

Talon Robotics Talking Points 2023-2024

- FIRST** stands for “For Inspiration and Recognition of Science and Technology.”
- The program was founded with the ultimate goal of inspiring young people to be the science and technology leaders of the future.
- FIRST** accomplishes this goal by challenging students to create robots that compete in fun, game-like challenges.
- Past challenges include games similar to Frisbee golf, soccer, and basketball. With themes ranging from medieval to science-fiction.
- The **FIRST** Robotics in kindergarten and continues through high school. Younger students use LEGO Spark kits, while middle and high school students build robots from scratch.
- I am on Eden Prairie High School’s Talon Robotics Team 2502.
- Five students started our robotics team in 2007. Our rookie season was in 2008.
- Since 2008 we have qualified for the World Championship 8 times and now have more than 50 members every season.

2024 Season

- This year's challenge is called CRESCENDO.
- Like every season's game, this year's is a 2-minute 30-second game, and it's split into two parts: **Autonomous** where you can't control your robot; **Tele-op** where you can use a controller. In both sections, you score by shooting rings into the SPEAKER and AMP. A big part of the game is that you can get a point boost by scoring on the AMP and SPEAKER. During the last 10 seconds of the match, you can hang the robot on a steel chain with your team to earn extra points.
- This year, our robot picks up rings, and shoots them into the Speaker and the Amp, during the end of the match the robot will climb the chain to harmonize.

Business

- In a normal year, we demonstrate our robot annually at the Bots for Tots, Eden Prairie 4th of July Celebrations, Minnesota State Fair, and at many of our sponsors' locations in which we demo our team.
- Each summer we run summer camps through community education for elementary schoolers. Students get to participate in STEM challenges and build their robots using Arduino.
- In addition to corporate sponsors, we typically raise funds to help offset travel costs through team fees and team fundraising events. Corporate sponsorships are the lifeblood of our organization, without the generosity of our sponsors our team wouldn't be able to operate.