Work Completed: The two aluminum plates were picked up from Southington. Final report was updated but then our design changed drastically. The new plan is as follows: The scale will now have two rails instead of a plate. The rails will be 10”x36”x.25” with sides of 1.5”x36”x.25”. These sides will need to be welded and/or have brackets to attach them since aluminum can not be bent. The load cells finally came in and were the missing dimension were filled in. They are quite low to the ground: height 7/8”. Both rails have been cut, deburred, measured and marked for the load cell attachment places. The screw size is 8/32” and screws etc can be obtained from the machine shop. A new model was created in Autodesk inventor that reflects the new design.
**Current Status:** Welding of the sides can begin soon but there is a conflict in the welding process as students can no longer weld alone. The following parts need to be bought form home depot: hinges, handles, some sort of latch for attaching the plates and carpeting for future aesthetics.

**Future Work:** Today a trip should be made to home depot and/or the machine shop. The sides need to be cut and welded and brackets need to be attached. The most difficult part of the machining will be figuring out a way to attach the two rails while keeping them separate and have the space in between adjustable. There will be four ramps two on each side aligning with the rails. These also need to be cut and should be around a foot in length in accordance with the height of the load cells.
**Project Review:** Now that the load cells are in work can proceed as planned, however, some thought is still needed for the new design mainly in the method for attaching the plates.

**Hours Worked:** 12