WELCOME

PAIR of DICE Robotics

Southeast Career Technical Academy

Team 7426

Topics Covered:

- A typical full season calendar
- Team recruitment
- Student and mentor roles
- Team organization
- Off season goals
- Budgets and finances (Fundraising)
- Awards you're competing for
- **TEAM SPIRIT**
- Build season goals
- Q&A

What does a typical full season calendar look like?

- **Year-Round Activities**
  - Fundraising and Outreach
- **May - August**
  - Update new leadership board and team constitution/rules/goals
- **September - December**
  - Recruit new team members
  - Develop team members skills and knowledge with workshops
  - Select and plan what events you will attend
  - Plan your team pit, apparel, mascots, handouts, pins, etc
  - Decide and work on what awards you are aiming for
- **January - February**
  - Attend Kick-off and make a schedule to meet daily
  - Plan, design, and build your robot (Use all resources available)
- **March - April**
  - Compete, compete, compete

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Year-round Activities
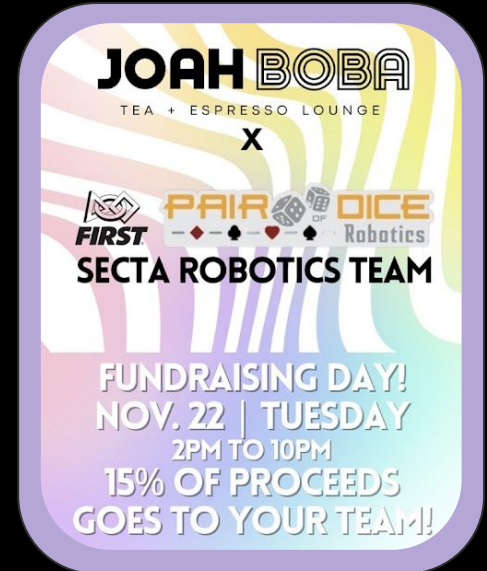
Fundraising

School Fundraisers

- World's Finest Chocolate
- Car Washes
- Partner with a local shop

Crowd funding - Donorschoose

Grants

- FIRST website
- Scour the internet

WORLD'S FINEST® CHOCOLATE
WE FUND COMMUNITIES™

JOAH BOBA
TEA + ESPRESSO LOUNGE

X

FIRST
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SECTA ROBOTICS TEAM

FUNDRAISING DAY!
NOV. 22 | TUESDAY
2PM TO 10PM
15% OF PROCEEDS
GOES TO YOUR TEAM!

Sponsorships

Create a physical <u>sponsorship plan</u>

- Highlight the different aspects of your team
- Including goals

Contact Local Businesses (*phone, email, in person preferably*)

Invite potential sponsors to your workshop so they can:

- Talk to current team members
- View team workshop first-hand

Community Outreach

Any way that you can help your **local community** **OR Spread ideas and Knowledge about** **STEM** **related topics:**

- Volunteering at homeless shelters

- Food/Clothing Drives

- County library presentation

- Science Fairs

- Volunteer at FIRST Events

September - December

Team Recruitment

Diversity is crucial to the ideas of *FIRST*. **EVERYONE** should have a chance of becoming part of a Robotics Team.

Team Members

- Open House, freshman orientation, School announcements
- Robot Demo from a local team near you

Team Mentors

- Recruit interested teachers at your scho
- Utilize resources provided by *FIRST*

(ex. We have 2 that teach robotics, 1 that teaches math)

Team Spirit

Important to create a fun and exciting environment

- **Team Pit** - Make it unique to your team, while keeping an efficient layout
- **Apparel** - Team logo/name, Sponsors,
- **Handouts** - Pins, Bracelets, stickers and anything else you can think of.
  - Make Plenty for other teams and their families
  - People will remember your team more easily if they have an object that relates
- **Mascots** - Great way to cheer your for your team.

