

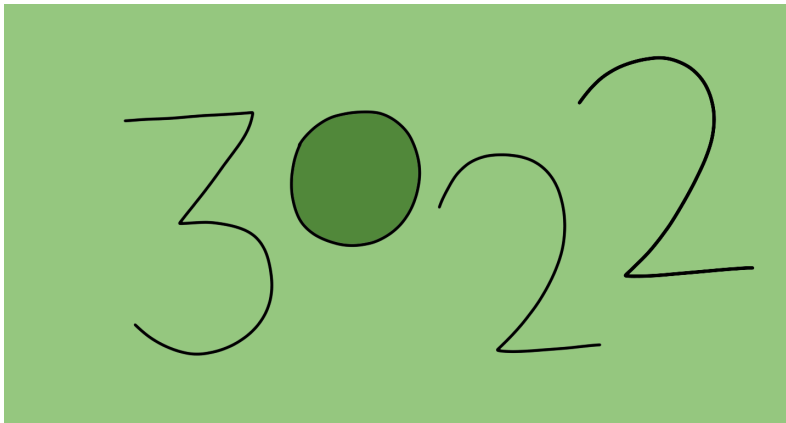


By Pari Rao and Emily Griggs, team 2985B from Palmerston North Girls High School, Palmerston North, New Zealand

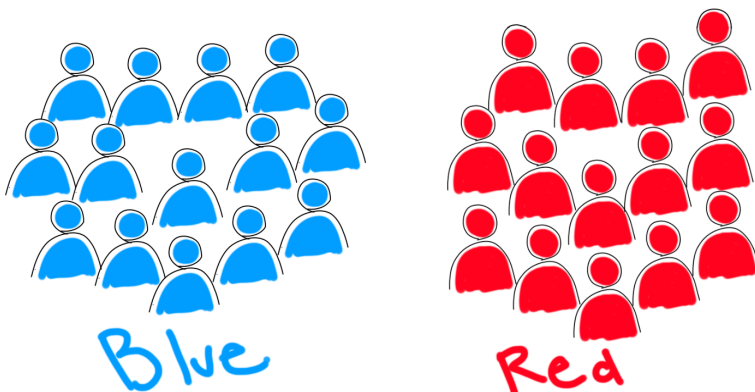
What it's all about:

The year is 3022. Over the last 1000 years, Earth has transformed into a vast wasteland with landfills forming mountains adjacent to oceans of radioactive sludge. To survive, humans left Earth in waves, traveling to different corners of the galaxy to find a new home. The majority of these ships went to Saturn's moon, Titan, which is similar to Earth and can sustain human life to the highest degree in our solar system. Earth has been divided into two orders, the Blue and the Red. As the last ship, OmniWheel, prepares to leave Earth with the world leaders, they must determine which order's robots will remain on Earth and aid in cleaning in order to sustain Earth's habitability for the animals that remain. General Palmy finally presents the prospect of a competition between the two order's robots, and both order's agree it is the best course of action.

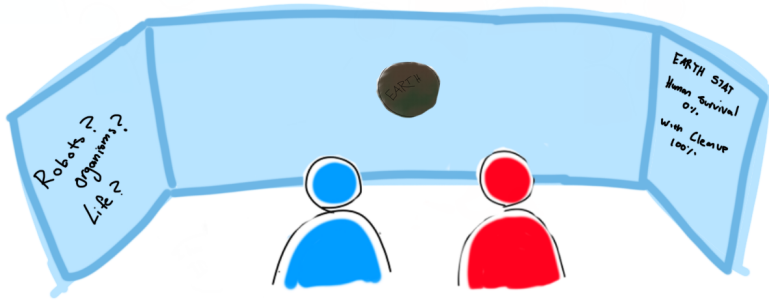
Storyboard:



The year is 3022, and most humans have left Earth as it has become unsuitable for human life



