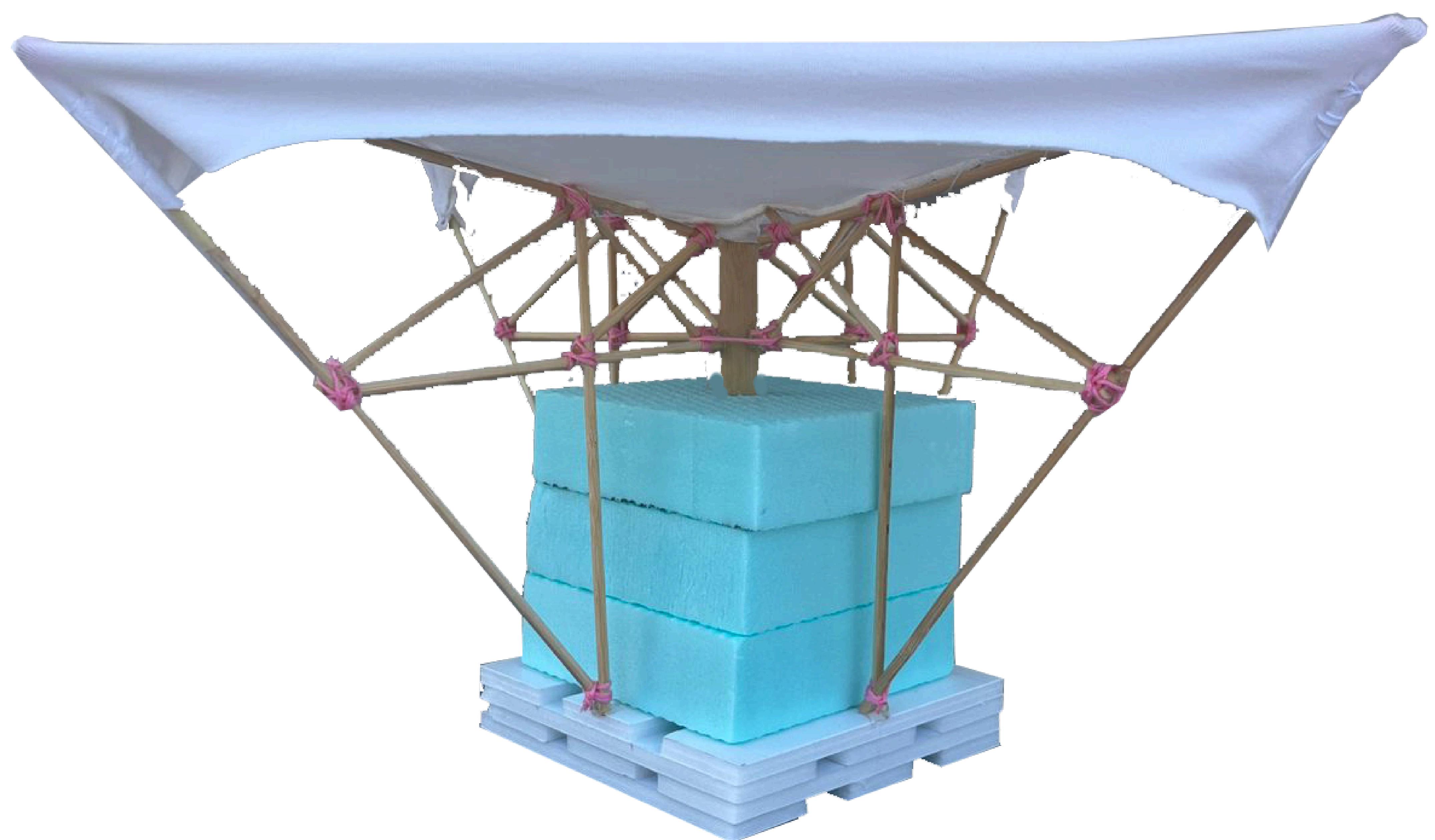


WATER COLLECTOR MODEL AND MANUAL OF MAKING



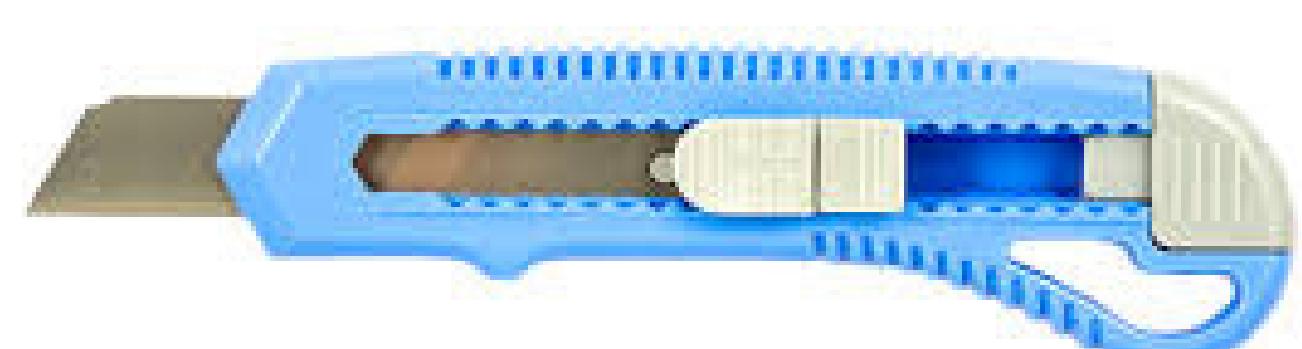
WATER COLLECTOR TOOLS AND MATERIALS



