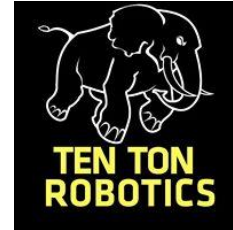


# Recycling Online Challenge 2017-18

Ten Ton Robotics 1010N  
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<https://www.facebook.com/TenTonRobotics/>

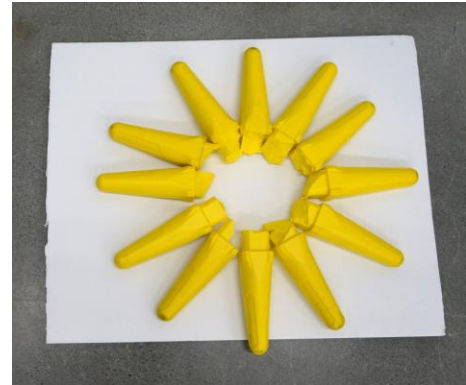
After last year's Starstruck game, we were left with an abundance of various star fragments. We used these leftover game pieces and repurposed them for the 2017-2018 Recycling Challenge. As the Christmas season was approaching, we wanted to spread the festive cheer by decorating our workspace. Our plan was to create a Christmas tree of VEX star pieces, complete with elastic and gear ornaments with a chain garland.



First, we went through our game pieces and found parts we would need: 29 star fragments, 5 half stars, and a whole star.



We started with the base. Using hot glue, we attached 12 of the star fragments onto a large piece of white cardboard. We took the 12 fragments and arranged them on the cardboard to plan the layout of the tree. When we knew the approximate size of the tree, we fixed the fragments to the cardboard and started to plan the “trunk” of the tree.



For the trunk, we took the five half stars and stacked them on each other to create a stable tower. Once the centre column was made, we then used hot glue to attach the fragments as extra branches.

Once the branches were added, we found the entire structure was fairly unstable. We stabilized it using adding hot glue as well as carefully positioning the branches to support each other.



Once the structure was stable, we added the whole star to the top as well as our last fragment to finish the main structure of our tree.

Next, we moved on to decorate our tree. For ornaments, we decided to use old elastics and gears to hang on the branches.

For the garland, at first, we planned to make it out of elastics, however, the beige colour was difficult to see on the yellow stars. Instead, we chose to use a piece of chain to wrap around our tree.



Once the decoration was complete, we put the tree in our classroom for all of us to enjoy during the holiday season.



Click [here](#) to watch the video