Grants and Progression of Programs Overview

Teams from Michigan must align with the Michigan progression below to compete in Michigan events and to be eligible for all grants from FIRST in Michigan/MDE/sponsors. Multiple teams from a single school/org are encouraged and each team within the school/org is eligible for all grants. **Visit the *FIRST* in Michigan Website for more information on how *FIRST* programs operate in Michigan.**

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	GRANTS make first year MORE THAN FREE FIRST ROBOTICS COMPETITION SIGNING BONUS for coaches of new teams	FIRST TECH CHALLENGE FREE KITS for new teams!
LEVEL	**HIGH SCHOOL ONLY**	**MIDDLE SCHOOL ONLY** Includes 6th grade if it's part of middle school in your district
OVERVIEW - Teams are guided by adult coaches, mentors, and *FIRST®* Core Values - Program themes change annually	Teams design, build, program robots starting with a standard "kit of parts" to play a sophisticated field game. Teams learn CAD, coding, mechanical, electrical, and business. Coding languages include C++, Java, Labview and new this year, Python.	Teams design, build, program robots to compete at events. Robots are built from a reusable platform, powered by Android technology, and coded using a variety of levels of Java-based programming.
KIT TYPE	Custom Kit valued at $15,000.	REV Robotics or TETRIX robot kits that are reusable year to year.
SEASON INFO	**Register:** Sept – Dec **Season Starts:** January with kickoff of new game Jan 4, 2025 **Competitions:** March – April	**Register:** May 2024-March 2025 **Season Starts:** September; Kickoff and game reveal is Sept. 7 **Competitions:** November-December, then again in May
TEAM SIZE	No Limit; 18-35 ideal, but teams range in size from 3 to 150	Maximum of 15 students; ideal is 8-10
TIME COMMITMENT	Varies with sophistication of robot- can be as little as 2-3 days per week. Some very established teams choose to meet more, some year-round.	2-4 hour meeting held twice a week for 8-12 weeks
WAYS TO ENGAGE	**After School Competition Team:** Majority of our teams meet after school when their mentors are available to work with the students. **Augment with $65 XRP Mini Coding Robot:** To enhance team robot coding (or just to learn coding), FIRST in MIchigan offers a mini tabletop robot cheap enough for individual use to teach coding. Comes with python curriculum. Use as stand-alone class or as a project within a class or take home.	Competition Team: Premier hands-on STEM experience which can be done as a co-curricular or extracurricular activity. **Team + Class Pack:** Give more students the chance to discover and develop STEM skills then take those skills to the next level as part of a team. Class Pack curriculum is flexible and aligns to MI standards. Suitable for after-school/summer programs as well.
PROGRAM COSTS - Product costs include est. shipping	**Competition Teams** **Rookie** / **Veteran** Yearly Registration Fee: $6,000 / $6,000 Kit of Parts: Included / Included **Total :** **$6,000** / **$6,000** Event Fee: 2 district events included Discretionary Costs: $1,500-$9,000 **Mini XRP Coding Robots** Rookies $65 each No. of Students: 1- 2 per robot Curriculum: Free Can be used in the classroom or just for the team. Supports Java, C++ and Python coding languages.	**Competition Teams** **Rookie** / **Veteran** $ 295 / $ 295 $ 1,258 *reusable / $ 0 **$ 1,553** / **$ 295** $100 per event $350-$1,500 **FTC Class Pack** **Curriculum with mini game** Annual reg (24 students) $ 995 Robot kit* (each): $ 840 Students per kit (rec.) 3 Prof. Development (opt.) $600 *Robot kits are reusable
AVAILABLE GRANTS (teams) Available grants, requirements, and eligibility criteria can be found on the program's *FIRST®* in Michigan website GRANTS page.	**MDE State Grant (Estimated) *** up to $9,000 Rookie Yr up to $6,000 Veteran Teams up to $1,500 Coach Stipend **ADDIT'L Grant for ALL Rookies** FIRST/ FIM Rookie Grants $6,000 Coach signing bonus** $5,000 **NASA Grants (Estimated)** Grant - Rookies /Veterans $6,000 * Public and nonpublic school grants available; amounts may differ. MDE Coach Stipend: One per building for all robotics ** Limited to 1 per new FRC team	**MDE State Grant (Estimated)*** up to $2,200 Rookie Yr up to $1,500 All other Yrs up to $1,500 Coach Stipend *Public and nonpublic school grants available; amounts may differ. MDE Coach Stipend: One per building for all robotics **Grant for ALL Rookie Teams** Rookie FTC Rebate Grant: **$1,553*** *Combination of FIRST HQ and FIRST in MI rookie team grants. For 24-25, rookie grant includes one partial set of game elements when a rookie team forms in a school new to FTC (1 per school), added $400 value.

