



TRISONICS WEEK 1



STEAMWORKS Kickoff at Allendale High School

FRC Team 4003 is excited to start off the new year right with a brand new FIRST Robotics game,



FIRST STEAMWORKS. We welcomed new students and caught up with returning peers on the team last year. FIRST STEAMWORKS, takes place in an era in which steam power was the main source of energy. Alliances compete against one another to power their airships using steam in the ultimate long distance race. Steam for an alliances airship is generated by shooting whiffle balls into a boiler. The airships fly when teams place plastic gears on their airship. Check out this years animation [HERE!](#)

Pictured above, the whole TriSonics team at Kickoff Last week in Allendale High School. We watched the game animation LIVE at 10:30 am.

“On the build team we have been working on the field elements. We cut out all of the pieces we need to build things and have built a lot. We have also been organizing and taking things down from last build season”



“On the chairmans team we have been working on writing the short essays that are due next month. There are 15 essays and we have 5 more to write. Soon we will begin to work on our main essay and the chairmans video.”

“This week, the design team discussed about ideas for our drive system, wheels, and chassis. For our wheels we had to determine what size wheel would best benefit the robot. There were different factors like size and material. To have a good amount of speed and decent maneuverability, we chose to have rubber six-inch wheels on our robot. Using CAD, the design team started to model the chassis. We discussed what sizes frame we could use on our robot. The design team decided on designing two different sized frames. Having two different frames put together on CAD will allow us to compare the pros and cons of the two different sizes of frame. Another factor for our robot is using chains or belts to spin our wheels, at the moment we are leaning towards using chains because it saves more space for the small limits we have. We debated over which gearbox we were going to use, an EVO or a WCP gearbox. The EVO is more reliable and fit our design better, so we decided to use it.”



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