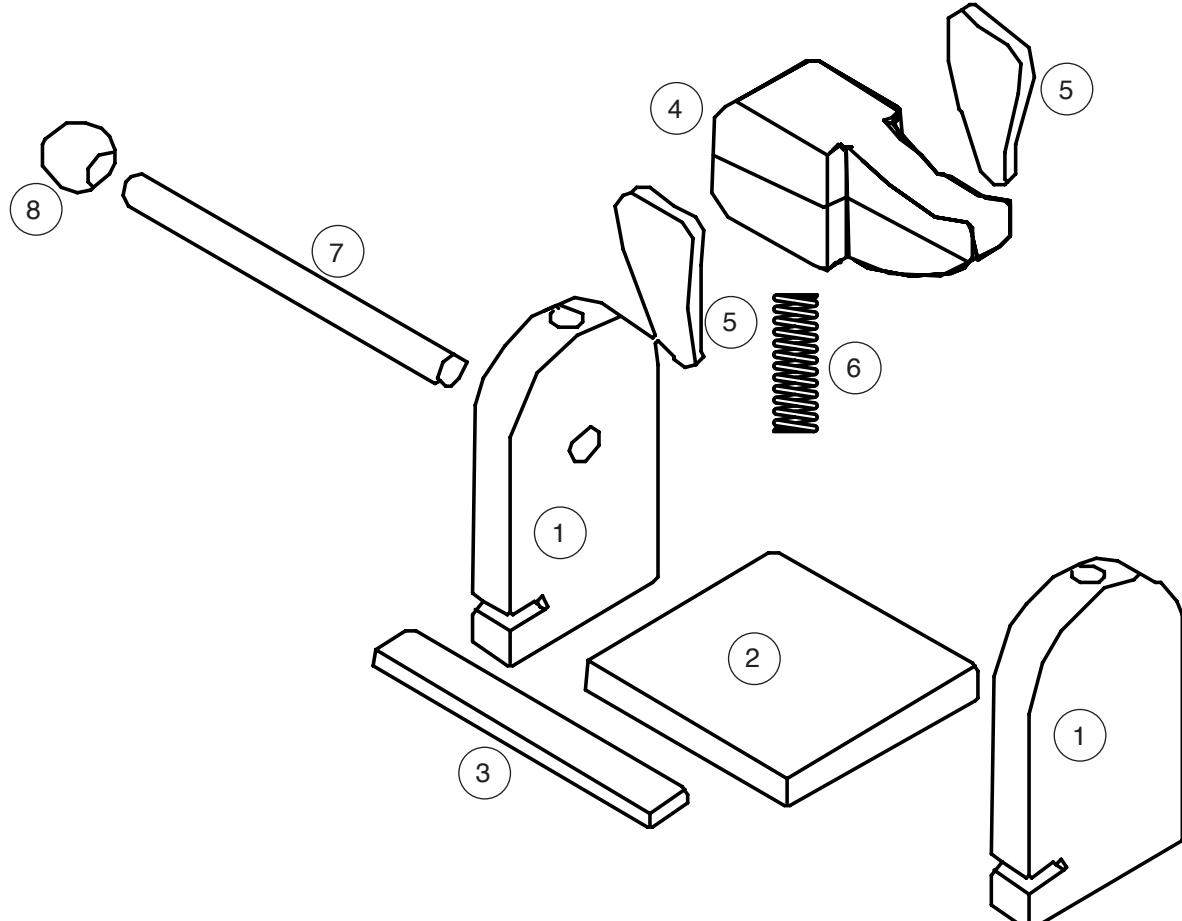
**Note:** the safety rules, tie all long hair back, wear safety glasses, wear an apron and remove all jewellery  
- hold the work in a hand vice.

**Clamping:** Use G clamps to hold your work whilst it is drying.

#### 4. Parts list

Part	Material	Quantity	Size	Diagram
Frame	Pine	2	15 x 60 x 100 mm	 (1)
	Pine	1	10 x 75 x 80 mm	 (2)
	Pine	1	5 x 15 x 125 mm	 (3)
Head or	Pine	1	30 x 40 x 100 mm	 (4)
	Pine	2	20 x 30 x 100 mm	 (5)
	Pine	1	5 x 30 x 100 mm	 (6)
	Spring	1	1 x 10 x 60 mm	 (7)
Roll holder	Dowel	1	10 dia x 125 mm	 (8)
	Wood ball	1	20 dia mm	 (9)
	Paper roll	1		 (10)