Silicone hot glue gun



Scissors



Cutter



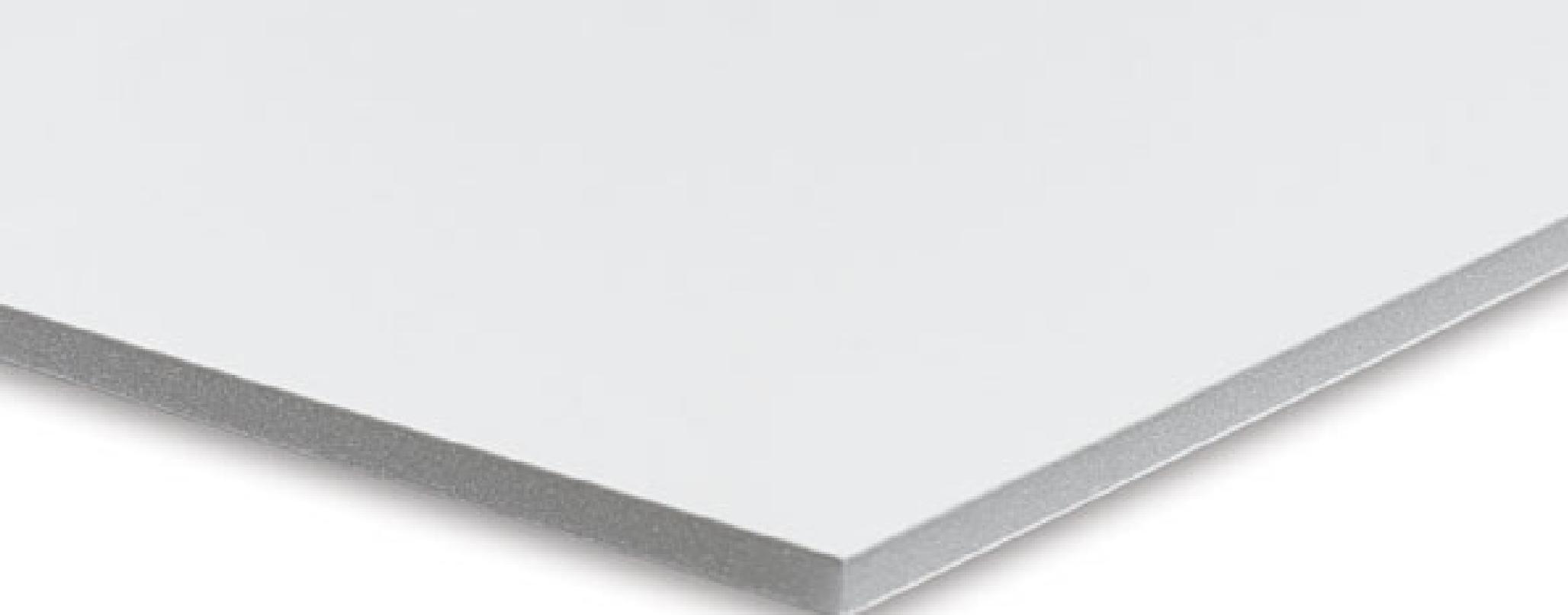
Masking tape



Wooden Skewers (24pcs)



Bamboo Straw (1 pc)



White foamboard (5mm)



