

Materials Used:

<u>Pine:</u> a natural softwood from the evergreen Scots Pine tree

Plywood: An engineered board, manufactured from lots of thin layers (plies) of wood glued together as a large sheet

<u>Acrylic:</u> A thermoplastic material; comes in many colours & easily cut or melted.

The Bird Feeder Project:

Making the Roof:

To cut & shape plastic like the acrylic top, we will need to use different tools.

- The *hacksaw* has smaller teeth than a tenon saw, so it's great for cutting hard, brittle plastics.
- To wear down the plastic, we can use *files*. This will be useful to add the curves & clean up the shape of the lid.

Making the Sides:

- We can make marking out the sides a lot quicker, by using a *stencil/template* to accurately get our markings this would be a complicated & slow process otherwise.
- We will need to accurately drill the holes for the roof to hinge in – an 11mm hole.
 We may use an *awl* to create a small hole where we need to drill first.
- To cut the curves we will use the *coping saw* – we will saw outside the line to get the rough shape, then file or sand away the rest of our waste to get an accurate

The Dowel Joint:

A Dowel is a small wooden peg, made to help join 2 project parts together.

A dowel joint is made by drilling holes with the same diameter as the dowels in each of the parts to be joined, then bonding them with glue to make a really strong joint.





We will use the **<u>Pillar Drill</u>** for drilling hole We will use a *Forstner bit* for drilling the

large hole (35mm diameter)

A *wood spur bit* will be used for drilling the dowel holes (6mm diameter)