



Worthington *FIRST* Pathway

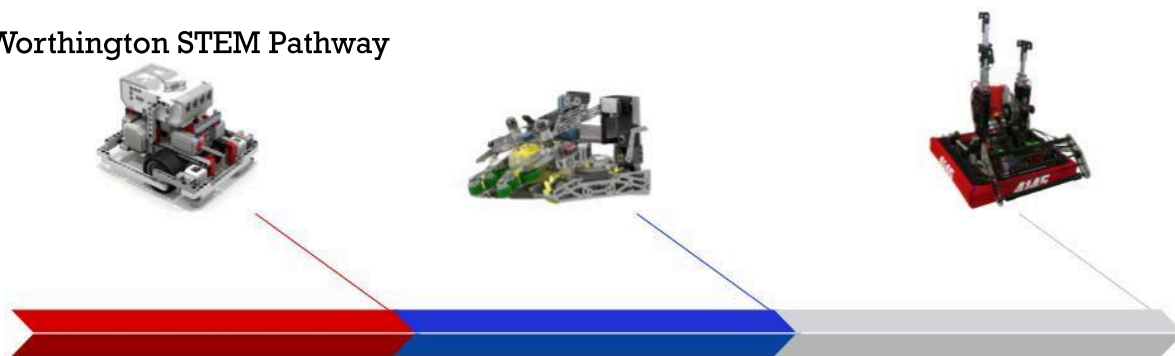
About *FIRST*

- ⚙️ *FIRST*: For the Inspiration and Recognition of Science and Technology
- ⚙️ The *FIRST* program encourages students to develop fundamental skills, encouraging students to become confident, lifelong learners.
- ⚙️ Students in the *FIRST* program learn the importance of Gracious Professionalism™ — meaning they learn respect for one another and their community, regardless of who their competitors during a match are.
- ⚙️ Through the *FIRST* program, students will develop long-lasting relationships. Not only do students receive the opportunity to meet and work with teams from across the world, but students can also acquire internships during or after their high school career.
- ⚙️ There are options for all students. The *FIRST* program promotes inclusion, and it offers opportunities for students to enrich their interest while participating in a *FIRST* team and developing their knowledge. Whether students are interested in designing, building, programming, marketing, bettering their community, or anything else, they have a place within *FIRST*.

Impact of *FIRST* on Worthington

- ⚙️ There is a higher interest in STEM pursuance, with 93% of the high school robotics team looking to pursue STEM — with 53% of current WorBots citing *FIRST* involvement as the reason why.
- ⚙️ More opportunities are available for young students to explore STEM outside of the school day.
- ⚙️ There is a continuously-developing culture of STEM in the Worthington community.

The Worthington STEM Pathway



***FIRST* LEGO League**

The *FIRST*_LEGO League program provides students with foundational STEM knowledge while encouraging them to be leaders and innovators. Students work with LEGO Mindstorms, block code, and student-mentors from the WorBots to complete seasonal challenges.

***FIRST* Tech Challenge**

Students work on teams of fifteen students — alongside student mentors from the WorBots — to build 18x18x18 robots. Additionally, they expand upon the knowledge developed earlier in the *FIRST* pathway — growing as engineers, programs, and leaders.

***FIRST* Robotics Competition**

The *FIRST* Robotics Competition (FRC) program allows students to expand upon prior knowledge and develop new skills. At this level of the *FIRST* program, students grow their knowledge in regards to technical work, confidence, leadership, and community impact.



Starting an FLL Challenge Team

- ⚙ The WorBots provide all of the *FIRST* LEGO League teams in Worthington with two student-mentors.
- ⚙ *FIRST* estimates that the cost incurred by a new FLL team is \$800. From there, teams can expect a cost of approximately \$230 per season.
- ⚙ Teams can have a maximum of eight student team members; however, multiple teams can form at one school to ensure that FLL is accessible to all interested students.
- ⚙ *FIRST* LEGO League Challenge is for students between fourth and eighth grade.

Starting an FTC Team

- ⚙ The WorBots provide all of the *FIRST* Tech League teams in Worthington with two student-mentors.
- ⚙ Teams can have a maximum of fifteen student team members; however, multiple teams can form at one school to ensure that FTC is accessible to all interested students.
- ⚙ There is an estimated cost of \$1,300 incurred by developing *FIRST* Tech Challenge teams; however, costs decrease as teams return for future seasons.
- ⚙ *FIRST* Tech Challenge is for students between seventh and twelfth grade.

Contact Information

- We can be reached at worbots4145@gmail.com, where we are eager to answer any questions you may have about *FIRST*, *FIRST* LEGO League, how you can be involved with Worthington robotics, the growing culture of STEM, or anything else.