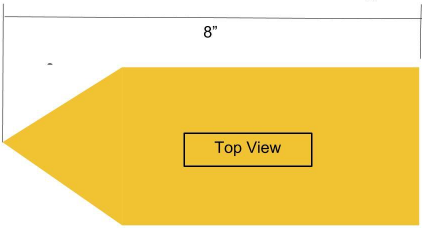
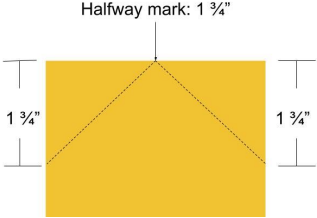


Wooden "Fan Boat" Project

You will construct a wooden "Fan Boat" (think Everglades) using scrap wood [2x4 and luaun] from Theatre scrap stock. You will be using a **cross-cut miter saw**, a **tape measure**, a **jig saw**, a **sander**, and a **drill/screw gun**. You must read the following "blueprint" and instructions to figure out how to build the boat. You must complete this project to show competency with tools and to earn more interesting projects.

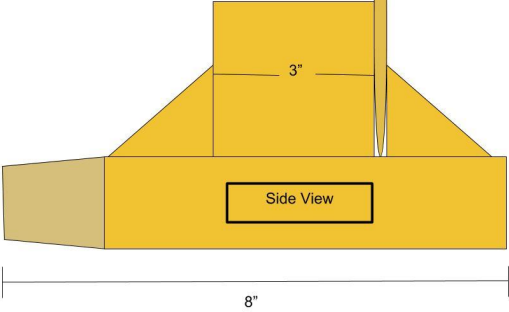
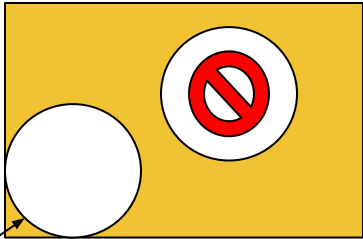
Base of Boat

- Find a piece of 2x4 that is **slightly longer than 8"**.
- Measure the halfway point of 2x4 and mark it (remember it is not actually 2" by 4"). Then measure the same amount down on either side of 2x4 and mark it. Make sure you mark at the edges of the 2x4. Using a straight edge, mark the lines to be cut.
- Using the miter saw at the 45° mark, cut the front angles off of the base. Make sure you follow your marked lines and not just follow the 45° mark on saw, otherwise your angles will be uneven. **SAVE THE PIECES YOU CUT OFF.**
- Measuring the base *from the tip*, mark 8". Cut the base piece.



Middle Pieces

- Luaun Circle (roughly a 5" circle)
 - Using a large yogurt or quart sized paint can lid, trace the circle onto a scrap piece of luaun. **Remember to find the smallest piece that will accommodate the circle AND to trace near the edge of the luaun so as to not waste wood.**
 - Use a jig saw to cut out circle. Remember to steady the wood and cut near or on the line.
 - Use a sander or sandpaper to even out the circle and remove rough edges.



- Cut a 3" piece of 2x4. Screw it in from the bottom. Make sure it is sitting so it has a 3" width **NOT HEIGHT**. If you have the "rough" cut edge facing up, you have it the wrong way. *Rough=Wrong*
- Using the 45° angled cut pieces from the base, screw one triangle in front of the 3" piece. Screw the Luaun Circle onto the back end of the 3" piece. Screw in the second triangle **BEHIND** the luaun circle.
- Triangles can be screwed in at angle OR from underneath. The triangles often crack, if they do, then make some more using another 2x4.

Notes:

- Use **3" screw** to attach the 3" piece of 2x4 to the base. Screw in from the bottom.
- Use a **1" screw** to attach luaun circle to the 3" block.
- Use **2" screws** to attach the 45° triangles.

