

The Robette Roundup

Fall 2020



Our mission is to inspire girls of all ages to incorporate STEM into their lives and to revolutionize the perception of women in STEM.

Upcoming Events

Fall Meetings

In the beginning, we had the privilege of hosting in-person meetings with extra safety precautions, including social distancing, mandatory masks, temperature checks, disinfecting surfaces, and frequent hand sanitizing.

Recently, we pivoted to virtual team meetings - still learning new skills!

This season will be different.

This fact is indubitably true.

However, this team is still here, and maybe, the fact that “this year will be different” is just what we need.

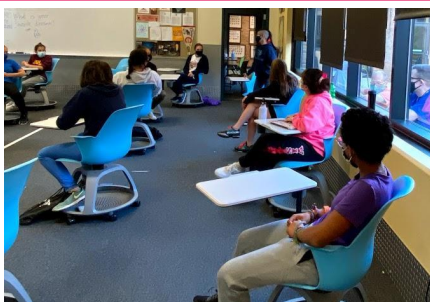
This year will be more exciting. This year will be more demanding. This year will breed more opportunity, more room to support one another, more space to practice flexibility and problem solving, more time to organize, and more diverse challenges to overcome.

With **curiosity**, we approach the unknown seeking to find what we can learn. With **integrity**, we'll work until we are proud of our accomplishments. With **compassion**, we will build a stronger team and better sisterhood. We will **persevere**, and with **confidence**, we will succeed.

Success is not the absence of failure; rather, it is the desire to learn from our mistakes and grow as individuals. And, if there's one thing we know about The Robettes, it's that they will always bounce back ready to band together and face new challenges.

This season will be different, but no matter what, we will succeed.

Thank you for your support!
Maisie M. '21 & Jana C. '23
2177 Team Captains



Team Website: www.therobettes.com

Team Email: 2177@therobettes.com

Team Twitter: [@therobettes](https://twitter.com/therobettes)

FIRST Challenges for 2021

FIRST is not planning on any in-person competitions or events for the 2020-2021 season. However, FIRST is hosting a variety of remote challenges for FRC teams.

In **INFINITE RECHARGESM at Home**, teams, lead by their drivers, can virtually compete by demonstrating their robot's technical skills; scores will be awarded as the teams vie for the Skills Challenge Awards. Additionally, teams can share information about technical qualities with judges to demonstrate their knowledge to win traditional robot-based awards, allowing for participation from any team, even without robot access.

For the **Game Design Challenge**, teams design their own FIRST Robotics Competition game using real-world, virtual, or hybrid design elements, and compete for judged awards. Winning concepts will be considered for use in future official games.

In the **Innovation Challenge presented by Qualcomm**, teams will identify a real-world problem related to this season's theme, **FIRST® GAME CHANGERSSM powered by Star Wars: Force for Change**, design a solution, build a business model, and deliver a pitch to compete with other FIRST Robotics Competition teams for judged awards.



Fall Retreat

Early in October, we were able to host an onsite retreat. This year, our focus was team building and foundations of communication. We had the privilege of hearing from some volunteers of FIRST via a video call. Additionally, Captain Maisie led us in some team activities that focused on self-awareness, presentation skills, and effective communication. While we had to accommodate COVID safety protocols, the team was still able to grow and bond together.



“You are braver than you believe, and stronger than you seem, and smarter than you think.”

--Christopher Robin





Business Subteam

We kicked off the fall season with planning for the annual Vis Give Day fundraiser. We created a short video and sent out a summer newsletter. Additionally, we have been working on grant applications. We received grant money from NASA, 3M & Boston Scientific - Thank you for your support!

Electrical Subteam

We took apart the electrical components on the 2020 practice robot, teaching the rookies about each part. We are working with Mechanical to build a new drive-train-only robot base by constructing an electrical board; this way, we can sharpen our driving skills with a dedicated robot.

Mechanical Subteam

We are working on building an improved robot cart - it's been a long time coming! We are planning and prototyping a new indexer for the 2020 Infinite Recharge robot, Lise, which allows for sorting and control over objects our robot intakes, such as wiffle balls. Lastly, we have been improving our 6-wheel drive train.

Programming Subteam

This fall we are working on making the drive speed more consistent using Proportional Integral Derivative (PID) loops. We also are running tests on our programs from last year, including code controlling the turret, shooting, and intake mechanisms.



**New Mentor Spotlight:
Kevin P.**

Kevin is our new programming mentor. He attended St. Thomas Academy where he became interested in programming. His favorite flavor of ice cream is cookies and cream.



**New Mentor Spotlight:
Kate S.**

Kate is the new business mentor, but she helps out with programming when needed. She is a Visitation & The Robettes alumna! Her favorite flavor of ice cream is cookies and cream.



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