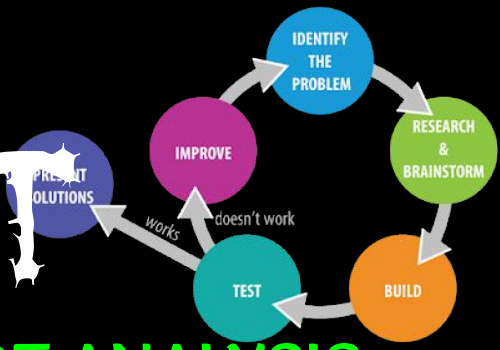
ROBOT ASSESSMENT



OPEN CANVAS, MODULE WEEK 6-7, ROBOT ANALYSIS

Add one new slide for EACH of your three your robots and include a component view screenshot and a write up.

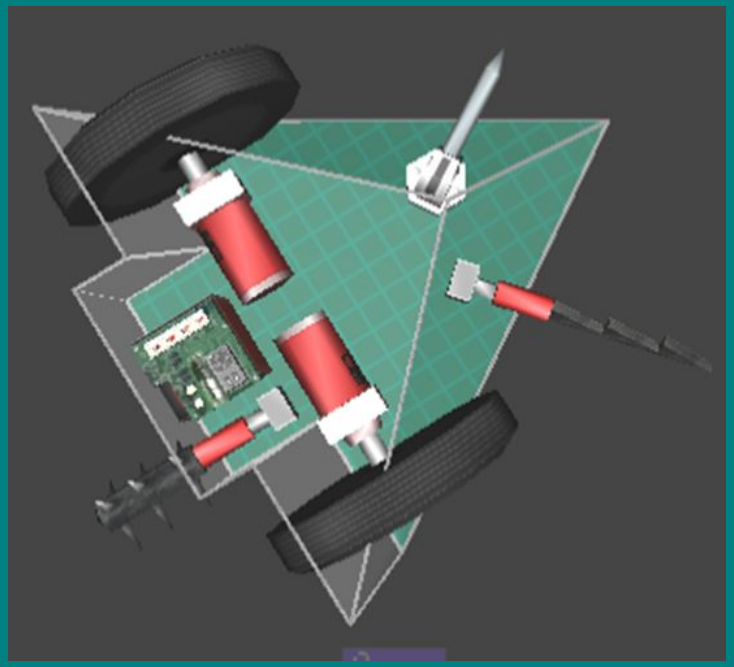
45 Points (30 for each bot 5 for each write up)

Use complete sentences to describe chassis, armor, strategies for components (tires, motors, piston type, CO_2 tanks, batteries, etc.) and explain and analyze weapon choices.

Describe in full sentences the advantages and disadvantages of your bot *(what worked well, what could be improved)*

****NOTE: Use the PrintScreen to capture image, Windows Logo key**

Example slide!



Component View

Name: Crippler Weight Class: Heavyweight 237kg

Here you will add your robot info. See slide one for criteria.

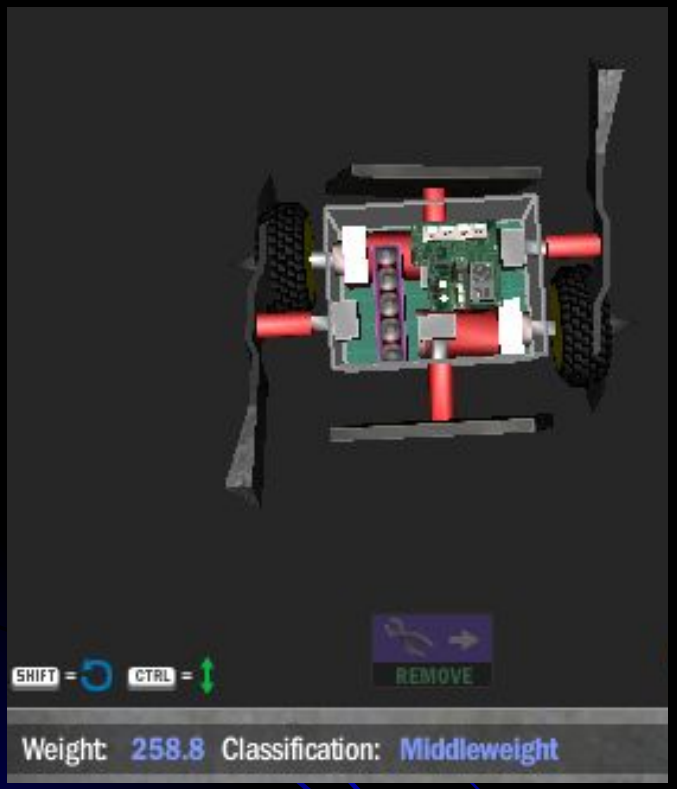
The chassis is shaped like an arrow head. I thought it was a good idea to protect the battery and control board in the back. My armor is plastic, because the Slim Wheels and Nifty 6v battery give me the speed I need, but my trade-off is not a very good defense. The armor does an okay job unless I'm hit with a DDT Burst Motor weapon from above. I chose the Slim Wheels because they're tall enough to continue to move if flipped over. I use the static weapons Pole Spike, Spiked Club and Spiked Strip because they can cause a lot of damage when I spin. The Red Bird motors provide a lot of speed.

Its advantages are that it's fast, can move if flipped, and can cause a decent amount of damage. Its disadvantages are a weak defensive armor and the wheels can get knocked off fairly easy.

Lightweight 224.4kg

I wanted to make my lightweight very small and compact. I made it a square with a point so I could fit the wheels and power in the back with weapons in the front. For my weapons I had a ram plate in the very front to ram into things and I had spikes on the sides to pierce when I ran into things. None of the weapons spin or push out because adding motors would need a bigger battery and more space. I used a battery pack because the only things that needed to be powered were my wheels.

Midweight 258.8KG



I made my midweight very compact just like my lightweight so I used a small battery pack and squeezed the control board and the batteries on the top. The motors for my wheels are on opposite sides from each other to fit more things on the sides.

I used 2 “lawnmower” blades on the sides on an ankle connector which I didn’t realize could move without a motor so my blades move on their own with gravity. I also had a ram plate on both sides also on an ankle motor and they could move without a motor. The fact that the lawn mower blades could move made my robot flip over a lot because the blades would go down and push my robot up, and it was already a bit unstable because it had only 2 wheels. My bot had no things that could puncture so I could only run into things and it was very ineffective.

Heavyweight 420.8kg

I was going to have 3 wheels and some weapons that can puncture but obviously it isn't complete.