

The Robette Roundup

January 2023
Week 2 of Build Season



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

“Are you Smarter than Your 8th Grade Nun?”
Feb. 11th at 2 & 7 pm

Lake Superior Regional in Duluth, MN
Mar. 2nd-4th

Minnesota 10,000 Lakes Regional presented by Medtronic
Mar. 30th-Apr. 1st
Williams Arena

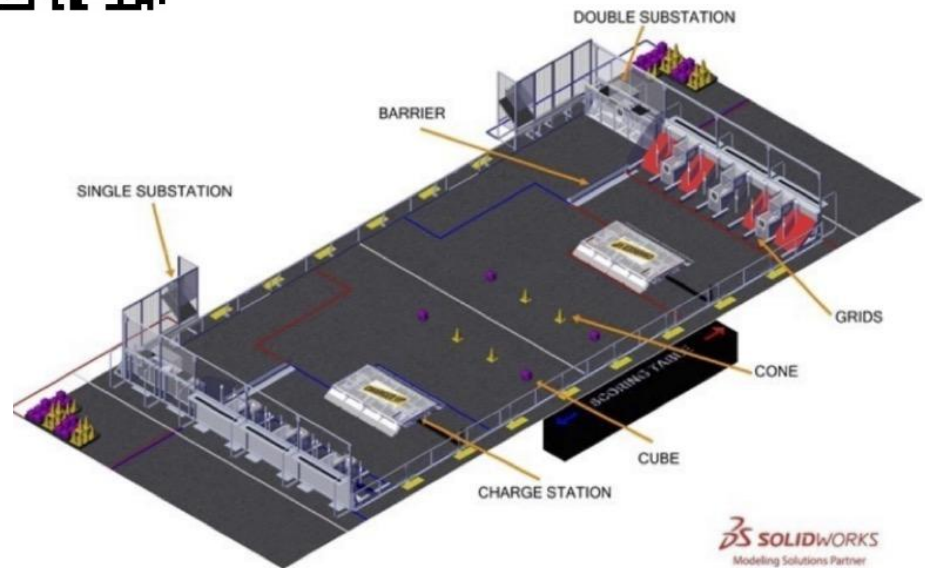
Come see us compete in Duluth or Minneapolis!
Live-streaming will be available via Twitch.tv

CHARGED UP!

The *FIRST* Robotics Competition game is CHARGED UP! The Robettes are so excited to take on the challenge. In the game, robots will pick up either cones or cubes and then place/score them on a node. The lowest level (floor) is worth the fewest points, the middle level is more points, and the highest level is worth the most points. Bonuses are awarded for sets of three game pieces in a row. Robots can also “dock” (balance) themselves (solo or with other robots) on a tilting platform for points.



Scan the QR code to check out the game animation!



A Special Thanks to our Sponsors:



Boston Scientific

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Visitation School



Team Website: www.therobettes.com

Team Email: 2177@therobettes.com

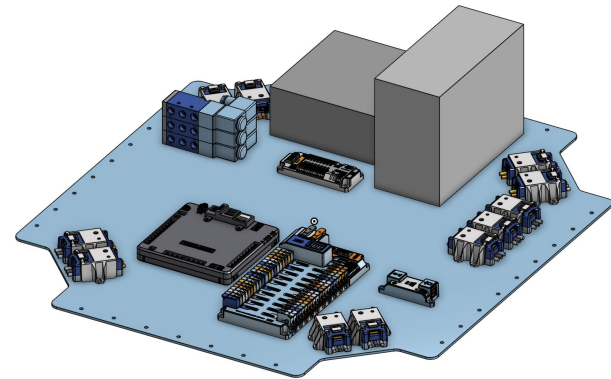
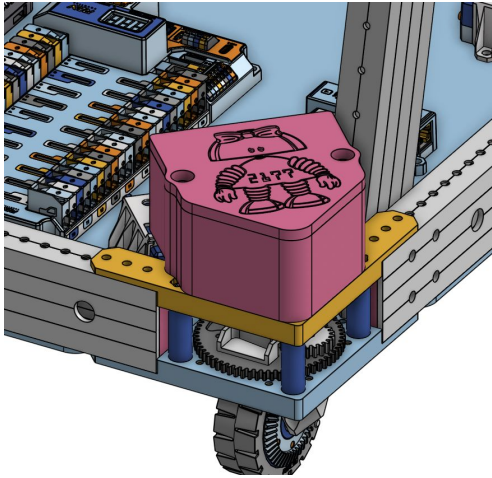
Team Twitter: [@therobettes](https://twitter.com/therobettes)

Mechanical & Electrical Update

We decided to use Swerve drive for our robot this year, which allows each of the wheels to move independently from the other.

Mechanical has been hard at work using CAD (Computer Aided Design) to design and print portions of the robot.

Electrical finished designing the belly pan layout and sent it off to be cut on a larger CNC than we own - thanks **FRC 1816 "The Green Machine"** for the assist!



Programming Update

Programming has been writing the base outline of their code and testing it on the old robots.

Additionally, they made a field-based driving configuration. That means forward on the controls is always forward (away from the driver) no matter the orientation of the robot - think Pac-Man versus a remote controlled car.