DOW Styrofoam



Needle and thread



Twine



Polyester - nylon elastic fabric

WATER COLLECTOR

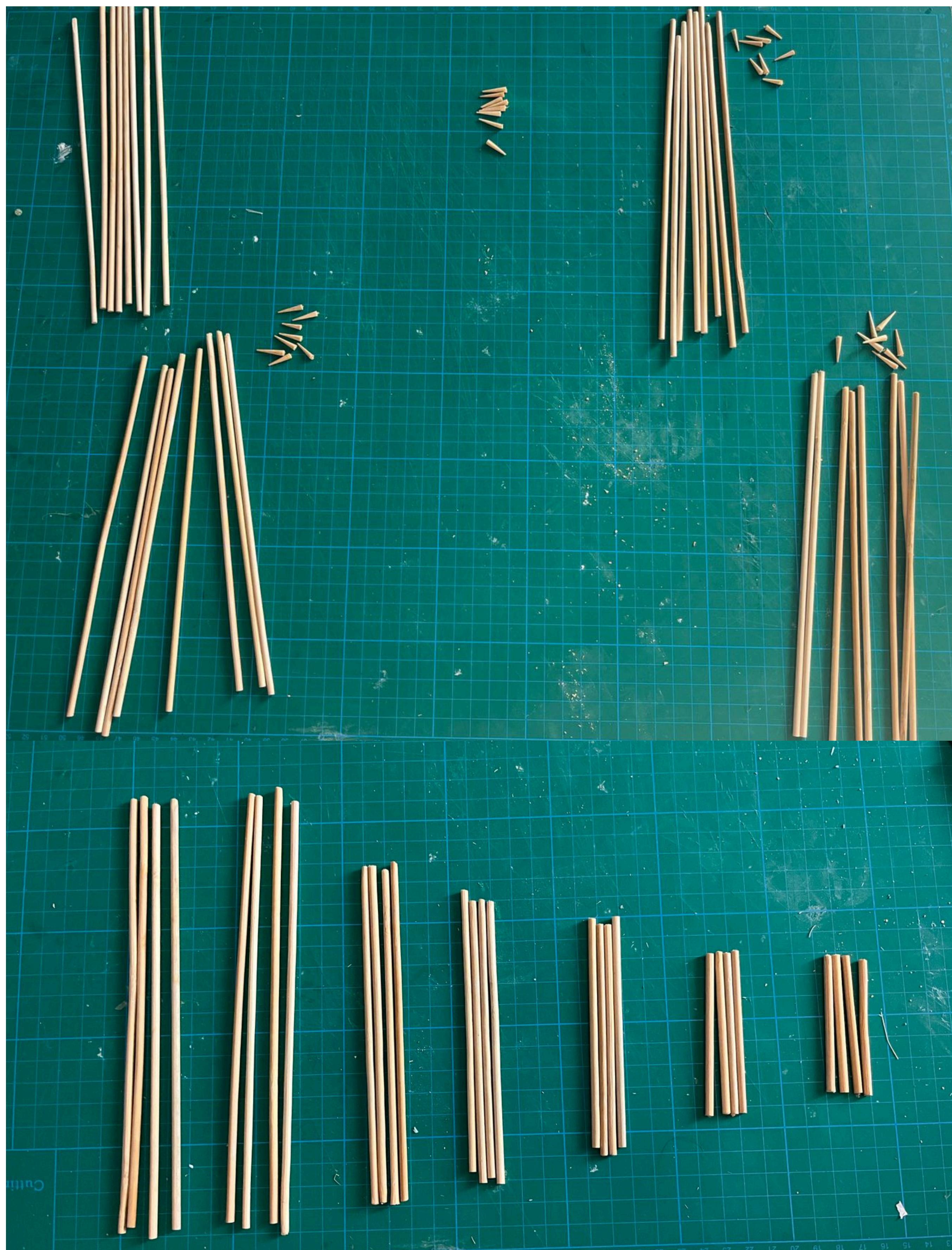
STEP 1



Cut a dow piece that will show case the water tank. Since we are working on a 1/10 scale the measurements of the cube should be 10cm x 10cm x 10cm. Add a hole on the centre of the cube that fits the central pipe.

