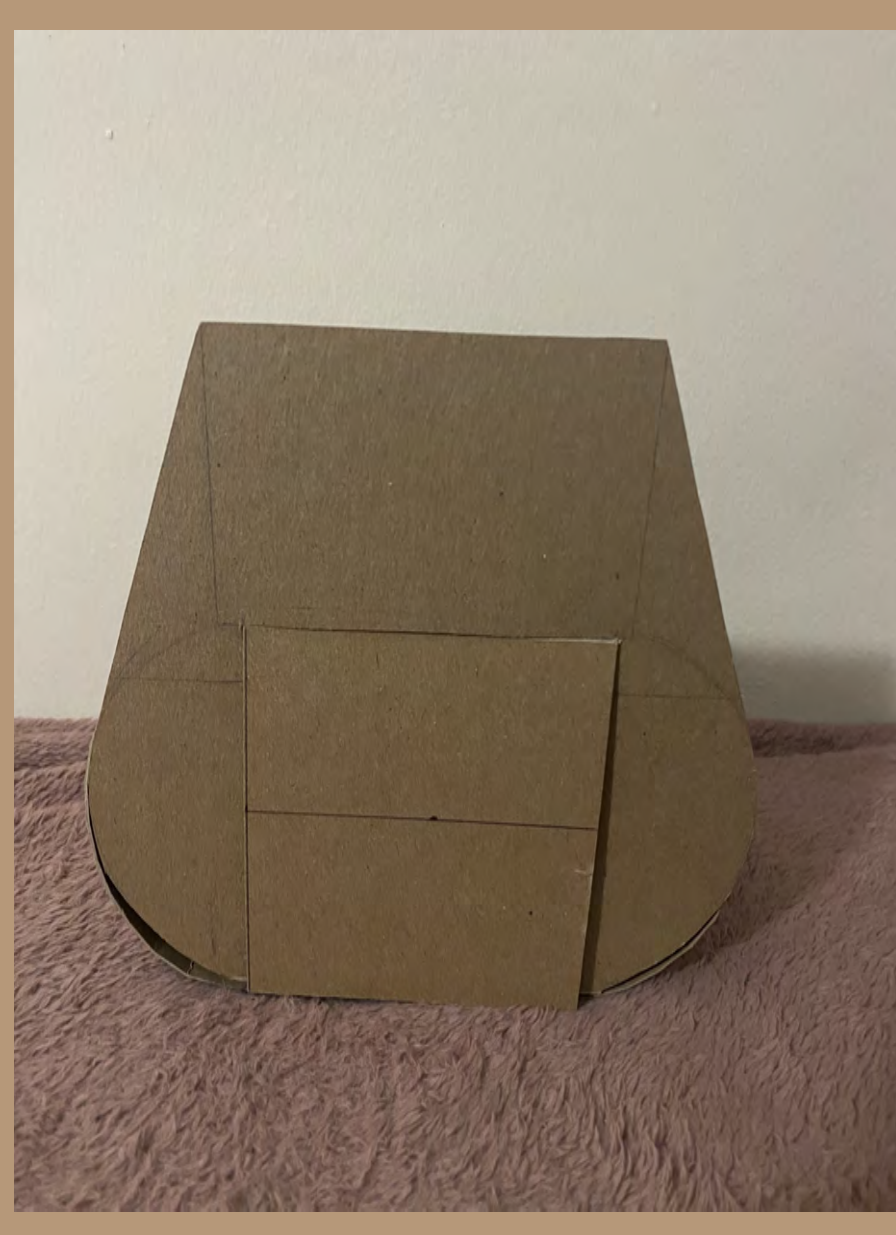


Cardboard Iteration

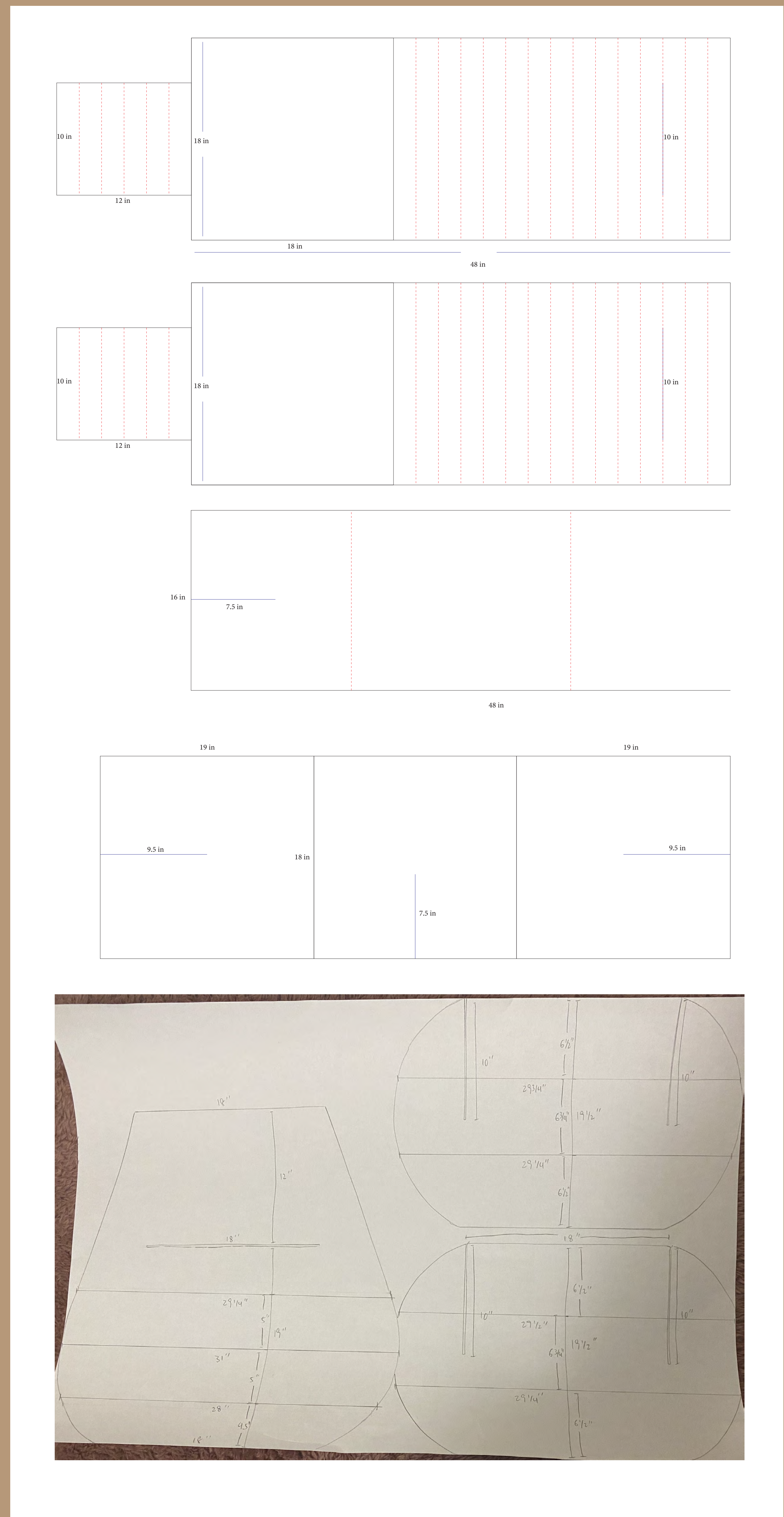
3”
scale
model
person



3” scale chipboard model



3” scale template layout



finished full scale cardboard
structure



research images

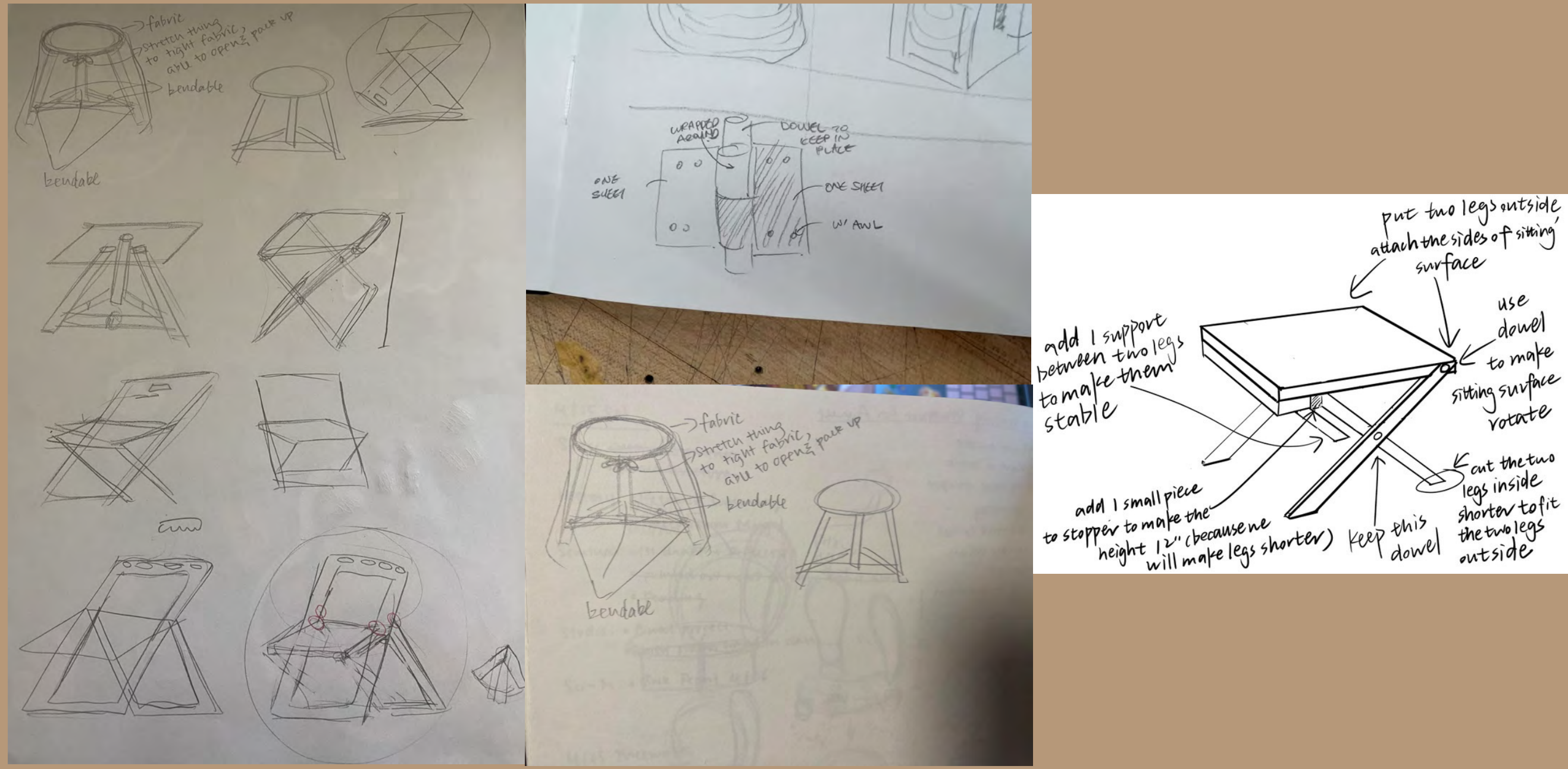


Reflection

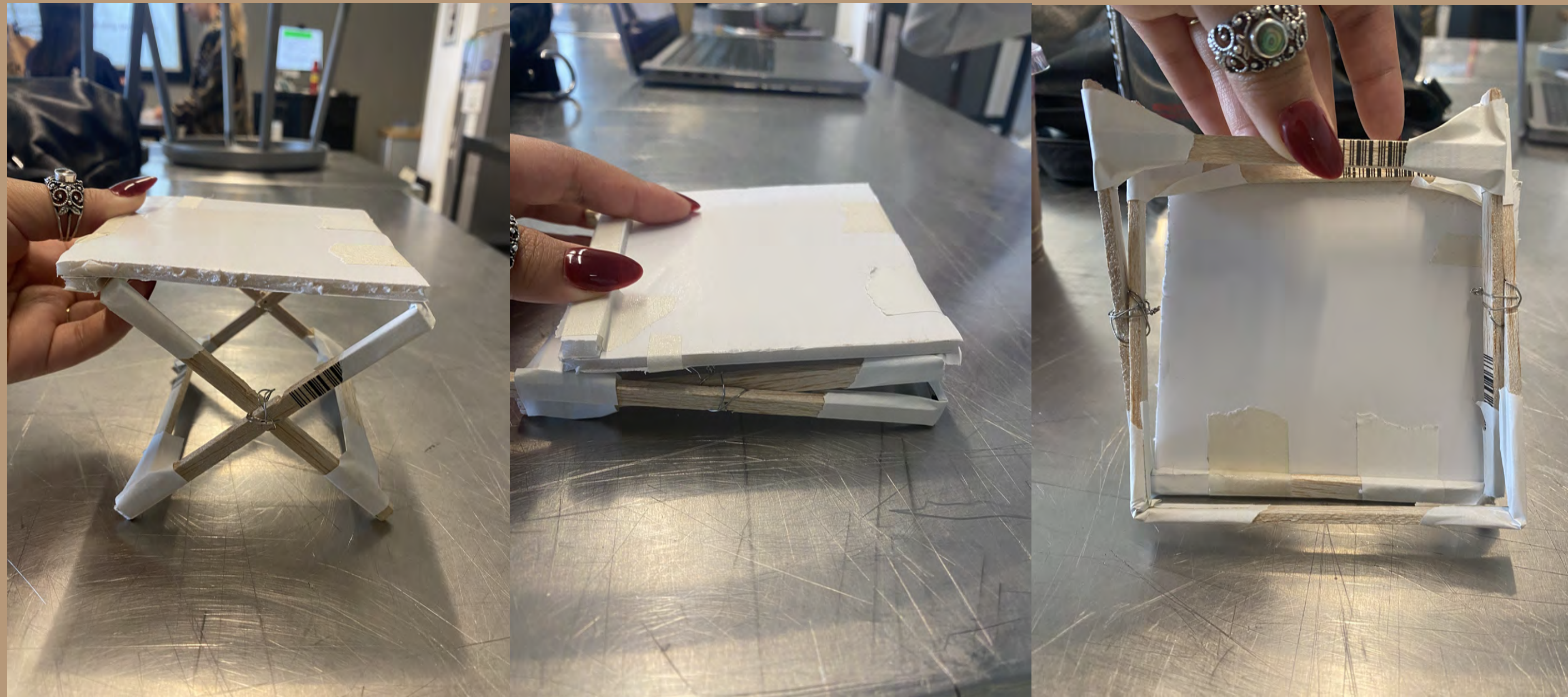
This chair design made for Aimee is made to her scale and fits her height so she can comfortably put her legs on the chair. It also has a back, which is an element present in all 3 of her research images, as shown above. From her research images, she also said that she like interest shapes, so I decided to make the sides of the chair round to make it more unique. This chair is fully supported by the inside structures, which are 3 vertical planes intersecting each other, just like how we made out planar structure in the previous project. The curves on the sides are done through bending the cardboard since it’s very thick, where as I scored the chipboard to bend on the 3” scale model. I made a few models before this model but they all failed because I realized that they were not strong enough to hold weight after talking to Micki. Therefore, for my final carboard structure design, I used up all 7 allowed pieces to add structure under the seat so it’s strong enough to support weight of a person. Overall, I think this project helped me learned a lot about measuring things to proportion, how to make things structural-ly sound, and how to build things to fit another person’s needs. Some cons of this project were that I wasn’t able to work on it in my dorm because it was too big to carry and the seating is a little too big for an average person to sit on, so I will definitely alter that if I were to do this project again.

