

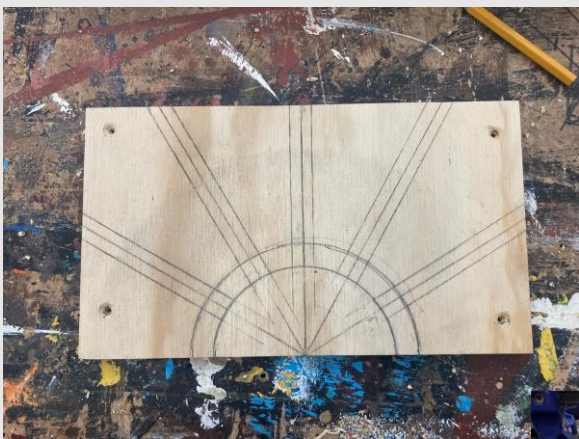
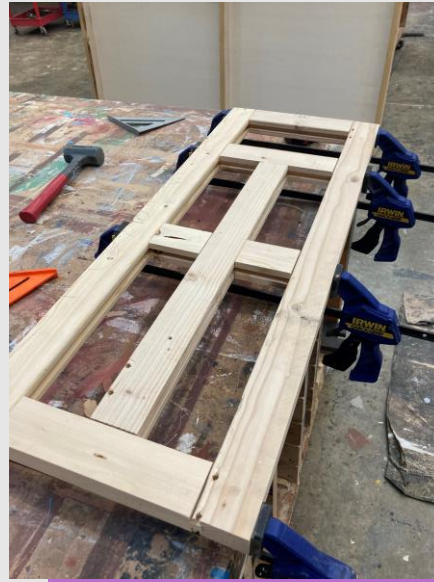
# Project - Half Scale Door

Advanced Scenic Technology  
Spring 2022

For this project, the assignment was to draft up a scaled version of a door, specify our needed lumber, and then build and assemble the door.

For my door, I ended up using the front door of my childhood home, being a panel door with a top window with a 5 fingered mullion arch. For the final product, the goal was to create a single sided, scaled rendition of this door.

To start, once drafted, scaled, and materials were ordered, I began with building the outer and inner frame, using tongues and grooves to connect the framework together.



Using tongue and grooves that were  $\frac{3}{4}$ " was the best joining technique not only to have clean and strong connections, but to also allow for  $\frac{3}{4}$ " plywood to be slotted into the grooves to begin the inside panel inset. The top opening was filled with a piece of acrylic, spaced out to fit the groove perfectly, leaving the window flush with the plywood panels.

Once assembled, the panel openings were routed out to have the rounded inset for the panels. The mullion arch was traced onto another piece of plywood, cut out with a saw, and then attached with tiny machine screws through the acrylic.

To finish the door, small angled lauan panels were glued to the plywood panels to finish the paneled door look.