Weekly Reports: Week 8

This week was essentially spent drilling holes, bolting legs, and planning how the pads would be mounted to the Standing Gardener for the support system. First of all, the holes had to be completed in both of the plates in order to bolt the legs on to the Standing Gardener. This was accomplished early in the week, and the completed task can be seen in Figure 1, below.

Figure 1: Drilled holes in the Standing Gardener plates.

The next step was to bolt the legs on to the plates via the holes that were just drilled. Hopefully there wouldn’t be any problems because of missed calculations or any of the holes being off. Because of the attention to detail of the members of Team 2
and not rushing, no problems arose due to miscalculations or incorrect measurements.

The bolted standing gardener can be seen in Figure 2, below.

![Figure 2: Bolted legs of the Standing Gardener.](image)

After all of the legs were secured to both plates, the telescoping effect had to be tested. Luckily, the Standing Gardener telescoped surprisingly well and with much more ease than previously expected. The telescoping effect can be seen in Figure 3 below, where the Standing Gardener is at its maximum height.
Figure 3: Standing Gardener at its maximum height to demonstrate the telescoping effect.

The next step was to drill the holes in the bottom plate in order to attach the six caster wheels. This was accomplished and the result can be seen in Figure 4, below. The Standing Gardener is now mobile and relatively easy to move.
The members of Team 2 started to plan out how to make the pads for the support system. A consensus was reached that the foam and a piece of wood was wrapped with the waterproof Naugahyde material. Before it is wrapped however, screws or bolts are inserted through the wood (and eventually the Naugahyde material as well). These will provide a means to attach the pads directly to a mounting bracket. The mounting bracket will then be bolted directly to the Standing Gardener. The hip mounting bracket will be an “L” shaped bar that will attach to the top plate. The knee bracket will attach directly to the middle legs of the Standing Gardener with slots so the pads can move from side to side to accommodate the client’s growth. The foot pads will be bolted directly on to the bottom plate.

Future work will include making the pads and mounting brackets and ordering material for the table top, soil drawer, and pot template.
Hours Worked: 12