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Created by Sean Evelegh

Japanese-inspired shelving unit

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Materials Required

3 x boards (22x90x2.5cm)
3 x boards (3.5x3.5x100cm)
1 x veneer (15 x 0.15
x120cm)
Wood glue
Screws
Finish

Tools Required

Jigsaw
Mitre saw
Drill
Orbital sander
Ruler, pencil, tape measure
Planer
Table saw
Router

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Step One: Measuring and marking.



Measure 3 shelves

Mark a line across the boards at 90cm.



Cut the shelves out of the boards

Use a jigsaw or a mitre saw to cut across the line.

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Step Two: Planing the boards.



Plane the cut boards for the shelves

You can use a planer-thicknesser for this step or, if you don't have one, use a hand plane.



Use a thicknesser to ensure the boards are flat

You don't need to follow this step, if you don't have a planer-thicknesser. Simply use your hand plane to make sure that the boards are completely flat.

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Step Three: Marking the inlays.



Use a flexible ruler to mark the curve

In order to create a pleasant curve for the inlays, use a flexible ruler, bend it away from you, against the board and follow the ruler to create one side of the curve.



Bend the ruler in the opposite direction

Bend the ruler the other way to create the other side of the curve. You can also draw the curve freehand, if you don't have a ruler.

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Step Four: Cutting the inlays.



Use a jigsaw to cut the curve for the inlay

Follow the curved line, that you marked, to cut the board in half.

Tip:

Don't follow the curve too closely, as you can end up cutting jagged lines. Use the marked line as a rough guide and try to match the flow of the curve.



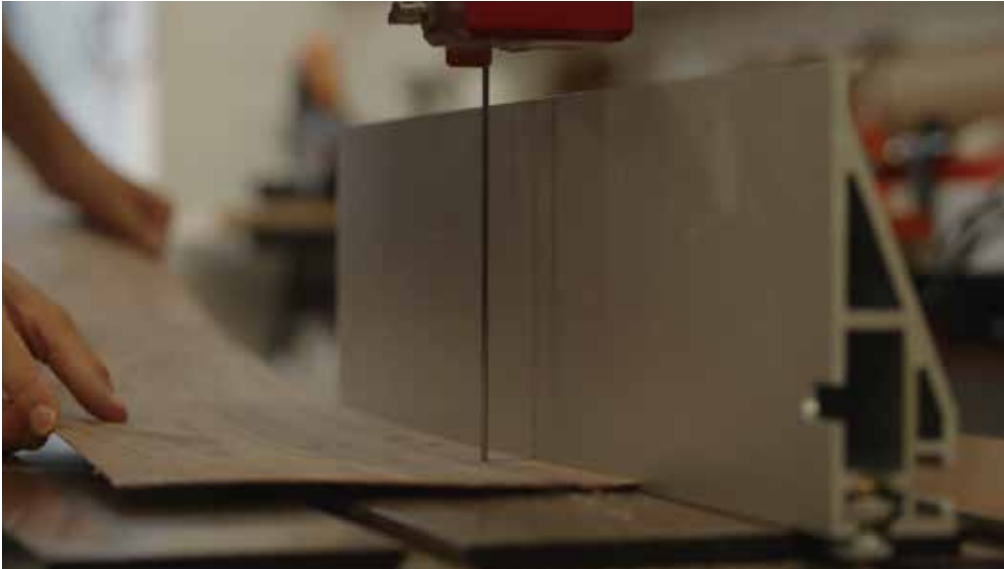
Place the veneer in between the 2 halves of the board

You have now cut out a channel in which you can place the veneer.

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Step Five: Gluing the inlays.



Cut a thin strip of veneer

On the bandsaw, you can cut strips of veneer to the same thickness of the boards that you are using.



Glue the veneer between the boards

Place a thin layer of glue on either edge of the board, place the veneer between the boards and then clamp everything together. Once the boards are clamped, scrape off any glue that may have squeezed out.

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Step Six: Finishing the shelves.



Create a curved end on the shelves

Use a large, circular object (such as a bowl) to help mark a curved edge on one side of the shelf. Cut out this curved edge with a jigsaw.



Use the cutout to mark the other side of the shelf

Place the piece that you have cut off one side of the shelf, on the other side, to mark out the next curved edge and cut out.

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Step Seven: Cutting the legs.



Mark the legs

Take one of your 120cm boards and mark 90cm from one end.



Cut the legs

Once you have marked all of the legs, cut the legs on the **outside** of the line that you have marked.

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Step Eight: Drilling holes for the legs.



Prepare for drilling holes in the legs

Mark 6cm from the edge of one of the legs and mark across all 4 pieces (this is where the drill holes for the first shelf will be) mark 30cm from that line, for the next shelf and then another 30cm for the final shelf. On the marks for the shelves that you have made, mark 11mm from each edge, to show where your drill holes will go.

Measure 15mm from the end of your 10mm drill bit and add some tape to ensure that you don't drill down too far.



Drill the holes

Once you have drilled the 10mm holes, into your drill marks, you can use a smaller drill bit to drill the holes for the screws.