Goals for the Season

Develop Knowledge for new members

- Have mentors or more experienced members teach workshops

Set a **Budget**

- Travel expenses, competition registration, team spirit (attire)
- Robot parts, Outreach, Field and game Pieces

Yearly Expenses

Team Apparel
Parts and Equipment
Event Registration
Travel for Events

Rookie Awards

Rookie All-star:

- How well your team embraces *FIRST* ideals
- Community outreach, inspiring and teaching STEM
- Direct trip to World's
- Similar to the FIRST Impact Award

Rookie Inspiration - "Second Place" for Rookie All-star

Highest Rookie Seed Award

- Whichever rookie team ranks the highest in qualification

Other Awards - <u>All Awards</u>

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Submitted awards - Deadlines

FIRST Impact **- Outreach**

Dean's List **- Student**

Woodie Flowers **- Mentor**

Digital Animation

Safety Animation

Competition Based

Gracious Professionalism

Team Spirit

Team Sustainability

Quality Award

Judges Award - interviews in pit during Competition

Off Season Preparation

In addition to teaching students...

Begin **Programming** drivetrains.

- Give students experience
- Less work during build-season

Create a practice **circuit board**

- Prepare students for wiring a circuit
- Familiarize programmers with parts
- Include motors, pneumatics, RoboRio, etc.

First Week MUST DOs

Attend Kickoff

- Learn the game and ask questions on confusing rules

Get to work as soon as possible

Set up a schedule with team

- To meet as much as possible, preferably daily
- After school hours (Consistent schedule or late hours)
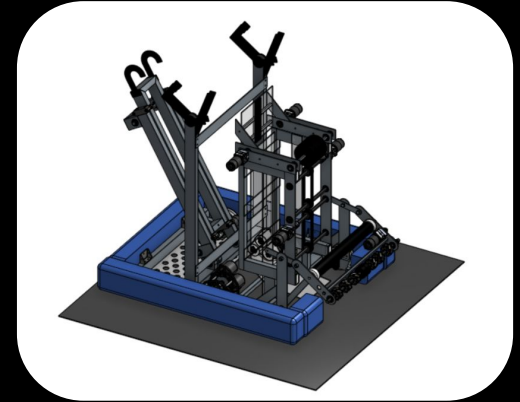- Consider weekends and holidays

Build Process

First meeting = Brainstorming

- What you want and HOW you plan to build it

Prototyping

- Variety of ways to score points
- Design a robot with proper measurement
- Preferably with AutoCAD

Start Building and programming once design is complete

- Any changes made to robot should be changed in design
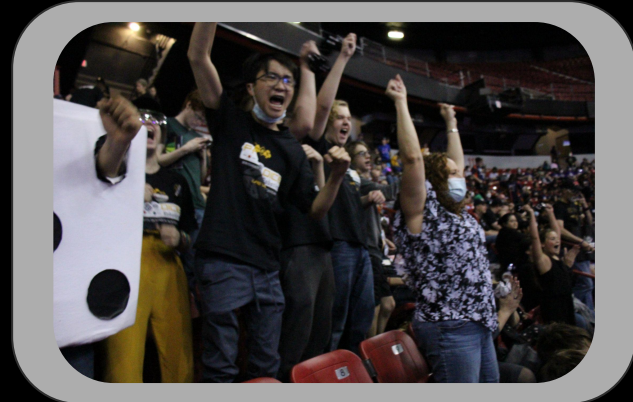- Use all of the help you can get. ASK FOR HELP!

March-April

COMPETE !!!

Be **prepared…..**

Something always goes wrong so have spare materials and a programmer available !!

Have Fun!

You worked hard, so, <u>ENJOY IT!</u>

May-August

(Summer)

Team Improvement

Take a step back and contemplate for each:

- Team Structure
- Robot Construction
- Competition

Reflect. What did your team do good or bad this season?

- Fundraising
- Materials
- Student Involvement
- Resources

What Changes can you make to Improve the team?

Team Structure

Team Improvement

Members should be separated into subteams as evenly as possible. It's important to fill each role for a balanced team.

