

Tritt Elementary VEX IQ Robotics Club

General Information 2021-22

We are excited you are interested 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 September – March, culminating in a World Championship in April.

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 three 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 also has the option of participating in a STEAM Research Project. Time during the team meetings will be used to build and program robots and maintain the engineering notebook. The STEAM Research Project is something that teams can work on outside of team meetings.

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

Competitions: Sign up for competitions will be ongoing throughout the year as students prepare their robots. Most competitions are on Monday afternoons in Cumming once a month, and we will host a competition at Tritt in February.

Club Fees: A nonrefundable check for \$150 made out to Tritt Elementary will cover materials, competition fees, t-shirt and end-of-the-season party.

Instructions for Robotics Club Application:

Students will complete their portion of the application at school in rooms 701 or 705.

The application is due by **August 6th**.

Those selected will be notified by August 13th.

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, they will 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 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 our January scrimmage and February tournament. Students must commit to participating August thru 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 rate 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 rate your *knowledge* 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					

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

Scenario: Your ideas were not selected for the robot design, STEM project research, 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: You are on a team with more than one strong personality (perhaps even your own). Things become heated while discussing what needs to be done to change the robot design. How would you diffuse the situation and guide students to be more productive?