WATER COLLECTOR

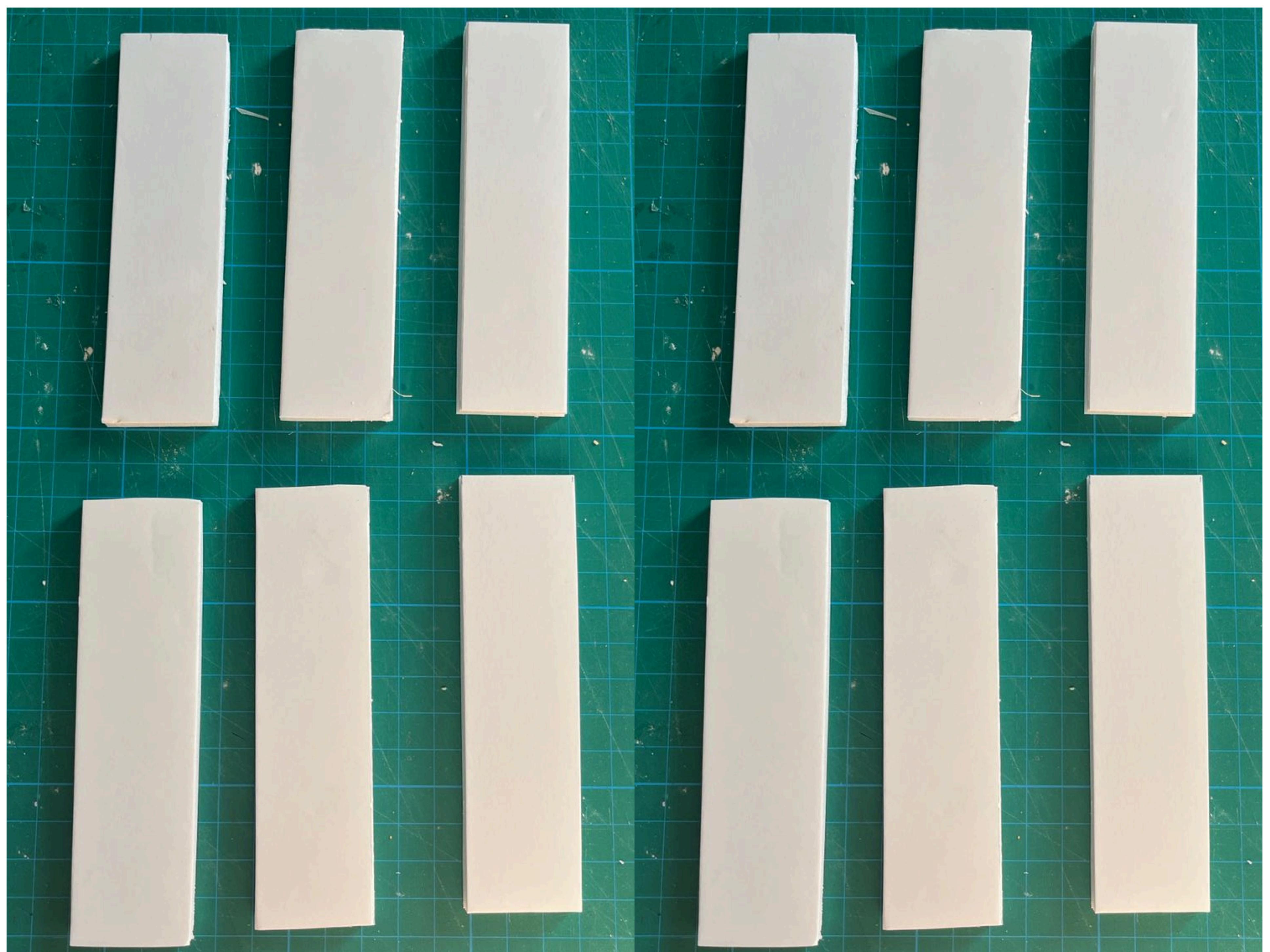
STEP 2



Remove the pointed tips from the skewers and cut them to the required length according to the design. The most helpful drawing for this would be the side view.

WATER COLLECTOR

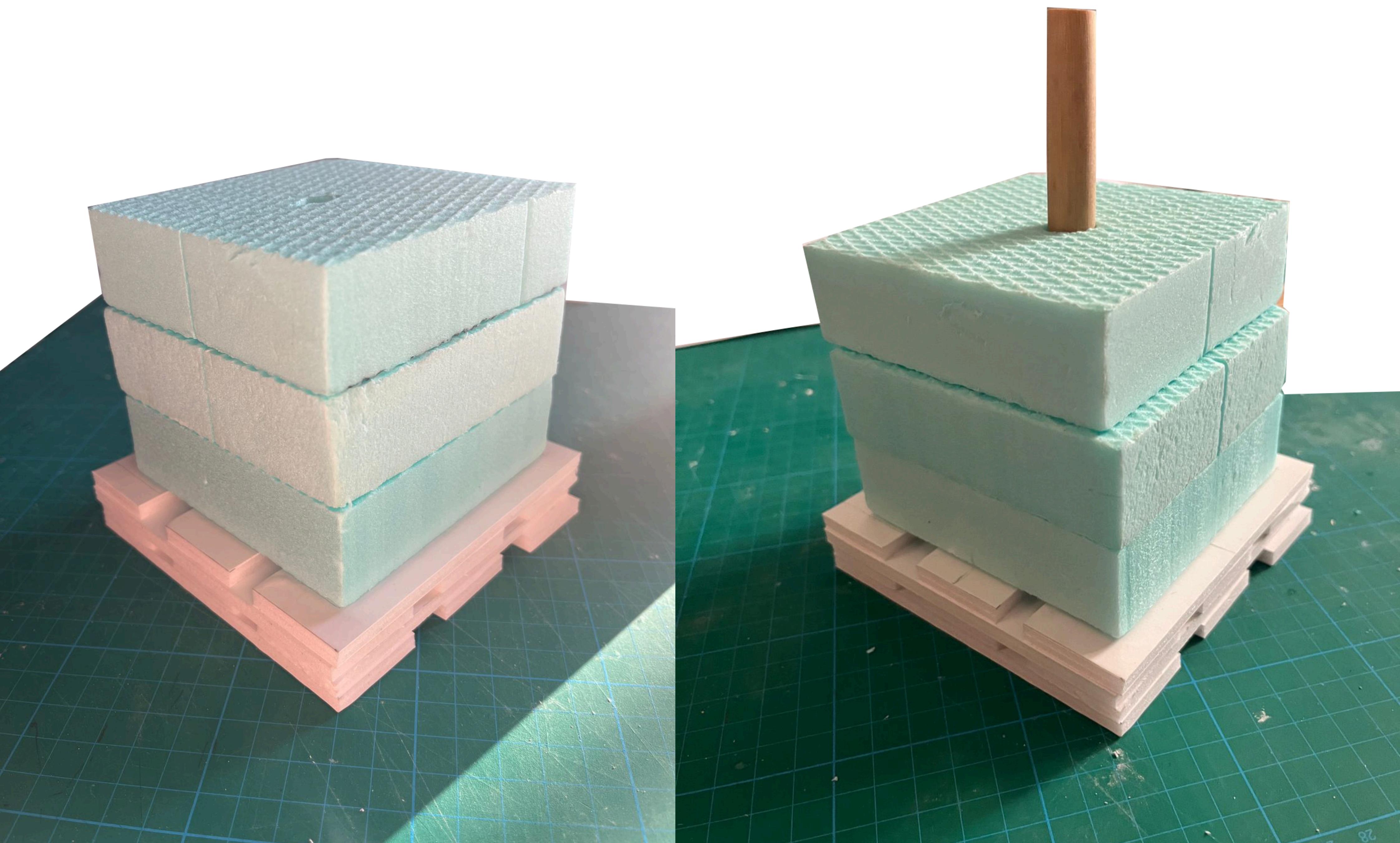
STEP 3



For the wooden palette as our base, cut the following pieces of the white card board paper and stick them together as shown to the drawings.

