

# Boat Building Project



## Let's go sailing!!

In this project we will create your own model sailboat using wood, cement and Styrofoam for materials. You will learn how to use drills, bandsaws, scrollsaws and a variety of hand tools.

## Materials

Styrofoam Insulation - Hull

Plywood - Deck

Solid Pine - Cabin, Bowsprit, Mast Stay, Keel holder, Display Stand

Concrete - Keel

Doweling - Mast, Boom

## Design and Build

### Hull Parts

For this project we will be following a set plan with a pattern for most of the wooden components. You will trace the patterns onto the appropriate materials and cut them out using the bandsaw and the scroll saw. You will then sand them to final shape using 100 grit sandpaper and then use a 220 grit to prepare for the finishing process. You should have 5 parts ready for assembly before you glue the Styrofoam is glued and clamped in place. The foam must dry overnight before the excess is cut off with the bandsaw and some preliminary shaping is done with the files and rasps.

### Display Stand

You are provided with 5 pieces – a base, 2 ends, and 2 side fill pieces. You must cut the ends in a shape that supports your hull. Assemble the ends to the base with two 1 ½ ” nails and glue on each end. Cut the filler pieces to the desired shape and then glue and nail them in place. Finish sand the entire piece to prepare for finishing.