# Sunset Serving Tray



| STUDENT NAME | | | PROJECT NAME Sunset Serving Tray | |
|---|---|---|---|---|
| No. of Pieces | Thickness | Width | Length | Description:(include part |
| 2 | 1 | 2.5 | 29 | A, Bottom, Maple |
| 2 | 1 | 2.5 | 29 | B, Bottom, Mahogany |
| 2 | 1 | 2.5 | 29 | C, Bottom, Walnut |
| 2 | 1 | 3 | 21 | D Sides, Walnut |

**Step 1:** Get permission to grab a piece of walnut, maple, and mahogany from the back.

**Step 2:** You will need to search the wood room for pieces that are between **5.5” Wide but no more than 6.5” wide.**

**Step 3:** Once you have The correct sized Walnut, Maple, and Mahogany boards you may cross cut each board at **30”** on the Radial Arm Saw.

**Step 4:** Return left over boards to back room.

**Step 5:** Joint one edge and one face of each species until clean; place a checkmark on them.

**Step 6:** Go to table saw. Put jointed edge against fence and use the rip blade to rip two strips from Maple board at **2.5”**

**Step 7:** Rip Mahogany board twice at **2.5”**

**Step 8:** Rip Walnut board twice at **2.5”**

**Step 9:** Skip the surface planer and go directly to the glue table.

**Step 10:** Grab four alike bar or pipe clamps and lay your pieces out according to the picture above. (Or custom pattern that you designed)

**Step 11:** After you checked to make sure strips are in proper order, glue the panel together with the rough faces up and smooth (jointed) faces down. Be sure ends are lined up at one end before you tighten all the way.

**Step 12:** WRITE YOUR NAME CLEARLY ON TOP OF PANEL. Let dry overnight.

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**Step 13:**Get permission to select more walnut for Part D Sides

**Step 14:** Search the wood closet for a piece of walnut that is a minimum of 6.5” wide.

**Step 15:** Use the Radial Arm Saw to crosscut the walnut at **22”** rough cut. And return leftover piece to wood closet.

**Step 16:** Joint one edge and one face of walnut until clean. Use a check mark to mark your squareness.

**Step 17:** Use planer to surface plane pieces down to **.75” thick.** Use a caliper.

**Step 18:** Remove big panel from clamps and put clamps away.

**Step 19:** Use glue scraper to clean bottom of tray.

**Step 20:** Use surface planer to plan bottom of tray to **.75” thick.**

**Step 21:** Use table saw to rip side pieces (Part D) at **3.0” wide**. You may need to rip them down to 2.75” later on in the assembly process.

**Step 22:** Lightly square off both ends of tray bottom with Radial Arm Saw. Tray bottom should equal about **28”** in length.

**Step 23:** Show Mr. R your bottom panel squared off at 28” for your post test checkpoint. Also have your 22” pieces squared off and ready at the same time.

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**Step 24:** Use table saw crosscut blade and rip fence to chop 4.25” from each end of the tray bottom.

**Step 25**: Now we are ready to use the .75” dado head to cut a ⅜” deep dado into our handle bottoms (if your panel is .75” thick). See Mr. R’s live demo. Use a ⅝” wide dado head if your pieces are ⅝” thick. Cutting height 5/16”

**Step 26:** Place your handles into the handle jig with the dado face up at the bottom, lock clamps into place, and trace end handle pattern on to your end pieces.

**Step 28:** Trim off excess on handles at band saw. Throw away scraps. Do not cut pencil line.

**Step 29:** Use the handle jig and router table to flush trim the outer profile of handles to final size.

**Step 30:** Use .75” or .875” forstner bit to drill out finger area for handles.

**Step 31:** Use handle jig again to flush trim finger area. Be sure dado is face up and toggle clamps are tight.

**Step 32:** Use a table router to round over the inside and outside outer handle profiles and the inside and outer finger cut away area with a ⅜” roundover or less.

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**Step 33:** Gently set your left and right handles on top of bottom panel. Carefully measure outside to outside of handles to determine how long your Part D's final length will be.

**Step 34:** Measure again to be sure, then cut Part D pieces equally on Radial Arm Saw.

**Step 35:** If you need to trim Part D from 3" wide down to 2.75", now is the time to do so.

**Step 36:** Go back to dado saw and cut a .75" wide by .375" deep groove along bottom of Part D's. Be sure to put the nice face, face up and the ugly side against the dado head.

**Step 37:** Use the miter gauge to cut a dado at both ends of Part D's.

**Step 38:** Take all your pieces to your workstation and do a test fit using pipe clamps or blue Irwin Quick Grip clamps.

**Step 39:** Show your "dry test fit" to Mr. R so he can approve you to glue the tray together and assist you if necessary.

**Step 40:** You must sand 80-120-220-400 the tray bottom surfaces and handle surfaces **BEFORE** gluing the tray together. **DO NOT SAND EDGES.** If you sand edges, your project will not stay square.

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**Step 41:** Carefully apply a small bead of glue along the dados of your “D pieces” and your handle pieces. Use your finger to smoothen out the bead of glue. Try not to make a mess for yourself later. Allow project to dry overnight.

**Step 42:** Put your clamps away and scrape off any remaining visible glue.

**Step 43:** Use the air grinder sander to blend the transition between the handles and Part “D”. Be sure to work through the grits. Do not use the air grinder sander on large surface areas. (The sander will make awful marks).

**Step 44:** Now you may sand the exterior of your tray starting with 80 grit and ending with 400. Use the air nozzle to blow the dust off your project.

**Step 45:** Get permission to put a clear finish on your tray. Your options are polyurethane, Watco Butcher Block Oil, Watco Danish Oil.