

## Wednesday Challenge Form

Group Members: Andrew, John M.

**Problem Statement:** Design a box that can package and mail a potato chip without the chip breaking. The box design cannot have duct tape around it and it must follow all the rules of USA packaging. This design will then be given to another team to construct manually. There can be two possible winners, the team that constructed the box with the highest score, which will be the score of the chip (100 = perfect) over the total mass multiplied to the total volume times one thousand, and the team that designed the box.

**Approach:** After receiving the instructions to create the other person's box, we started to build the sides of the box in the course of two days. After that was completed, we build the inside of the box and filled it with what the instructions said to complete. Finally, we taped all the sides where the sides intersected so that the box would stay secure while being mailed.

**Solution:** Keilah and Mason won the WC. Keilah won with a score of over 2, and because Mason was the corresponding team, he also won.

**Lessons Learned:** Making a small box with less weight is much more efficient.