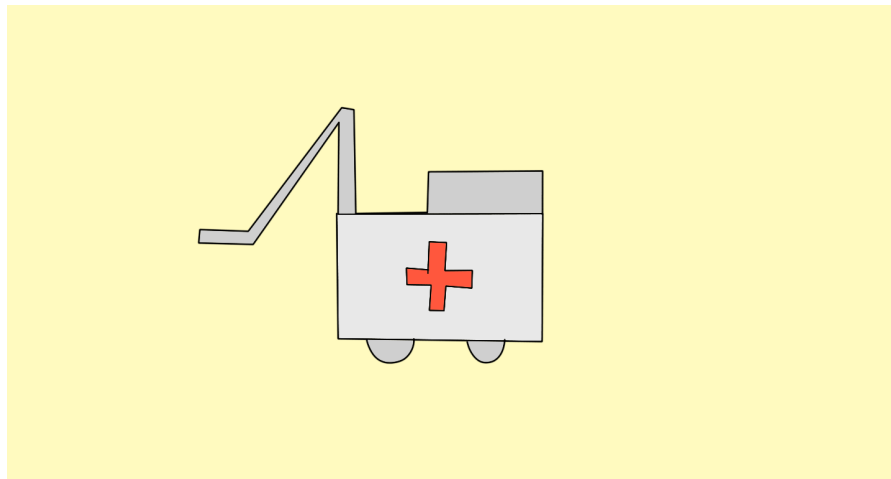
Two order's have emerged, Red and Blue



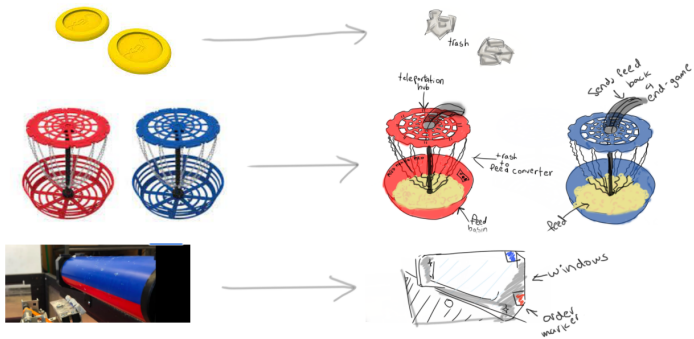
As the last ship, OmniWheel, leaves with the leaders of Red and Blue, they must decide which order's robots will stay behind to keep Earth livable for the organisms that remain



Finally, General Palmy presents the idea of a competition between the two orders, and you, my friend will be taking part!



Your job is to represent your order with a robot which will carry out jobs necessary for animals to survive on Earth

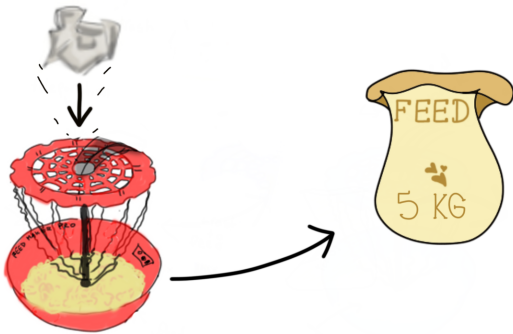


You must collect trash,
Put it into the re-life-anators,
Clean windows,

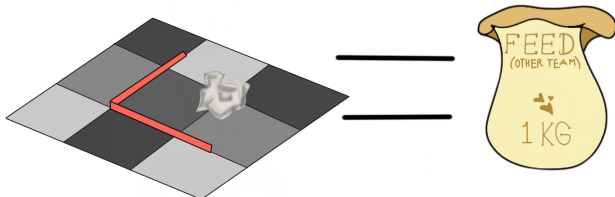
And distribute feed to the animals remaining on Earth.



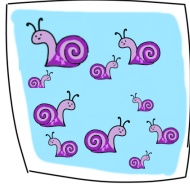
Each piece of trash produces 5 kg of animal feed,



But be careful, because any trash which falls into the other order's feed will add an extra 1 kg of feed for them



Each window you clean will save 10 snails,



00:10

+3 animals fed!	+3 animals fed!	+3 animals fed!	+3 animals fed!
+3 animals fed!	+3 animals fed!	+3 animals fed!	+3 animals fed!
+3 animals fed!	+3 animals fed!	+3 animals fed!	+3 animals fed!
+3 animals fed!	+3 animals fed!	+3 animals fed!	+3 animals fed!

