

## Tritt Elementary VEX IQ Robotics Club

### General Information 2024-25

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 is an academic club open to only a limited number of 5<sup>th</sup> grade students who have demonstrated collaboration skills and are willing to work creatively to meet the VEX challenge.**

**What:** Four teams of four students will create and maintain a working robot and engineering notebook that meets the year’s challenge. 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 \$400 fee, payable by check or MyPaymentsPlus, will cover materials, regular season competition fees, coaches’ lodging and travel for tournaments, 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 9<sup>th</sup>**.

Those selected will be notified by August 12th. Practices will begin on the 26<sup>th</sup>.

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

Application continues below. Keep page 1 for your information.

## 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					
Project Management					
Documentation					
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					
Project Management					
Documentation					
Researching solutions					

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

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**Online Challenges:** Each team will be responsible for completing the VEXcode VR Skills Challenge. Go to [vr.vex.com](http://vr.vex.com), select playground, and choose VIQC Virtual Skills - Rapid Relay. Create a code to complete some part of the game. Share your code below.

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**First Impressions:** Review the VEX IQ 2024-25 Game, "Rapid Relay" 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?

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



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