WATER COLLECTOR

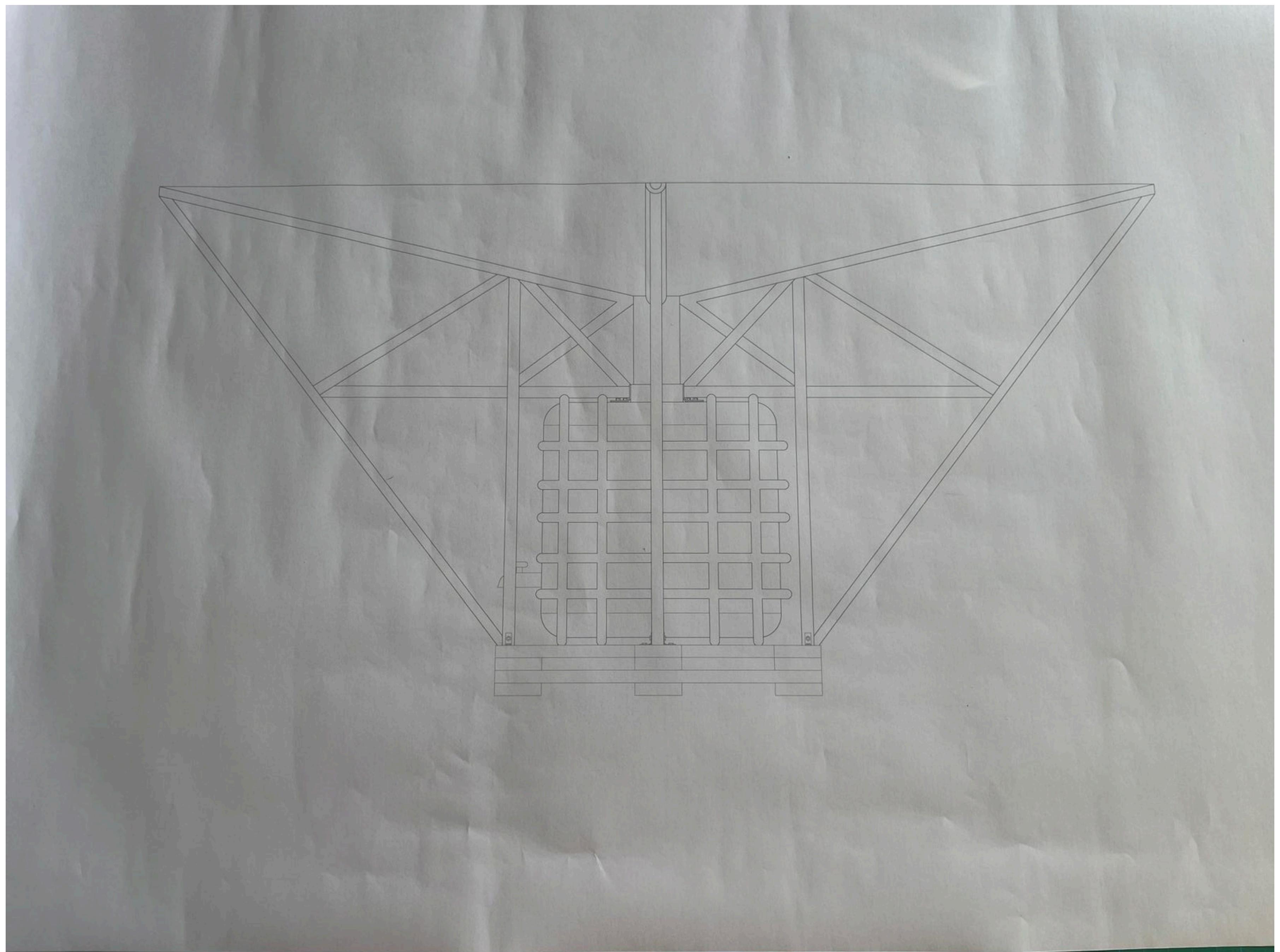
STEP 4



Add the dow material that showcases the water tank on top of the cut and glued base. then glue the two pieces together. Next we add threw the hole that we made on the dow material, the central pipe.