#### 5. Exploded diagram



## 6. Planning overview

6.1 Planning and making the frame

6.2 Making the head

6.3 Making the paper roll holder

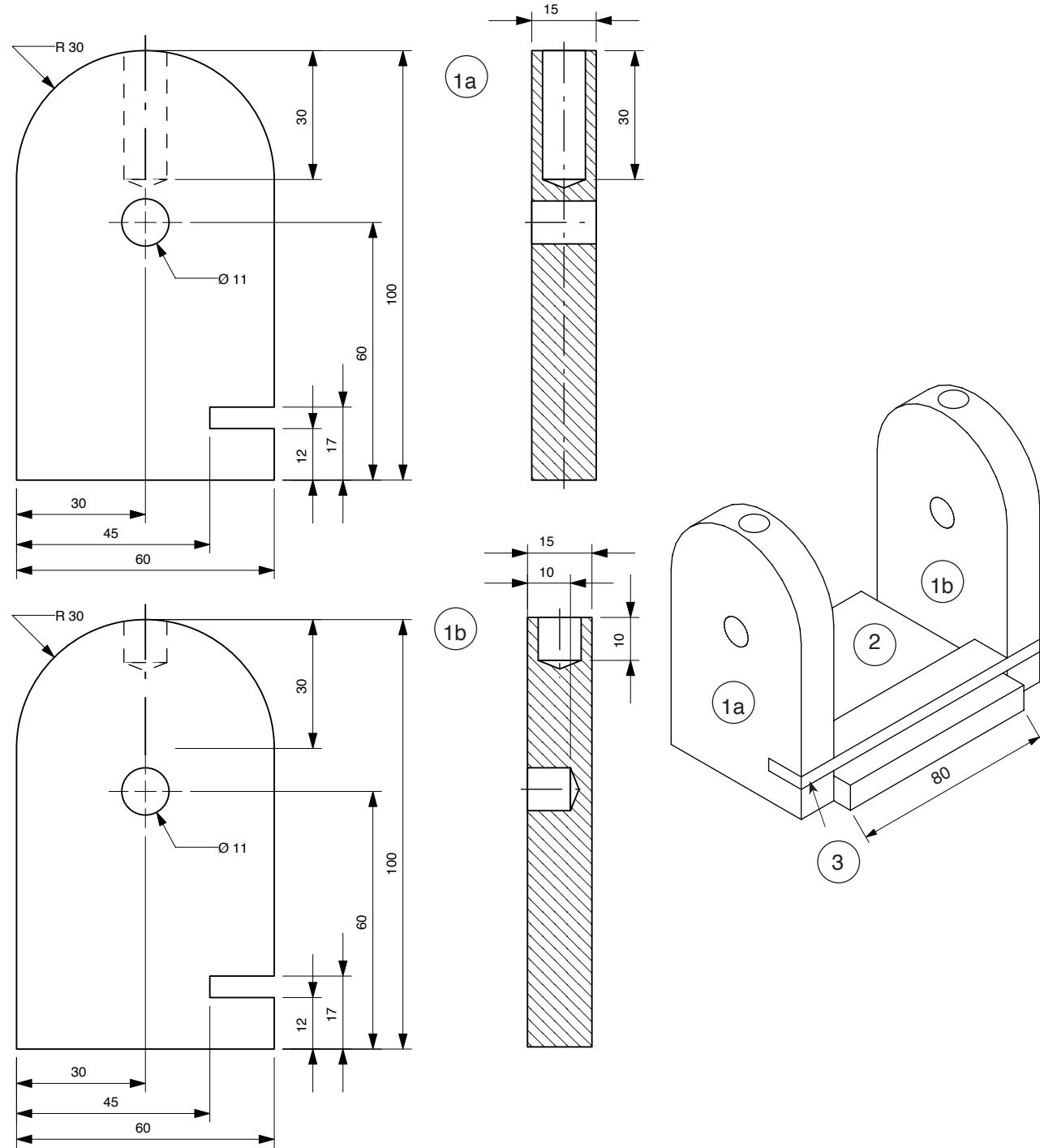
6.4 Assembling the parts

### 6.1. Planning and making the frame

6.1.1 Measure and drill the holes and slots in part 1, mark out and shape (saw) the ends.

6.1.2 Shorten the pine clamp strip (3) 5 x 15 x 125 mm to 110 mm long.

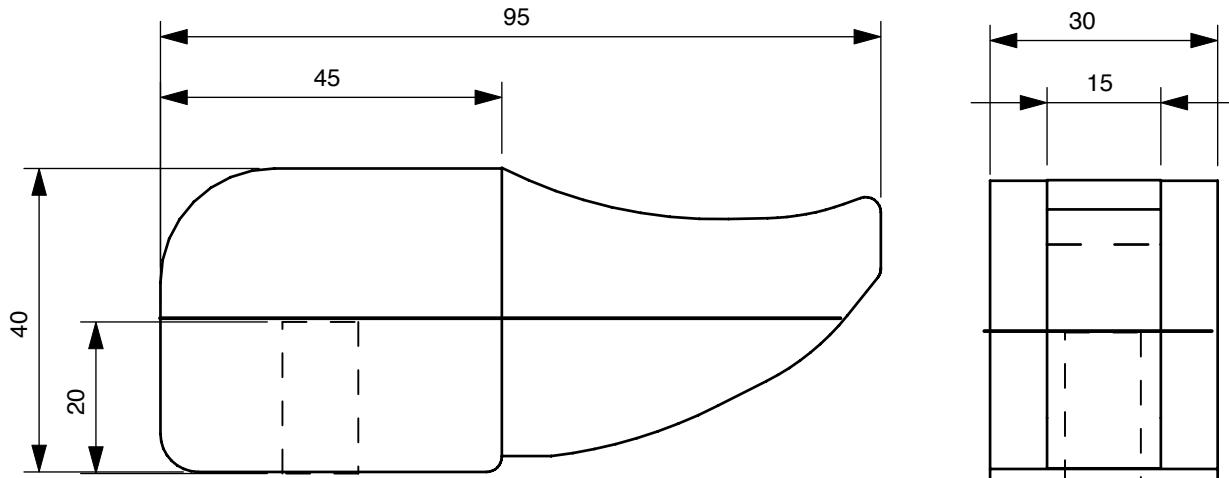
6.1.3 Assemble and glue the base (2) 10 x 75 x 80mm together with the pine strip (3) 5 x 15 x 110mm and the ends 15 x 60 x 100 (1a,1b) See diagram 3.



## 6.2 Making the head

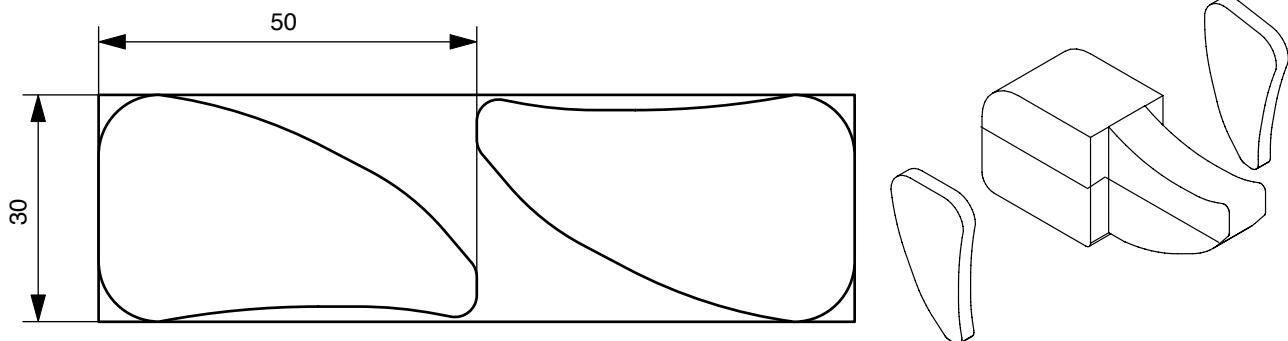
6.2.1 Glue the pine pieces (4) ( 20 x 30 x 100mm) on top of each other (30 x 40 x 100mm).