Robot/Technical Team

- Design, Programming,
- Mechanical, electrical, pneumatics

Business/Communication Team

- Find and talk to sponsors, Community Outreach, Strategy/Scouting
- Graphic Design, Web Design, Social Media

Mentor's Roles

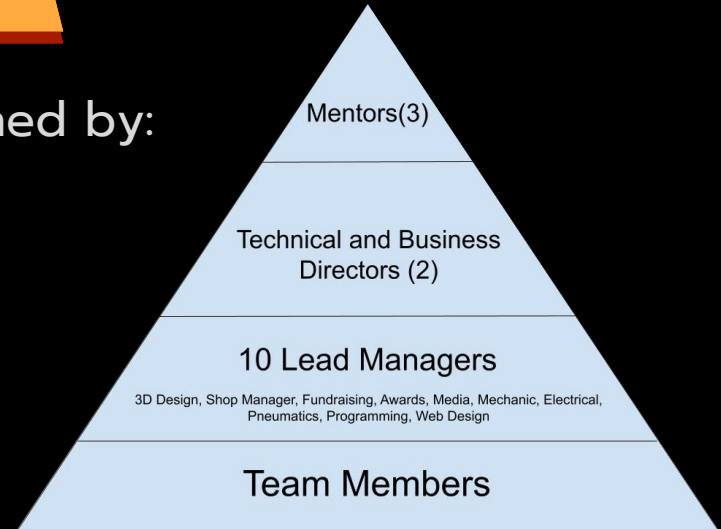Establish a **student leadership team** determined by:

- Ethic
- Knowledge
- Dedication (not popularity).

Supervise all leadership tasks

Assign Tasks

- Keep students on track by creating deadlines
- Google calendar, google keep (lists)

Ensure Stability by having knowledge passed down to underclassmen.

Mentors(3)

Technical and Business Directors (2)

10 Lead Managers

3D Design, Shop Manager, Fundraising, Awards, Media, Mechanic, Electrical, Pneumatics, Programming, Web Design

Team Members

Establishing Guidelines

Document should be made between student leadership and Mentors

The document should explain all rules and expectations

Can also include:

- Travel information
- Meeting schedules
- Team organization
- Dress code

Other members should be made **aware** and have **access** to this information

Communication

It's important for members, leaders, and mentors to **keep in touch**

In order to:

- Inform of meetings, events and announcements
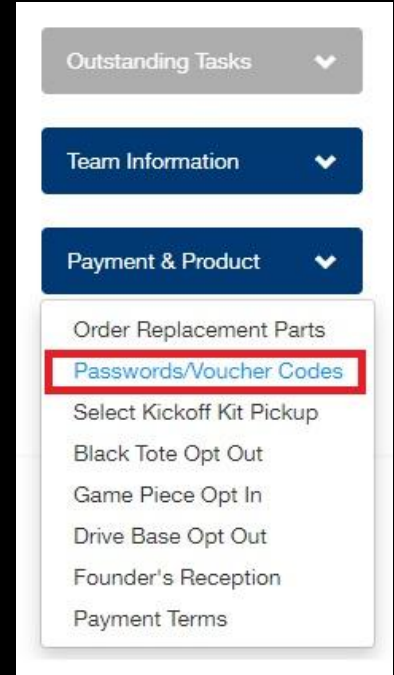- Share information and ideas

Platforms you can use:

- Google chat (not emails), Discord, Google Classroom
- Check in with school admin to make sure it's acceptable

FIRST Choice

In your mentor dashboard account they should have a tab where they can find "Passwords/Voucher Codes".

- You will find vouchers from multiple vendors.
- You will find a **FIRST Choice** code (Andymark).
- Most of these vouchers do not include shipping, but paying shipping is definitely worth the parts you can get.
- Take advantage of this opportunity and if you are not sure what to get, we can help you through it.

Outstanding Tasks ⌄

Team Information ⌄

Payment & Product ⌄

Order Replacement Parts
Passwords/Voucher Codes
Select Kickoff Kit Pickup
Black Tote Opt Out
Game Piece Opt In
Drive Base Opt Out
Founder's Reception
Payment Terms

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Technical Resources

Technical Resources(*FIRST*)

- [Tools/Machinery](#)
- [Design Process](#)
- [Pneumatic Basics](#)
- [Drive Trains](#)
- [Control systems](#)

Do not stop with this Presentation

There are many other resources you can use to your advantage.
Including FIRST links, local teams, and even your sponsors.

Don't wait for the last minute, get a head start!

Thank You.

Does anyone have
any Questions??