WATER COLLECTOR

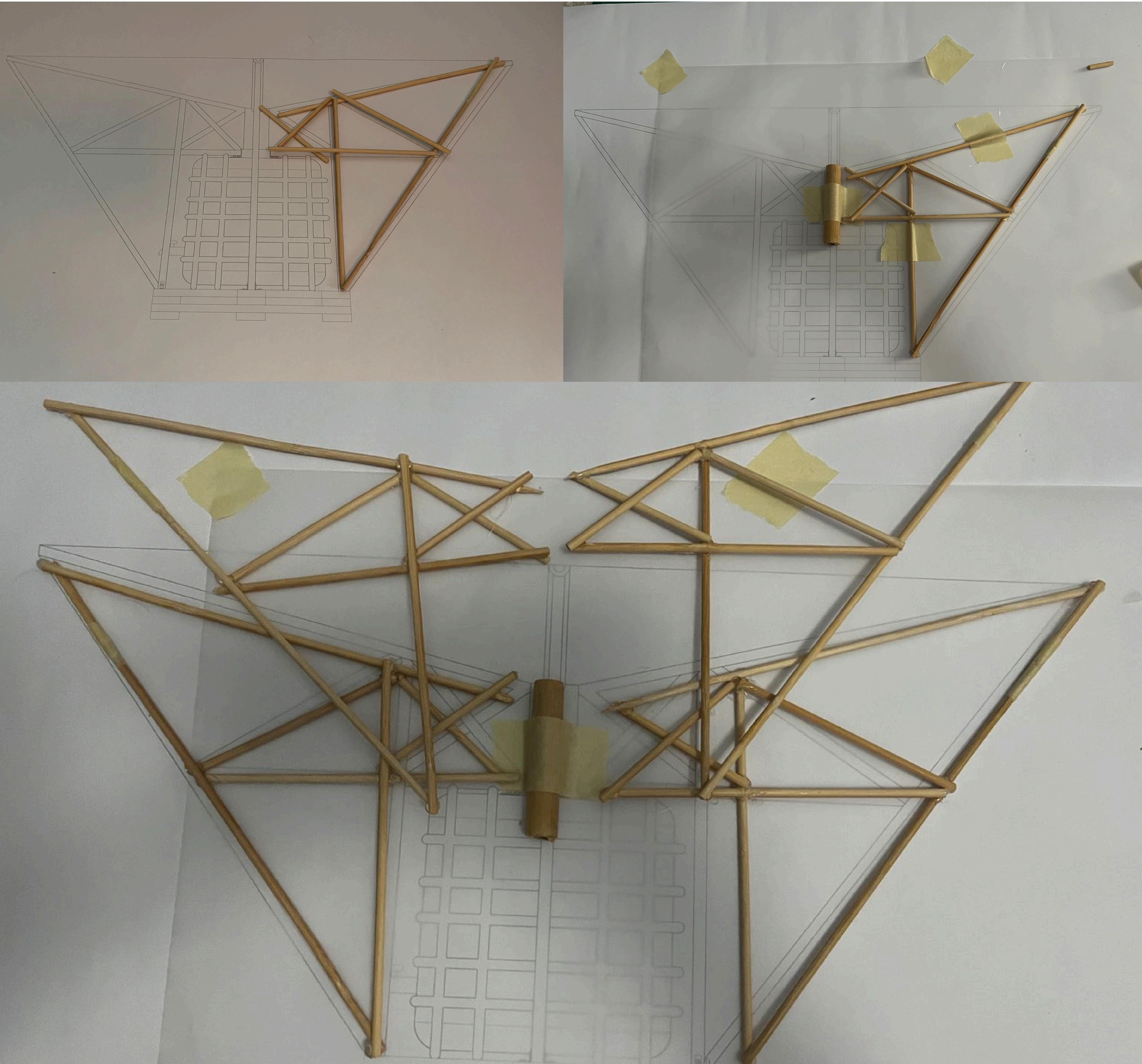
STEP 5



Print in the correct scale (1/10) the side view of the construction. It is going to help us assemble the frame from sticks. On top of it add a non-stick paper so you can glue and remove easily the sticks from the drawing.

