

St. Peter S.T.E.M./Robotics (LEGO LEAGUE) Team



NOW RECRUITING for FALL 2017



On your mark, get set, flow! Drink in the 2017 HYDRO DYNAMICS season and learn all about water – how we find, transport, use, or dispose of it. In the 2017 FIRST® LEGO® League Challenge, students from 80 countries will make a splash with HYDRO DYNAMICS. What might become possible when we understand what happens to our water?

Who? If your child is currently in 4th-7th grade and is interested in finding out about how they can join our team, please contact Tony & Tammy Jochman- tjochman@milwpc.com. There are only 10 students per team. **Teams must be formed by May 31st.**

When? Our season typically runs from late August thru February with additional opportunities to participate at events throughout the year. The most time commitment required is during the months of September thru November. We meet 5 hours each week (Sunday afternoons and Wednesday evenings) in Freedom. State Competition is at the end of February.

What is *FIRST* LEGO League (FLL)?

FIRST LEGO League challenges kids to think like scientists and engineers. Guided by their own imaginations and adult coaches, teams discover exciting career possibilities and, through the process, learn to make positive contributions to society. During the HYDRO DYNAMICS season, teams will choose and solve a real-world problem in the Project. They will also build, test, and program an autonomous EV3 robot to solve a set of missions and score points on a thematic playing surface in the Robot Game. Throughout their experience, teams will operate under FIRST LEGO League's signature set of Core Values, celebrating discovery, teamwork, and Gracious Professionalism®. These three elements - the Robot Game, Research Project, and FLL Core Values- make up what we call our yearly challenge.

What skills are needed for *FIRST* LEGO League?

If your child has interests in one or more of the following areas: math, science, art, problem-solving, skit-writing, acting, building, designing, leadership, researching, programming, forensics-speaking, and team-building then FLL may be a great fit. Each year is different depending on the students and their interests but it doesn't matter what skill you have; it's how you use those skills and apply them. Some of the things we do are:

- ✓ Design, build, test and program robots using LEGO EV3 **MINDSTORMS**® technology
- ✓ Apply real-world math and science concepts with hands-on-problem solving
- ✓ Research challenges facing today's scientists; identify a problem and create an innovative solution
- ✓ Take field trips to learn about our topic; talk to experts about our innovative solution
- ✓ Learn critical thinking, brainstorming, team-building and presentation skills
- ✓ Participate in tournaments, scrimmages, demonstrations and celebrations
- ✓ Gain self-confidence and self-esteem and apply FLL Core Values: Gracious Professionalism®, Coopertition®

What *FIRST* Lego League is NOT? *FIRST* LEGO League (FLL) is not about playing with LEGOs. LEGO pieces are used to build attachments and assemble missions for the robot game portion of the challenge. But keep in mind that only about 10% of LEGO league is actually building with LEGOs. If you are looking to **ONLY** play with LEGO's this team is NOT for you.

CO-COACHES & ADULT/PARENT HELPERS ARE ALSO NEEDED! You do not need to have a child on the team to volunteer. Things to help out with include: general supervision of activities, serving as a mentor in your area of expertise, guiding students through brainstorming, leading team building activities, planning field trips or being mock judges. You don't need technical or programming experience to coach or a volunteer.

For more information contact: Tony & Tammy Jochman- tjochman@milwpc.com