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Step Nine: Drilling holes in the shelves.



Mark the shelves for the legs

The legs are inset 12cm from the edge of the shelves so mark a line, across the shelves, at this distance from the edge. Do this on both sides of the shelf. measure 10mm from the edge of each shelf, on these lines and mark your drill holes.



Drill the holes on the shelves

Line up the drill holes that you made on the legs with the marks that you made of the shelves and clamp a set square to the shelf to hold the leg in place. Drill through each of the holes, in the legs, into the shelves.

Once this is done, you can use a router to create a chamfer, on all of your pieces, using a router or a router table.

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Step Ten: Assembly.



Add glue to each of the drill holes

Pour some glue into each drill hole and then line up your pieces, ready for drilling.



Assemble the shelving unit

Put all of the pieces together and drill all of the screws into the drill holes.

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Step Eleven: Conclusion.



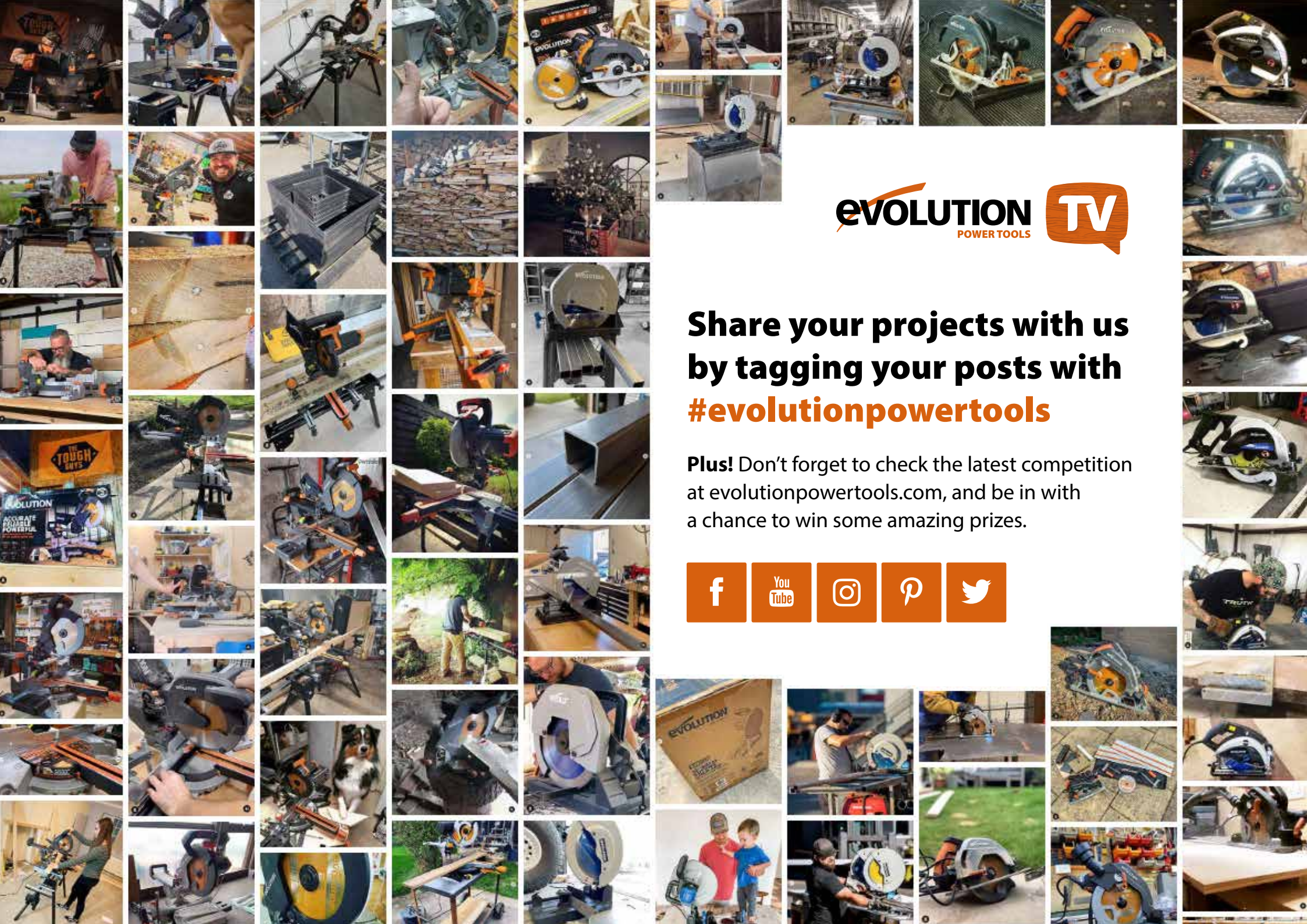
Cut and glue plugs

You can use a plug cutting drill bit to create plugs for the screw holes. drill these into a piece of wood and then cut them out. Place a dab of glue onto each plug and place them into the screw holes.



Sand the whole shelving unit

Using an orbital sander or sanding block, go over the whole shelving unit to ensure the whole thing is smooth. You can then add finish to the shelving unit.



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