

Tritt Elementary VEX IQ Robotics Club

General Information 2022-23

We are excited about your interest in the Tritt Elementary VEX IQ Robotics Club. We participate in the VEX IQ Challenge where teams of students are tasked with designing, building, and coding a robot to play with other teams in a game-based engineering challenge. Classroom STEAM concepts are put to the test as students learn transportable skills: communication, collaboration, creativity, and critical thinking. Tournaments are held from October – February, culminating in a World Championship in May.

This club is open to a limited number of 4th and 5th grade students who are willing to work hard to meet this challenge.

What: Each team of four students will be responsible for creating and maintaining a working robot that meets the year's challenge as well as an engineering notebook. Each team is also required to participate in an online research-based challenge. Time during the team meetings will be used to build and program robots and maintain the engineering notebook.

When: Meeting times will be 2:15PM – 3:30PM on Mondays in the Science Lab.

Competitions: Sign-up for competitions will be ongoing throughout the year as students prepare their robots. Each team will compete in at least 3 competitions.

Club Fees: A \$250 fee, payable by check or MyPaymentsPlus, will cover materials, regular season competition fees, coaches lodging and travel for playoffs, instruction during 25+ in-person practices, and a uniform.

Instructions for Robotics Club Application:

Students will complete their portion of the application independently.

Completed applications can be turned in at the Technology Lab or Science Lab.

The application is due by **August 8th**.

Those selected will be notified by August 12th. Practices will begin on the 15th.

Please contact either Mr. Giunta or Mrs. Pascual with any questions.

Tritt Elementary VEX IQ Robotics Club

Parent / Student Agreement

Student Name: _____

To be considered for the Tritt Elementary VEX IQ Robotics Club and to ensure parents and students understand the responsibility and commitment needed by each team member, you must agree to the terms below. Please take the time to read over and sign this contract with your child. Check each item you can agree to and sign below.

Student agreement:

___ I agree that no robotics problem has only one solution and that a successful team is one that cooperates by considering everyone's solution and ideas.

___ I agree that my behavior at meetings and tournaments will be constructive, and I will treat my teammates, opponents, teachers, judges, and volunteers with respect.

___ I agree that each team meeting is valuable and will attend to attempt each meeting. I understand that if I repeatedly miss meetings I may be removed from the team.

___ I agree that the goal of my team should be to do our best to solve a challenging problem and to cooperate on whatever solution the team chooses, even if it is not my first choice.

___ I agree that all work will be my own. Teachers and parents are available to support and to answer questions, but all work is to be done by the students on the team.

___ I understand that violating the agreements above will result in my removal from the robotics club and future events.

Student Signature: _____ Date: _____

Parent Agreement:

___ Parent support is crucial to the success of the Tritt Elementary VEX IQ Robotics Clubs. We will need volunteers for any tournaments hosted here at Tritt and Pope. Students must commit to participating August through March.

___ Students are expected to make mistakes when designing, building and competing with their robots. Please encourage perseverance with your child while reminding them that it is okay to fail. Our expectation is for them to learn and have fun!

Parent Signature: _____ Date: _____

Student Signature: _____ Date: _____

Tritt Elementary VEX IQ Robotics Club

Student Application

Student Name: _____ Teacher: _____

Each team member has an important role in developing a successful robot.

Using the scale below, please **rank** your *interest* in each of the following jobs:

	1 - Not interested	2	3	4	5 – I love doing this!
Building a robot					
Driving a robot					
Computer coding					
Documenting the design process					
Researching solutions					

Using the scale below, please **rank** your *knowledge* in each of the following jobs:

	1 – Little knowledge	2	3	4	5 – Lots of experience
Building a robot					
Driving a robot					
Computer coding					
Documenting the design process					
Researching solutions					

Briefly describe why you want to be on the VEX IQ Robotics Club.

Online Challenges: Each team will be responsible for choosing and completing an “online challenge” from the following lists: digital VEX robotics recruitment poster, reverse engineering presentation of real-world technology, STEAM career interview and design process presentation, or STEAM research (topic tbd) presentation and video.

Which of these speaks to you and why? What would you be able to bring to your team to compete in one of these online challenges?

First Impressions: Review the VEX IQ 2022-23 Game, “Slapshot” on YouTube.

What are some of your first thoughts regarding this competition? What will be the biggest challenge and what strengths will you bring to helping solve it?

First Impressions: Draw your first ideas for a robot build for this challenge. Be sure to include labels and an explanation.



Scenario: Your ideas were not selected for the robot design, online challenge, or notebook documentation. What steps do you take to move on and still be a productive team member?

Scenario: You don't have a specific job for the day or you have finished doing the task you were selected to complete. What do you do?

Scenario: At a competition you have a team member that is pouting and/or not showing support for the team. What do you do to encourage more participation from them?

Scenario: An argument starts while discussing what needs to be done to change the robot design. How would you help your teammates to be more productive?