WATER COLLECTOR

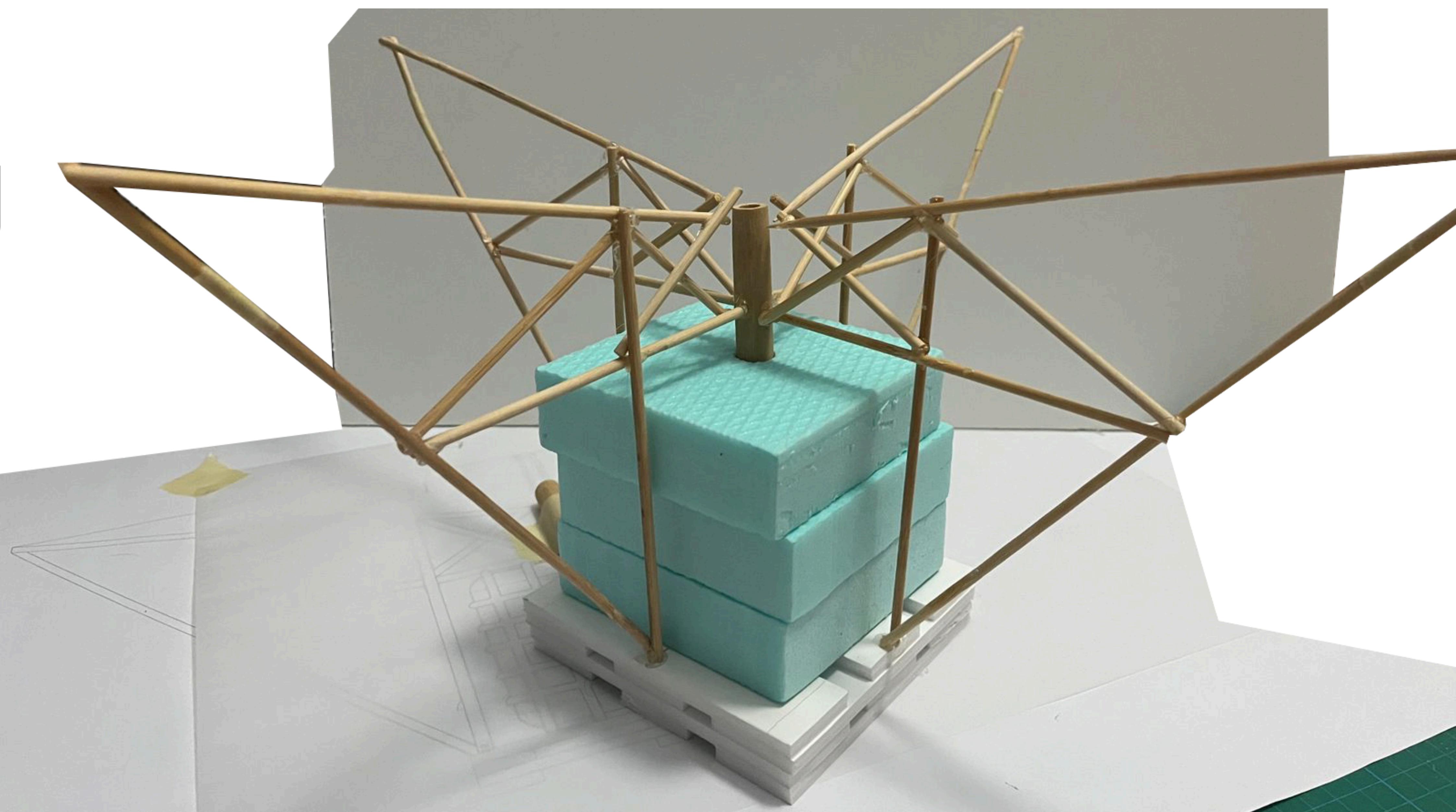
STEP 6



Start by arranging the wooden pieces according to the drawing. You can temporally secure them with some duct tape. Next by using the silicone glue gun, glue its edge of its stick with the other following the frame. Repeat this process for all 4 sides of the stick network.