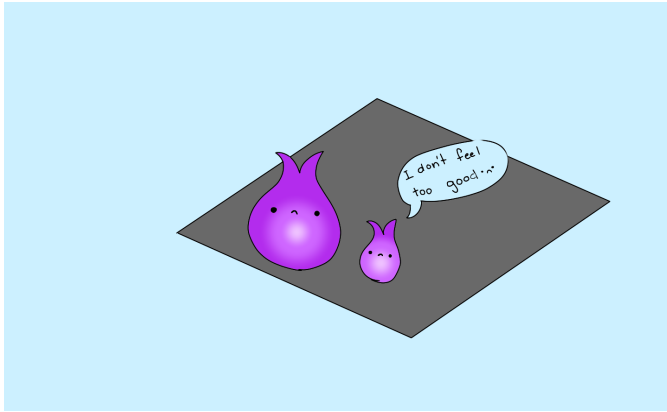
And in the last 10 seconds you will have to feed the animals, and each unit² you cover will feed 3 of them



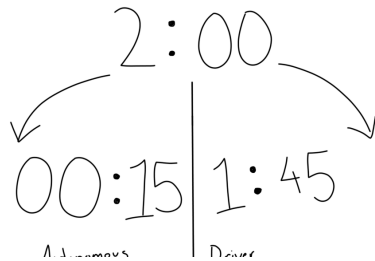
Be careful not to intentionally harm the other order's robots though,



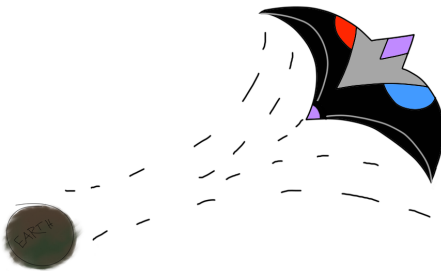
As hurting them just means less animal feed, and we wouldn't want that of course



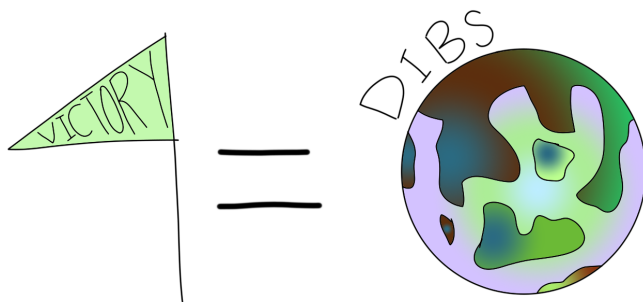
We also wouldn't want the animals to be overfed, so make sure not to get your feed entangled with the other order's feed



You will have 2 minutes during each trial to show off your skills,



But 15 seconds of this time must be without driver control to show how your robot will survive once OmniWheel is out of control range



The order which succeeds in creating the best robot and earning the most points will be allowed to claim Saturn's moon Titan, which has now been created into a thriving human colony,



while the losers must find a home elsewhere in the galaxy by themselves



So represent your order in Vex Robotics Clean Up!, and help determine which robot is best to leave Earth easy-breezy for the organisms that remain!

Details on In-Theme game elements:

Robots: robots created by the two orders of Earth, Red and Blue, to ensure Earth's remaining inhabitants will survive once humans vacate Earth.

Rollers: **windows** which the robots must clean.

Upper-goal: **re-life-anators** which turn trash into animal food. Each piece of trash input will create 5 kg's worth of animal feed.

Discs: **trash** which the robots 'Clean Up' to represent their order.

Lower-goal: the other order's **food collection base**. Trash can be mixed into the animal feed and will dissolve to make 1kg extra of the feed.

Autonomous period: the first 15 seconds of each trial, which are driver-control-free. This is used to test the independent ability of the robots to assess which ones can manage once the last rockets are out of satellite reach. The Blue order happens to use Sapphire++ and SkyBlue computers, while Red happens to use Crimson08 and RedOnion computers.

Expansion in end-game: animals being fed. Each unit² (foam square) covered feeds an additional 3 animals.

Field: **Earth**.

Home-zone: where each order must present their autonomous-code, we wouldn't want to mess things up for the other order's presentation, would we?

Driver control: each order's designated driver who will drive the trash-bots until their rockets move outside of satellite range.

Victory: the order which succeeds in building the best robot will be given the rights to claim and inhabit Titan's (Saturn's moon) thriving human colony - while the losers must find another home far away.

Parallels between real-life field and In-Theme items:

