WHAT CAN WE AS PARENTS DO ?

JOIN
- **JOIN PTSA**
- Access resources
- Network - FB, Twitter
- Support a new activity to engage kids.

LEAD
- **Chair for Science Olympiad**
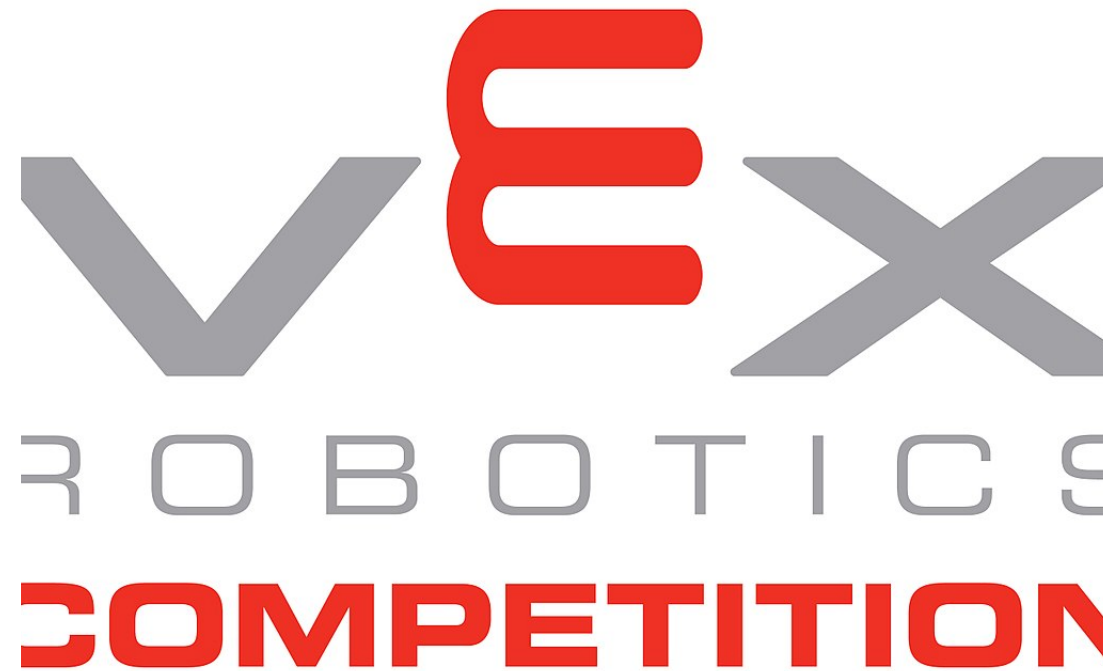- **Chair for Debate Club**
- **VP Advocacy**

Volunteer
- **Time**
- **Share your skills – Webmaster, Social Media , Public speaking**

EMS PTSA Robotics Club
2019-2020 Accomplishments

- Registration Numbers: 75 students; 17 teams
- Tournaments Participated: 11
- Tournament Awards: 13
- State Qualifing Teams: 4 (47B, 47C, 47D and 47R)
- Online Worlds Celebration Participating Teams: 47C and 47D

VEX IQ Challenge

Rise Above – This year's game

Visit PTSA Robotics Club Webpage for information about this year's game, rubrics, etc.

EMS PTSA Robotics

- **This Year's Goal**:
  - ➢ As a team -- design, build & program your robot to attend local tournaments, and potentially qualify for state competition or even world competition
  - ➢ And/or as an individual -- design, build & program your virtual robot
- **Team Requirements**
  - Team size 3-5 students
  - Must have a parent coach (technical advisor and manager)
  - 2+ hours of teamwork per week (per each team's discretion)
- ~~5~~ 8 club teaching meetings on Wednesdays after school (Oct. – Dec.)
- Q & A by emails with coaches

Topics Covered in Club Meetings

- Structural design
- Engineering notebook
- Gearing basics
- Programming (Blockly, RobotC)
- Tournament strategy & problem solving
- Virtual robot design & construction (SnapCAD)
- Virtual robot programming (VEXcode VR)

Presented by HS student coaches with Vex Worlds experiences

Club Meeting Materials:

- Personal Computer (not school-issued computer)
- Zoom
- SnapCAD installed

Registration & Expenses

Per Student: (paid to PTSA Robotics Club)

- $40 Robotics club fee (covers parts expenses) collect at club registration

Per Team: (paid to REC Foundation later)

- $100 one time registration fee with REC Foundation to enter VEX IQ tournaments
- $45 - 50 per local tournament registration fee
- There may be more expenses for state and world competitions if teams qualify and wish to attend (Travel cost for hotel and flight etc.)

Parent Coach Commitments

- Be a PTSA member ([join here](#)) and [LWSD approved volunteer](#)
- Follow the [Student-Centered Policy](#) released by REC Foundation
- Register team with Club using [this link](#)
- Manage all team activities and mentor technically
- Coordinate parents and students and communicate with club chairs
- Organize and supervise outside of school meetings
- Responsible for the team and the team conduct outside school and at tournament events

How to Join Robotics Club

The following process must be followed step by step:

1. 3-5 students form a team (Club chair and parents **do not** form teams and they **do not** force students onto other teams)

2. Find a parent/guardian willing to be your coach

3. Provide a team name

4. The Team Coach uses this link to enter the team's information

5. Each student must complete permission slip (here) and submit it to the coach. Coach collects all slips and submits together to robotics@evergreenptsa.org.

6. Upon receipt of payment and all team members' permission slips, the coach will be given a date and a time to pick up your robotics kit in the order!

All steps must be completed **by the end of September (9/30)**.

Competition Resources

- Competitions are organized by REC Foundation
  - WA VEX IQ events list (on robotevents.com) - nothing yet
  - YouTube channel - e.g. Tuesday Tech Talks playlist

- Hardware and software supplied by VEX Robotics
  - YouTube channel - not a lot yet for this year
  - Discussion forums

- Bottomline: The situation is still evolving.

Competitions in 2020-2021

- Typical season
  - Most regionals: November-January
  - State: End of February
  - Worlds: End of April

- This season expectations
  - Most regionals: January-February
  - State: March?
  - Worlds: End of April

Competitions in 2020-2021

- Emphasis on less travel
  - More invitational-only events

- Socially-distanced events
  - Skills-only events – remote, or in-person with 1 driver ([Guide](#))
  - Remote judging ([Rules](#))

- Rule changes to ease remote teams
  - Digital Engineering Notebook (must print for in-person events)
  - More [online challenges](#) (but not much yet)

Team Meeting Tips

- Rotate kit among team families
- Hold team meetings at an open space with face masks on
- Online Challenges
- Virtual robot design, construction & programming

EMS Eagle Tournament Plans

- two tournaments, one in late November or early December (to race with the flu season), another one in late January or early February.

- (2) drive-through, skills-only, virtual judging, outdoor (if situation allows, we might be able to use indoor of school).

- (3) invitational, school-wide tournaments

Volunteers

- Weekly Club Meeting Volunteers (Oct – Dec)
  - One volunteer per virtual classroom, to witness the class activities.
- Team Coaches
- Tournament Helpers

- Company Matching Volunteer Hours