Business Update

The Robettes, along with Vis's FTC Micro Bows and FLL LEGO Blaze teams, are hosting **"Are You Smarter Than Your 8th Grade Nun?"** on Saturday, February 11th at 2 & 7 pm.

Join us for a night of fun as you test your skills against a nun! Answer lively trivia questions to win fun prizes such as glow-in-the dark rosaries and so much more!

See flyer on next page for more details.

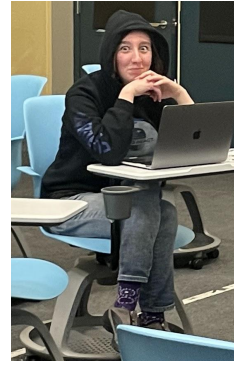
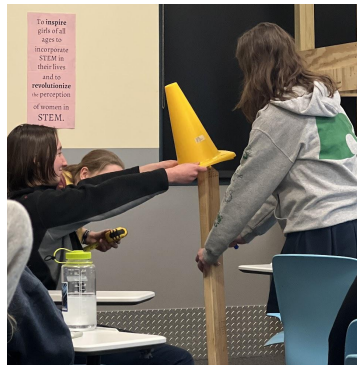


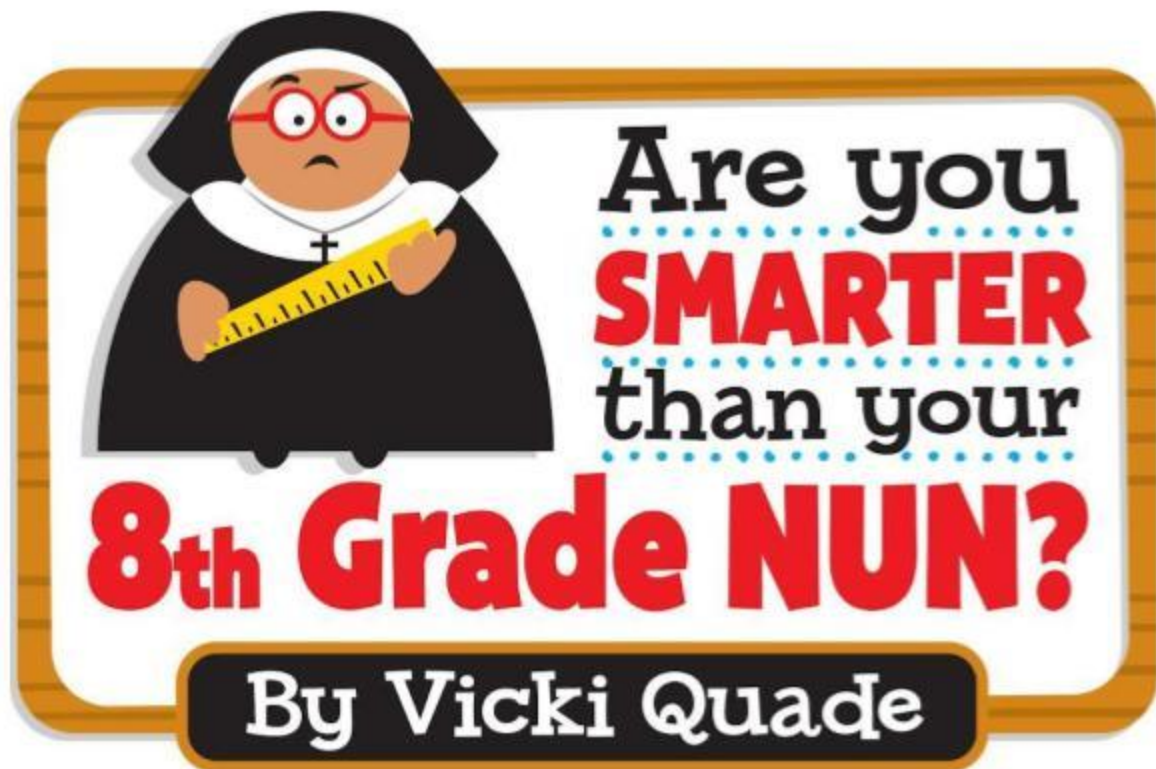
Student Spotlight: Bella S. '26

Bella is a freshman programmer. She joined because she wanted to help give life to the robot in the form of coding!

Bella is also a member of the hockey and math teams and is really looking forward to travelling to Duluth.

Welcome to the team!





An interactive comedy game show, where audience members compete to see who was paying attention and who was daydreaming in school. Contestants are quizzed on subjects like history, geography, arithmetic, science, civics, and a few more! Answer too many questions wrong, and you'll end up in Purgatory, where you have to answer a religious question to get out. Win a free pass to heaven or other prizes along the way!

\$30

Purchase tickets online at therobettes.Ludus.com
limited quantity at the door



Saturday, February 11th
2:00 pm
7:00 pm



Visitation School

2455 Visitation Drive
Mendota Heights, MN 55120



All proceeds go to support **Visitation School robotics teams**.
The Robettes, The Micro Bows, and LEGO Blaze appreciate your support!