McKinley Robotics Programs

	First Lego League (FLL)	**Intramural Bots-Only Lego League (FLL)**	**First Tech Challenge (FTC)**
Grades	6-8	6-8	9-12 with select 8th graders who have demonstrated qualifications
Season (Approx)	Sept - Dec	Jan - April	Year-round, including “Summer Bots” program at Arch Reactor makerspace
Program Components	● Core values ● Applied technology research project and presentation ● Presentation of robot design before judges ● Robot game	● Core values ● Robot design ● Robot game	● Programming ● Building ● Fundraising ● Outreach ● Mentorship
Competitions	● One local qualifier against other area elementary and middle schools ● Opportunity to advance to regional qualifier, and all the way up to World’s ● Run by official FIRST Missouri organization and volunteers	● Scrimmages between two McKinley teams ● All meets within McKinley Tech Lair ● Run by McK faculty coaches and community coaches/mentors	● Local scrimmages between area high school FTC teams, run by school teams and coaches ● Multiple meets sponsored hy local schools ● Qualifier between area schools, run by official FIRST Missouri organization and volunteers ● Opportunity

			for advancement to regional competition all the way up to World's.
Coaches & Mentors	Coach Gaither-Ganim (faculty) Coach Heather Tisdel (parent)	Coach Gaither-Ganim (faculty) Coach Heather Tisdel (parent)	Coach Boeser (faculty) Coach Heather Tisdel (parent) Mentor Di (community professional) Mentor Ethan (community alum)
Additional Info	https://www.firstlegoleague.org/about	https://www.firstinspires.org/robotics/fll/core-values https://www.youtube.com/watch?v=zI_vz9YUw1g	https://www.firstinspires.org/robotics/ftc
Work Time/Place	All work is completed within the scheduled after school meetings, with additional time added as needed to be ready for big qualifier event.	Work is ongoing, with continual improvements to robots within the context of after school meeting times. Multiple contests throughout this season.	Work is ongoing, within after school meetings, focused Crew meetings, and individual initiatives outside of school.
Attendance Requirements	Students must be available to attend all meetings in their entirety. Project and robot completion hinge on full team participation.	Students attend as often as possible, communicating as needed with their teams when absent.	Students stay continually connected with team via Discord app. Individuals within focused Crews often message between meetings to meet goals. Attendance at meetings is important for all members, but absolutely essential for Crew Leads and Team Captain.