

Riverwatch Middle School Robotics Membership Information

VEX IQ is a robotics platform designed to transform STEM learning for young students and their teachers. In the VEX Competitions, students are tasked with designing and building a robot to play against other teams from around the world in a game-based engineering challenge. Classroom STEM concepts are put to the test on the playing field as students learn lifelong skills in teamwork, leadership, communications, and more.

VEX IQ Robotics provides:

- ☐ Challenging Competitions
- ☐ Leadership Development
- ☐ Teambuilding and Friendships
- ☐ Problem-Solving Skills

Membership Dues:

Competition team: \$200 includes Robotics short-sleeve t-shirt, hoodie, competition fees, robot kits, spare parts, awards, summer jump start program, and competition meals. **Please make no payments until teams are announced.**

Non-Competition club: \$100 includes Robotics short-sleeve t-shirt, robot kits, spare parts. **Please make no payments until teams are announced.**

Payment Arrangements can be made. Money should not be what keeps any student from participating in the robotics team.

Meeting Dates and Information

- ☐ Meetings and Work Sessions – Competition team will meet T/W/Th during Panther Time. Non-Competition Team will meet M/F during Panther Time.
- ☐ Non-Competition Team – Students will focus on learning to build and/or program robots throughout the year. This may or may not include building a robot to score points for the given competition, Full Volume, but that is not the overall goal. There will be minimal focus on design notebook. This program is meant to be geared toward 6th graders new to robotics, but 7th and 8th graders can be considered.
- ☐ Competition Team – Students will build and program robots with the sole purpose of competing in the annual competition, Full Volume. This will include completing the design notebook and polishing interview skills. Students will participate in 4 to 6 competitions throughout the school year. Please note all team members may not drive the robot at competitions but are still expected to be at the competition. Dates for competitions will be as follows:
 - October – January: Approximately one competition per month
 - February: County-level competition (all participate)
 - March: State-level competition (must qualify)
 - April: Worlds competition (must qualify)

Please submit the completed application to Mrs. Pegues (Room 518) by September 1st.

- Late applications will not be accepted once teams have been designated. Club fees will be due once a student application has been accepted.
- **Do not pay club fees until you have been notified that your child has a guaranteed spot on the team. Fees will be added to SchoolPay during the first week of September.**
- If more students apply than can be accepted, applicants may be placed on a waitlist.

For more information, contact Mrs. Jenn Pegues at f41512@forsythk12.org

Riverwatch Middle School Robotics Application

To apply, please fill out and return the forms to Mrs. Pegues by **May 19th, 2023**.

Parent/Guardian Signature for Permission to join: _____

Full Student Name (print): _____

Name Student Prefers to be Called (if different): _____

23/24 School Year Grade Level: ☐ 6th ☐ 7th ☐ 8th

Applying for: ☐ Competition Team ☐ Non-Competition Team

T-shirt/Hoodie size (check the size): ☐ Youth Medium ☐ Youth Large ☐ Youth X-Large

☐ Adult Small ☐ Adult Medium ☐ Adult Large ☐ Adult X-Large

Parent/Guardian Information:

Name: _____ Cell #: _____

E-mail: _____

Name: _____ Cell #: _____

E-mail: _____

VEXIQ has multiple jobs for team members. A good team member participates in multiple jobs. Teams win awards at competitions for Robot Skills, Excellence, Design Award (judging of the robot and design notebook), and Teamwork Champions. **Which job(s) are you interested in doing? Rank them from 1-4 with 1 being the most interesting and 4 being the least interesting to you.**

Job	Description
_____ Driver	A team of 2 students is responsible for driving the robot during the competition. Teams will try out the week before the competition. The strongest 2 drivers will drive. ** This is not someone's only job. **
_____ Programmer	VEXIQ has a 60 second Automated Skills Challenge. The programmer writes the functions for the robot to do to complete the challenge.
_____ Builder	Builders are responsible for building the robot to complete the challenges.
_____ Design Notebook	This person records all the team meetings and information in the design notebook with accurate drawings, pictures, and notes.

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Please explain how you would solve a conflict with a team member if you both have a good idea, but you think your idea is better and will earn more points.

Are you available for the Jump Start Robotics session June 5th – 8th, 8 AM – 12 PM? _____

What other clubs are you participating in during the 23/24 year? _____

Can you be part of my rostered Panther Time on T/W/Th? _____

Do you want to be on the competition or non-competition team? _____

Part of the VEXIQ process involves researching and brainstorming different ideas for robots. Sometimes you can find ideas on YouTube. Visit the following YouTube video to look at this year's game.

<https://www.youtube.com/watch?v=100tfTCiVmc>

Do some brainstorming, and then draw a robot design below for this year's VEX IQ game, Full Volume. Describe your robot design and how it will score in this year's game. **You may attach a different sheet of paper if you need more space.
