

Welcome RoboSaints!!!

You are invited to attend the first meeting of the St. Joseph RoboSaints (All interested students and parents grades 4-8). Please come to hear more about the plan for this year, answer any questions, and sign up if you haven't already (Last day to sign up is Sept 17!). The meeting will be held outside (or in the upper level hallway if raining) in the parking lot entrance of the school at 3:10 on Sept 17 (Thurs). For those students in 5th (Boys) 6th, 7th, 8th grade who have already signed up, We will begin building our mat components.



Parents:

Welcome to the 2020 – 2021 Robotics season! First of all, we would like to reassure you that we will be following all the Minnesota Department of Health and Archdiocese recommendations for the health of our teams and the adults that guide the students.

This includes, but is not limited to:

- Face masks anytime inside the building or if within a 6 ft radius
- Frequent cleaning of equipment
- Time between touch of surfaces that require use of multiple teams
- Monitoring of all coaches/adult volunteers
- VITRUS compliance

We would also like to inform you of a few changes that will be happening with the Robotics competitions for those of you who have previous experience. (This may change/adapt based on new requirements of the state/national organization)

- All Competitions will be virtual. State competition (Usually in early Mar) may be in person.
- The virtual competition will be a 30 minute session (see attached guide) <https://firstinspiresst01.blob.core.windows.net/first-game-changers/fil-challenge/Judging-Session-for-Teams.pdf>
- We are requesting parents to be present for at least 2 practice sessions per team member (No robotics or programming experience needed!) You are there to help keep everyone on task and safe! If you are available for more practices, you are welcome! We will have a signup Genius once the teams are finalized.
- Team size limited to 8 students per team

RoboSaints:

Welcome to the new season! Although some things will change, other things will remain the same! We are an active, real world, problem based solutions and robotics and programming group. We are not just a bunch of kids playing with Legos! We focus on building leaders, project managers, and inspired

thinkers. You can watch the 10 minute launch information at the attached web site:
https://www.youtube.com/watch?time_continue=2&v=lxpXg5J5WdY&feature=emb_logo.

The Robotics team is about more than just the robot build...

Core Values: The *FIRST* Core Values are the cornerstones of the program. Teams are evaluated on HOW they work together, as well as inspiration, teamwork and gracious professionalism.

- DISCOVERY - Team explored new skills and ideas.
- INNOVATION - Team used creativity and persistence to solve problems.
- IMPACT - Team applied what they learned to improve their world.
- INCLUSION - Team demonstrated respect and embraced their differences
- TEAMWORK - Team clearly showed they had worked as a team throughout their journey.
- FUN - Teams clearly had fun and celebrated what they have achieved.

Innovative Project: Teams conduct research to solve a real-world problem, develop an innovative solution, share their findings with community stakeholders, and present their work at the competition. They are evaluated in research, innovative solution and presentation.

This Year's Challenge: All around us, there are opportunities to play and be active — from open parks to cement courts, in our classrooms, and even when we're waiting in line. But more and more people are not active enough. So... **How and where can we help people be more active?**

- Identify a problem to solve.
- Design a solution to the problem for your community.
- Share your ideas, learn from others, and improve your solution.
- Pitch your solution at an event.

Robot Design and Programming: Using a LEGO MINDSTORMS robot kit (St. Joseph uses the EV3 robot), a team designs, builds and programs an autonomous robot to achieve specific missions and earn points. Robots compete in three 2.5 minute rounds in an attempt to earn as many points as possible, and teams are evaluated on mechanical design, programming, and innovation & strategy.

- IDENTIFY - Team had a clearly defined mission strategy and explored building and coding skills they needed.
- DESIGN - Team produced innovative designs and a clear workplan, seeking guidance as needed.
- CREATE - Team developed an effective robot and code solution matching their mission strategy.
- ITERATE - Team repeatedly tested their robot and code to identify areas for improvement and incorporated the findings into their current solution.
- COMMUNICATE - Team's explanation of the robot design process was effective and showed how all team members have been involved.

Additional Resources can be found at: <https://hightechkids.org/fll-overview/team-resources/>

Junior Robotics: For students 3rd & 4th (and girls in 5th) We will be using a different model and robot. Mr. Sutherland and Ms. Triplet have used these robots which help students learn basic programming with rapid results!

Thanks for your interest and participation!

RoboSaints Coaches