

Hello everyone!


*Turn your microphones off, and you
may leave your camera on if you
want.*

*Zoom Names should be written
(Name - Team Number)*

If you have no team, write "Student"

*If you'd like to support,
connect with me on LinkedIn! =>*





Sandpiper Training Session
Getting in the zone!

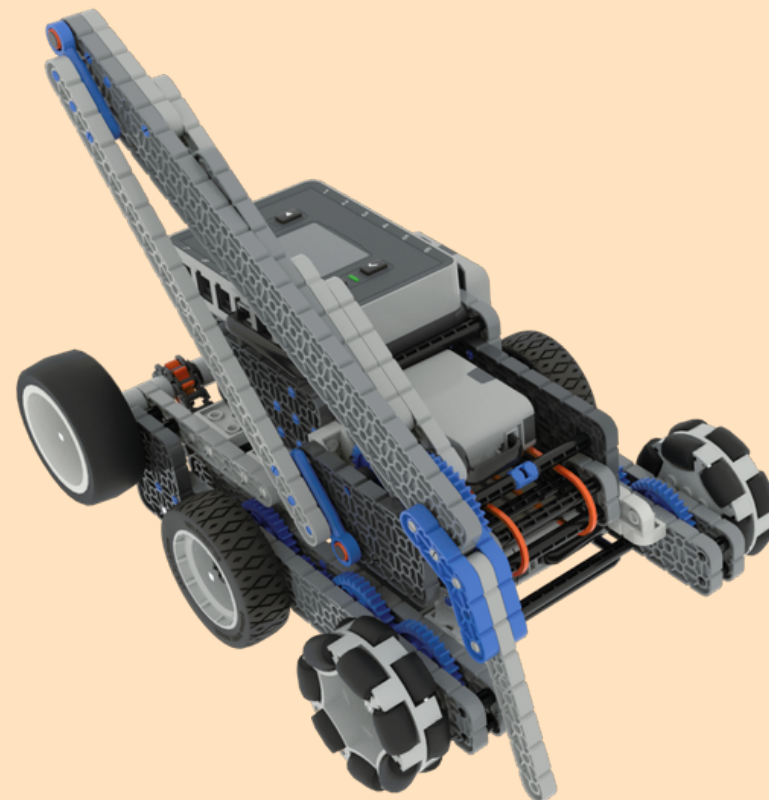
Preparing for tournaments

10/8/22

Presented by Rien Gupta, Kevin Li, and Rick Taylor

What is the progress of your team?

In the last few meetings, we have been talking about building a drive base and programming it to have basic controls. If you have done that so far, that is good, but you should still get a good function-packed robot! Tournaments are soon.



Presentations
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Presentations
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Send us a message of YOUR team's progress

Tournaments are here!

Tournaments are the most important parts of robotics for the rewards that are presented. Each team still has to participate in all forms of the tournament in order to develop. Is your team prepared for doing robotics



**OBJECTS IN MIRROR ARE CLOSER
THAN THEY APPEAR**

Four things to prepare

1

Successful Robot

2

Successful Notebook

3

Successful driver control
program and autonomous
program

4

Driver skills practice

What do I do if I cannot get ideas for a robot?

If robotics has not been as easy as you thought and the robot hasn't been very successful, consider:

- Build the basic hero robot first
- Ask fellow mentors at scrimmages
- Look online for ideas (not instructions)

Scrimmages!

If you don't know any other parents in robotics, consider using the room 8 schedule link and find a mentor with a team (QR code if you cannot find the room 8 spreadsheets, it's on the sandpiper website)





How do I examine content online?

To examine content online, consider looking for the Vex game you are participating. On YouTube, instead of looking up "Vex IQ", look up "Vex IQ Slapshot". Consider looking for newer videos, as teams test new robots almost every couple of months.

The screenshot shows a YouTube search interface with the query "vex iq slapshot". The search bar includes a close button (X), a search icon (magnifying glass), and a microphone icon. Below the search bar, three video results are displayed:

- Video 1:** "VEX IQ Competition: Slapshot | 2022 - 2023 Game" by VEX Robotics. It has 565K views and was posted 5 months ago. The video thumbnail shows a blue robot with a slingshot mechanism. The duration is 2:56.
- Video 2:** "VEX IQ 2022-2023 SLAPSHOT COMPETITION HIGH SCORE ROBOT 245 score)" by stefantasy. It has 30K views and was posted 2 months ago. The video thumbnail shows a robot on a competition field. The duration is 1:03.
- Video 3:** "Vex IQ Slapshot - Closeup Yellow Dispenser Mechanism" by The Null Cybercats. It has 1.3K views and was posted 10 days ago. The video thumbnail shows a close-up of a robot's mechanism. The duration is 0:15.

Struggling with Autonomous?

In the last few meetings, we have talked about programming your controller and autonomous. We have gone over the basics in making both, so redo all the steps straight from the start!



```
when TouchLED2 pressed
  set TouchLED2 color to green
  set BotDistance to LeftMotor position in degrees + RightMotor position in degrees / 2
  set cursor to next row
  print BotD
  print BotDistance
  while BotDistance < 120
    set LeftMotor velocity to 30 %
    set RightMotor velocity to 30 %
    spin LeftMotor forward
    spin RightMotor forward
    if Gyro12 heading in degrees > 339 then
      spin LeftMotor forward
    else
      if Gyro12 heading in degrees > 0 then
        spin RightMotor forward
  broadcast PrintMr
```

Presentations

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Presentations

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No time to Practice?



One common struggle before tournaments is the lack of driving experience. How can we make the best of this situation?

We've ordered the three most crucial parts of driving below. Do each one sequentially if time is scarce.

- Configure your controls so they are convenient.
- Experiment controlling each function of your robot.
- Work in modules- have kids specialize in each function so that proficiency is achieved in at least one element.
- Draw up a strategy for competition- both in skills and teamwork round



Catching up on the Notebook

Catching up on the notebook is a hard story, as the notebook requires a lot of effort.

- Write an entry in the notebook for each meeting
- Write about your PROGRESS, do not write about the journey, as it is a notebook, not a journal
- Show pictures and diagrams, as the judges do not want to read 300 pages of writing

In order to catch up:

- If you remember what you worked on, just write about it with the date you worked on it
- Insert drawings of the content you've made



*Thank
You*

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