WATER COLLECTOR

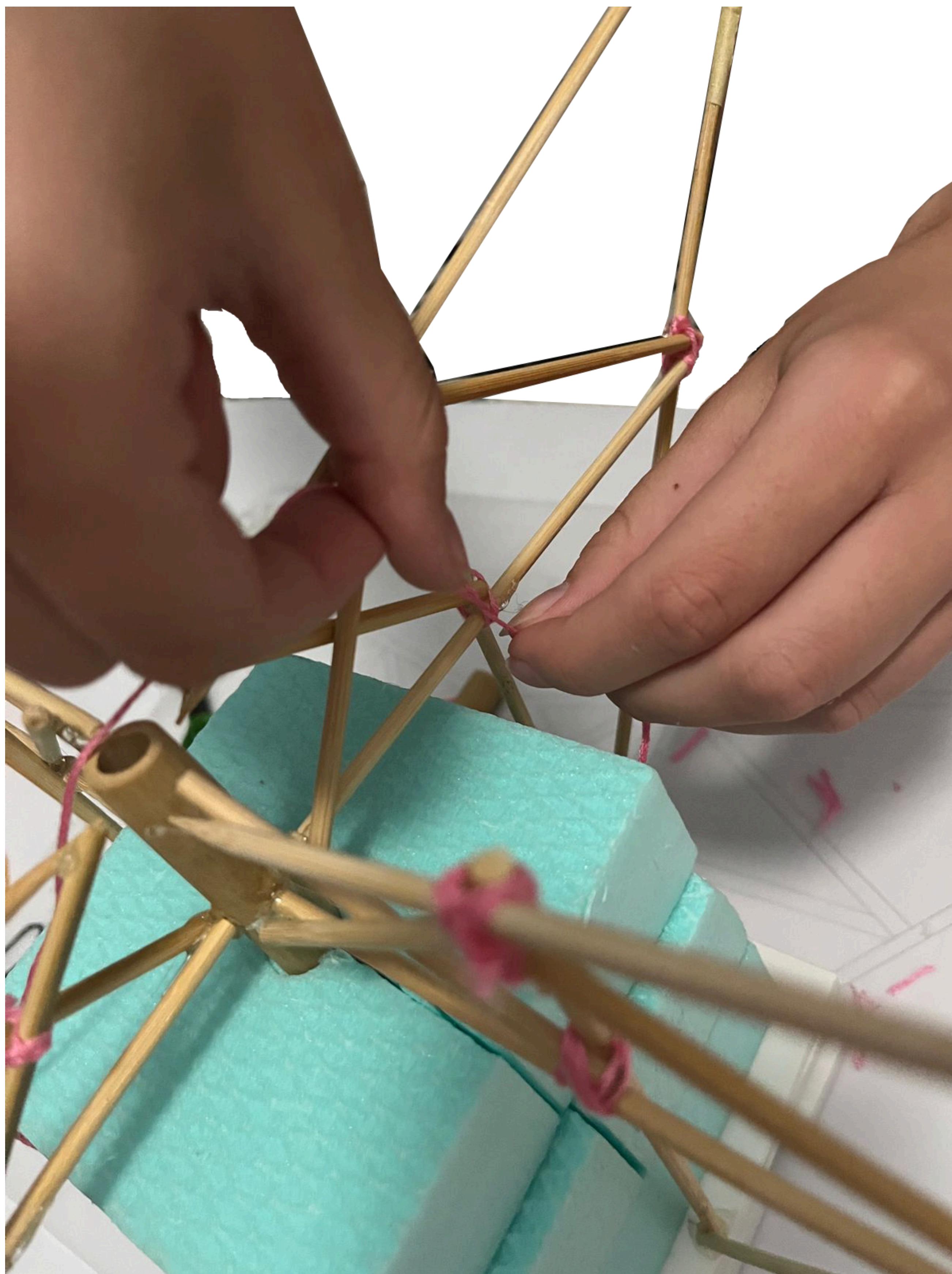
STEP 7



Once the glue in the pieces has dried, you can now glue them into the base and the central pipe. This reassures structural stability to our model for the few next parts.

WATER COLLECTOR

STEP 8



You can also tie down each node if you think that the silicone isn't secure enough.

WATER COLLECTOR

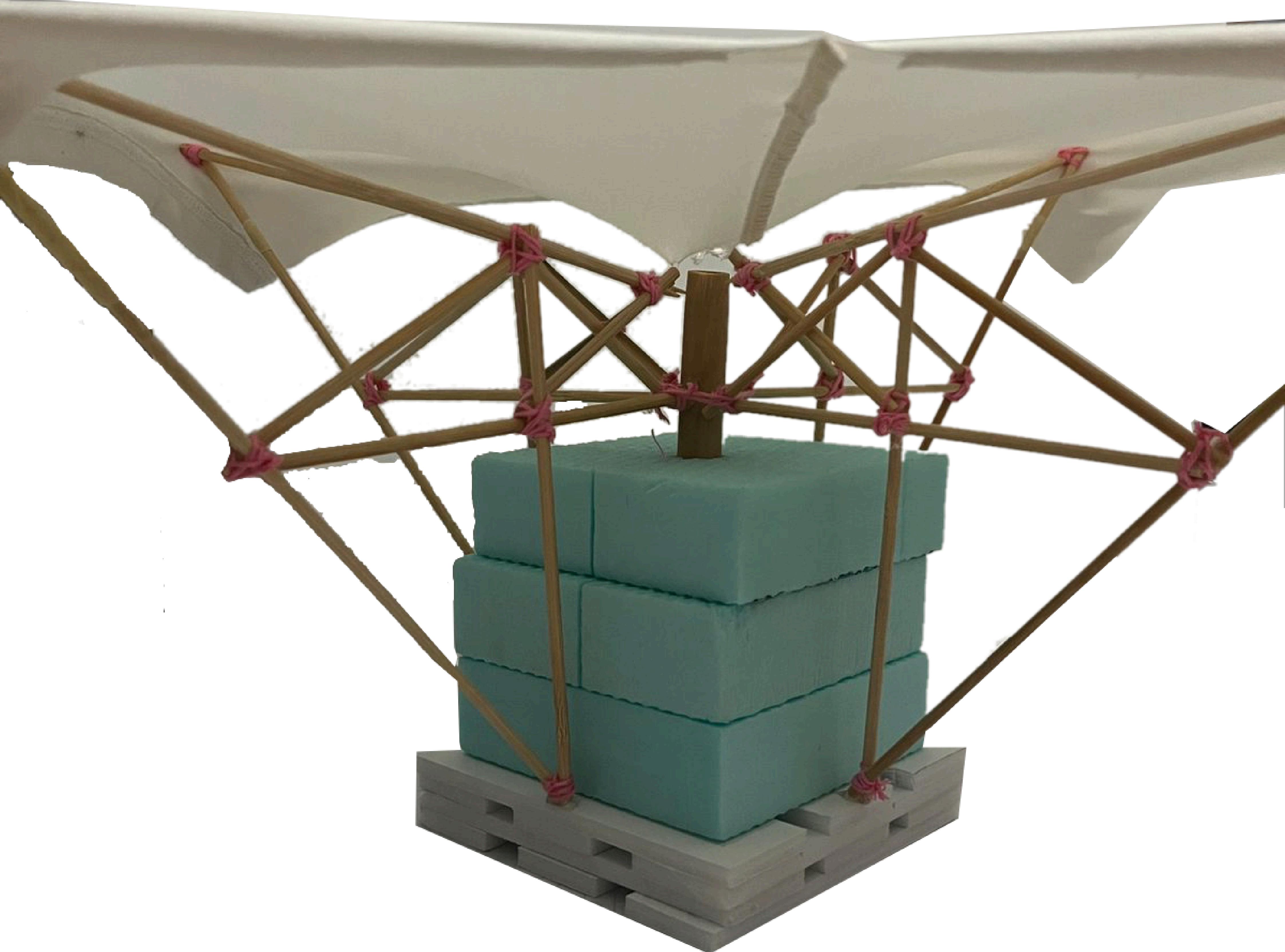
STEP 9



Once the wooden network feels secure, you can add the fabric. Mark the point were the centre of the pipe is. Then cut a small whole threw it.

WATER COLLECTOR

STEP 10



Shew the edges of the fabric on the central pipe and on the highest beams.
Finalize minor errors by adding more glue, tying the sticks tighter or cutting more excess fabric. Your model is ready!!!