Final Iteration

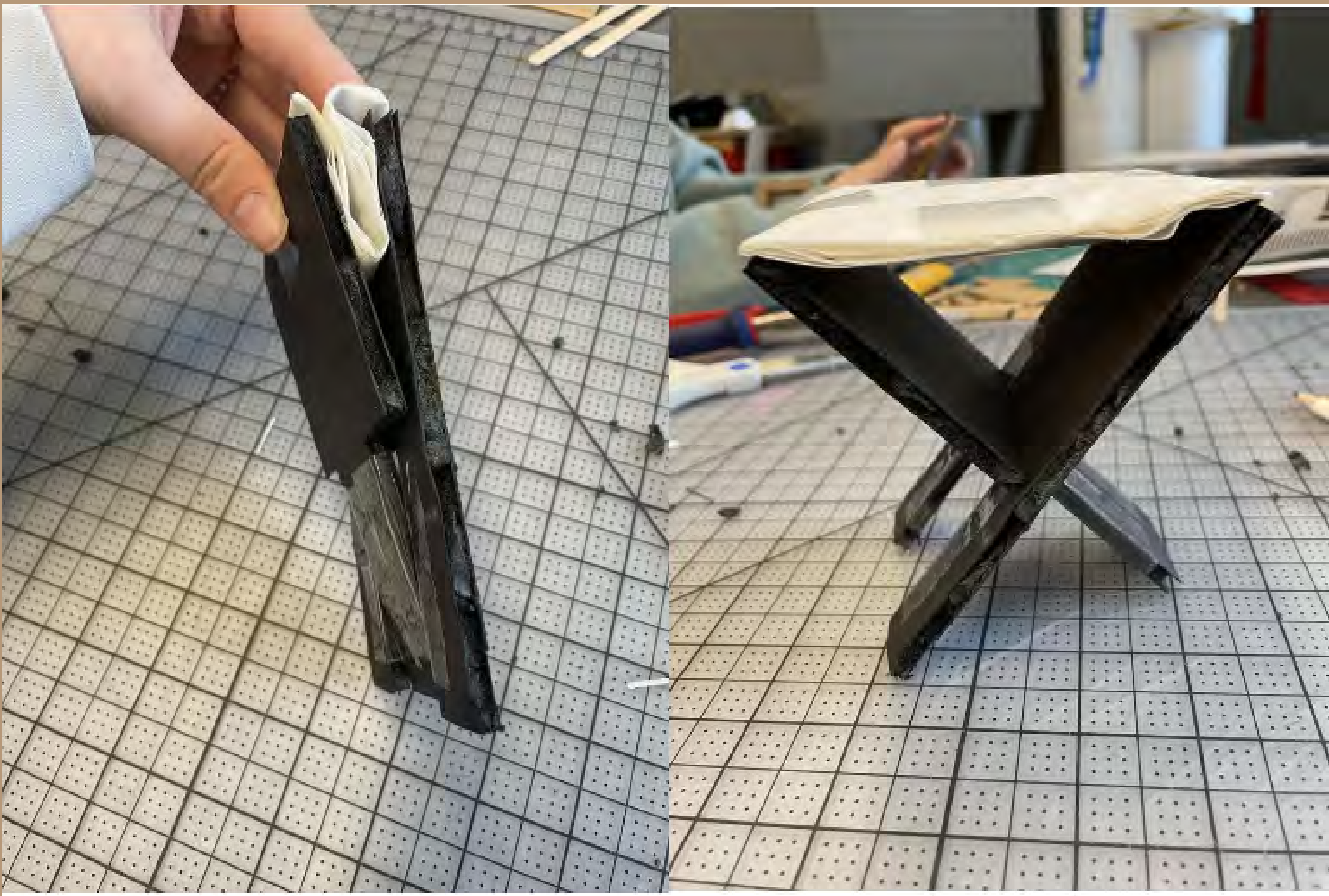
Brainstorm sketches seating photos carrying photos



3" scale model



research



final design



Reflection

Our group chair design is a chair with two legs crossing each other on each side and they are foldable by rotating them

around the connecting dowels. My cardboard model is very different from the final iteration because my cardboard model was not carryable and I couldn't think of a way to make it carryable, so my group decided on this new design all together. We were inspired by the research design another group did in class as shown above, but we changed the fabric to a piece of wood so it's big enough for us to sit and fit the height requirements. The seating structure and the supporting legs are two separate structures and in order to stop the legs from falling, we put two stoppers on each side of the seating surface so the legs stop on the side and support the seating part. One of the stopper is on the bottom and one is on the side because we decided to add the stopper on the side after failing to use fabric as a connector between the two parts. After one groupmate tried using fabric, we realized that the fabric wasn't strong enough and didn't glue to the wood as tight as we wished. Most of our problems during the model making was about how to connect the two parts together and we failed after trying to use fabric and dowels, so we decided to leave them separate and add a stopper on the other side. I think we had to do multiple tries to figure this out because none of us were familiar with wood and we were just not sure if things would work out. If I would do this again, I would definitely think and test the design more thoroughly before actually making it with wood. Overall, this project was very satisfying at the end when I saw my finished chair and I got a lot closer with my groupmates through doing this project together. However, I do wished that we had try other materials other than wood and I want to explore the different possible materials if we were given more time.