

Our Repurposing Project Entry

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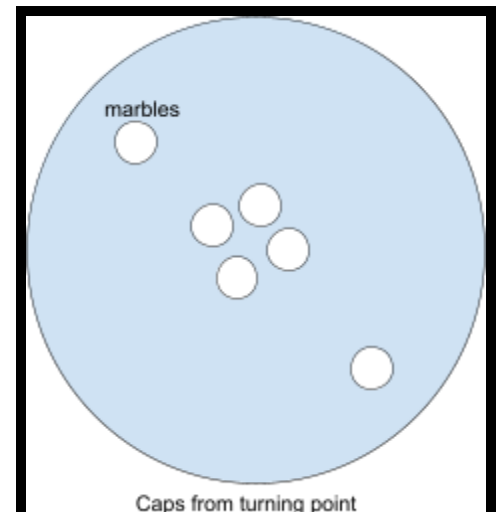
Coming up with the Idea:

When we first started brainstorming ideas for this project, our first design idea was to make a lazy susan. In case you don't know what a lazy Susan is, a lazy Susan is a turntable placed on a regular table. This glass or wood turntable would have plates set upon it. The turntable would slowly rotate upon prompt, and would easily distribute food to all the people on a dinner table. We spent a couple of days building a prototype of the accessory, but later realized it would've housed many malfunctions due to being made out of vex parts. We later brainstormed more ideas, such as a water fountain and a hockey set. We decided to build the hockey set because the water fountain would've been too complicated with the tubing and water pumps.



Design Process:

For our design process, we repurposed previous field and game parts from turning point & ringmaster to draw our first design. The picture to the right represents half of a turning point cap with six marbles that were hot glued to the inner side of the part. We thought that this would let the cap slide easily across any smooth surface but when we tested it, it was very wobbly and it was incapable of doing what we were hoping to achieve. After seeing this design fail, we took off the marbles and moved them evenly across the inner side of the cap. The picture to the right shows our final design of one of the hockey strikers. To make the hockey puck, we put two marbles in the inner portion of a ringmaster ring. We were debating on whether we should hot glue the marbles to the ring, but when we tried it, the ring scraped across the ground and didn't have the same momentum as a regular air hockey puck would have. To fix this, we removed the hot glue from the ring and let the marbles move around freely, letting the puck move smoothly across flat surfaces. This strategy proved to be most useful in where the puck goes.



Conclusion:

We have put much effort into perfecting the design that we have made for our hockey project. Sometimes things didn't go as planned such as parts falling off the strikers, but we found methods to keep them attached for longer periods. If we ever come back to this project in the near future, we will most likely add a more permanent sealant that will hold the marbles to the strikers.

Thank you for reading