6.2.2 Once dry, drill the wood as shown in the diagram, and then shape of the head



6.2.3 Use the pattern to mark out the ears on the pine strip 5 x 30 x 100mm (5).

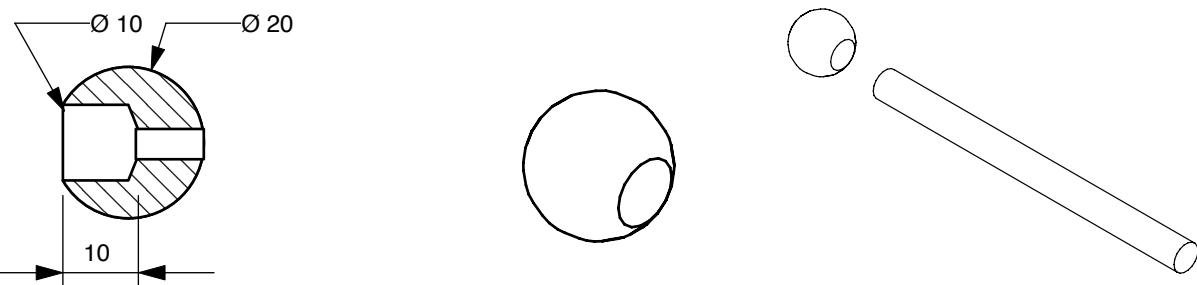
6.2.4 Glue the ears on to the head.



## 6.3 Making the paper roll holder.

6.3.1 Drill the 20 mm dia wooden ball (8) and fit it to the end of the dowel (7) 10 mm dia x 125 mm.

6.3.2 Glue the ball (8) and the dowel (7) Ø10 x 125 mm together to form the paper roll holder.



## 6.4 Assembling the parts.

6.4.1 Fit the head to the frame with the spring (6) (use glue)

6.4.2 Insert the dowel holder into the paper roll (9) to fix it in position. Thread the paper under the clamp strip.

