

## MAPS Robotics Team Application

Thank you for your interest in having your child participate in the MAPS Robotics Team! Our robotics club is open to students in 4th - 8th grade. We have spots for 10 students on our team this year. If your child is interested please have them fill out the student application.

**What is a Lego Robotics Team?** Students work on a challenge set by First Lego League. The challenge consists of three different parts (not only robotics). Students build an autonomous robot from LEGOS and program the robot to complete an obstacle course which they then compete against other teams, research, and present their solutions to judges. Team members may also plan meetings, design t-shirts, fundraise, and be a public speaker. For more information about First Lego League please visit <https://www.firstlegoleague.org/> and <https://www.adventistrobotics.net/fll/>

**When and where we meet?** The team will meet on Monday afternoons from 4:00 - 6:00 pm in the Robotics room (above the gym next to the 7th and 8th grade room). Our first meeting will be October 16.

**Competition:** For competition the team will need parent volunteers to drive the team to competition and help organize the team. We are looking at a competition at Pine Forge Academy (about a 4 hour drive on Feb. 18)

**Cost:** There is no cost, but students will raise funds for competition and t-shirts.

**Schedule** - There are approximately 12 club meetings and a competition.

**Coach** - Daniel Rodriguez

**Application** - Students wishing to join the team should fill out the following application and return to school by Friday, October 6.

## Student Application - MAPS Lego Robotics Team

Name \_\_\_\_\_

Grade \_\_\_\_\_

1. What does teamwork mean to you?

2. Give an example of a time in your life where you have used the skill of **PROBLEM-SOLVING** to overcome challenges or to accomplish a goal?

3. Give an example of a project you have completed individually or with a team.

4. There are many roles and responsibilities that need to be filled by the members of the team in order to have a successful season. Read through the list of possible team roles and responsibilities listed below and then write a paragraph summarizing how you think you would be able to excel in ONE or TWO of these roles.

### **Team Roles and Responsibilities:**

- ★ Researching- Gather information about the Challenge theme, related real-world problems, and existing solutions. Invite professionals to share their knowledge with the team.
- ★ Community Sharing- Consider who in the community might be impacted by or interested in your team's problem and arrange to share your findings with them.
- ★ Presenting- Design a creative presentation to show the judges your team's work on the Project.
- ★ Strategy Analysis- Analyze the robot playing field and formulate various methods for accomplishing the missions. Lead the effort to establish a consensus on the final strategic plan and think about the risks and rewards of different strategies.
- ★ Building- Make decisions about building and work to form a consensus on the mechanical design of the robot among team members.
- ★ Programming- Make decisions about programming and form a consensus on programming for the robot.
- ★ Project Management- Get everyone focused, make sure everyone's ideas are heard, find compromises, and keep everyone on schedule with a timeline.
- ★ Marketing- Design and create the team logo, T-shirt, or banner. Write a press release and contact the local media to increase public awareness of the team and how the team benefits from the FLL experience.
- ★ Documentation- Record and document the entire team's thoughts, actions, failures, and successes throughout the FLL season in a journal, scrapbook, storybook, video, or other forms you can display at events. During the season, these records help the team organize information for decision-making. At events and tournaments, these are an excellent way to showcase the team's activities, teamwork, and spirit for judges and event attendees.

Write a paragraph summarizing how you think you would be able to excel in ONE or TWO of these roles.

My parents support me in my decision to apply for the team, and will support me in attending club meetings and competition.

Student  
Signature\_\_\_\_\_

Parent  
Signature\_\_\_\_\_

Parent Name and Phone number\_\_\_\_\_