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FIRST in Michigan

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	FIRST LEGO League CHALLENGE **FREE Kits for New Teams!**	FIRST LEGO League EXPLORE	FIRST LEGO League DISCOVER **FREE Kits for Underserved New Teams!**
LEVEL - If 6th grade is in a separate K-6 bldg, *FIRST*® LEGO® League Challenge is appropriate.	**LATE ELEMENTARY GRADES 4 - 5**	**EARLY ELEMENTARY GRADES K-3 ONLY**	**EARLY ELEMENTARY PRESCHOOL ONLY**
OVERVIEW - Teams are guided by adult coaches and *FIRST*® Core Values - Annual program themes	Teams develop a solution to a real-world problem and design, build, program autonomous robots to perform missions using exclusive LEGO® models. Multiple coding platforms supported.	Teams design and build a Model based on the Challenge and program it to move. They share their research and journey via a Team Poster. Scratch based block coding builds logic skills.	Teams build a solution to the Challenge with LEGO® DUPLO® elements. Early coding skills such as problem solving and critical thinking are developed.
KIT TYPE *reusable kit	LEGO® SPIKE PRIME	LEGO® SPIKE Essential	LEGO® Education Discovery Set
SEASON INFO	**Register:** May - November **Season Starts:** September **Events:** November - December	**Register:** May – April **Season Starts:** September **Events:** November - May	**Register:** May – March **Season Starts:** August **Events:** November - May
TEAM SIZE	Maximum of 10 students, 6 students ideal	Maximum of 6 students	Classroom of up to 30 students
TIME COMMITMENT	1-3 hr meeting held weekly for 8-12 weeks	1 1-½ hr meeting held weekly for 12 weeks	1 hr meeting once a week for 10 weeks
WAYS TO ENGAGE	**Competition Team:** Majority of teams meet after school. Can be done as a co-curricular or extracurricular activity. **Class Pack + Competition:** Students apply what they learn in the classroom to their team	**Competition Team:** Majority of teams meet after school. Can be done as a co-curricular or extracurricular activity. **Class Pack + Competition:** Students apply what they learn in the classroom to their team	**Class Pack:** Discover can be incorporated into the regular school day and/or as a child care or summer enrichment program.
PROGRAM COSTS -Product costs include shipping	**Competition Team** **Rookie** / **Veteran** Yrly Reg. Fee + Challenge Set*: $374* / $374* Reusable Kit: $560 / $0 **Total (before rebate below):** **$934** / **$372** Event Fee: $ 75 Discretionary Costs: $200- $400 **Class Pack** **Curriculum w/ challenge sets** Annual reg (24 students) $933 LEGO® SPIKE Prime kit* (each): $554 *1 robot kit per 4 students; kits are reusable year to year	**Competition Team** **Rookie** / **Veteran** $143* / $143* $335 / $ 0 **$478** / **$ 143** $50 $100-$500 **Class Pack** **Curriculum w/ challenge sets** Annual reg (24 students) $785 LEGO® SPIKE Essential kit* (each): $335 *1 robot kit per 4 students; kits are reusable year to year	**Class Pack - Curriculum w/ challenge sets** **Rookie** / **Veteran** Annual reg* $233 / $233 STEAM Park set (each)* $235 / $ 0 **$468** / **$233** *1 Class Pack/Steam Park per 8 students; Steam Parks are reusable year to year
AVAILABLE GRANTS (teams) Visit the *FIRST*® in Michigan website GRANTS page for a program's available grants, requirements, and eligibility criteria.	**GRANT for Rookie Teams** Rookie Rebate Grant: **$934** **MDE State Grant (Estimated)*** Up to $1100 Rookie Yr Up to $500 All other Yrs Up to $1500 Coach Stipend *Public and nonpublic school grants available; amounts may differ. MDE Coach Stipend: One per building for all robotics.	**MDE State Grant (Estimated)*** Up to $500 Rookie Yr Up to $300 All other Yrs Up to $1500 Coach Stipend *Public and nonpublic school grants available; amounts may differ. MDE Coach Stipend: One per building for all robotics.	**LEGO® Foundation Grant:** $1,431 for underserved and underrepresented populations; limited grants available. **MDE State Grant (Estimated)*** Up to $500 Rookie Yr Up to $300 All other Yrs Up to $1500 Coach Stipend *Public and nonpublic school grants available; amounts may differ. MDE Coach Stipend: One per building for all robotics.