



Grants and Progression of Programs Overview

1 of 2

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For more info, contact:
GAIL ALPERT
(248) 425-4148
gail@firstinmichigan.org

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 7, 2023
Competitions: March – April

Register: May 2023-March 2024
Season Starts: September; Kickoff and game reveal is Sept. 9
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
- Yearly Registration Fee:
- Kit of Parts:
- Total :**
- Event Fee:
- Discretionary Costs:

Competition Teams

Rookie	Veteran
\$6,000	\$6,000
<u>Included</u>	<u>Included</u>
\$6,000	\$6,000
2 district events included	
\$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.

Competition Teams

Rookie	Veteran
\$ 295	\$ 295
<u>\$ 1,185</u> *reusable	<u>\$ 0</u>
\$ 1,480	\$ 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 \$1,000 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: **\$1,480***
*Combination of FIRST HQ and FIRST in MI rookie team grants.

For 23-24, rookie grant includes one partial set of game elements when a rookie team forms in a school new to FTC (1 per school), added \$375 value.






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LEVEL - If 6th grade is in a separate K-6 bldg, <i>FIRST</i> ® 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 <i>FIRST</i> ® 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 Yrly Reg. Fee + Challenge Set*: Reusable Kit: Total (before rebate below): Event Fee: Discretionary Costs:	<table><tr><th colspan="2">Competition Team</th><th>Class Pack</th></tr><tr><th>Rookie</th><th>Veteran</th><th>Curriculum w/ challenge sets</th></tr><tr><td>\$372*</td><td>\$372*</td><td>Annual reg (24 students) \$933</td></tr><tr><td>\$554</td><td>\$0</td><td>LEGO® SPIKE Prime kit* (each): \$554</td></tr><tr><td>\$926</td><td>\$372</td><td></td></tr><tr><td>\$ 75</td><td></td><td>*1 robot kit per 4 students; kits are reusable year to year</td></tr><tr><td>\$200- \$400</td><td></td><td></td></tr></table>	Competition Team		Class Pack	Rookie	Veteran	Curriculum w/ challenge sets	\$372*	\$372*	Annual reg (24 students) \$933	\$554	\$0	LEGO® SPIKE Prime kit* (each): \$554	\$926	\$372		\$ 75		*1 robot kit per 4 students; kits are reusable year to year	\$200- \$400			<table><tr><th colspan="2">Competition Team</th><th>Class Pack</th></tr><tr><th>Rookie</th><th>Veteran</th><th>Curriculum w/ challenge sets</th></tr><tr><td>\$143*</td><td>\$143*</td><td>Annual reg (24 students) \$785</td></tr><tr><td>\$335</td><td>\$ 0</td><td>LEGO® SPIKE Essential kit* (each): \$335</td></tr><tr><td>\$478</td><td>\$ 143</td><td></td></tr><tr><td>\$50</td><td></td><td>*1 robot kit per 4 students; kits are reusable year to year</td></tr><tr><td>\$100-\$500</td><td></td><td></td></tr></table>	Competition Team		Class Pack	Rookie	Veteran	Curriculum w/ challenge sets	\$143*	\$143*	Annual reg (24 students) \$785	\$335	\$ 0	LEGO® SPIKE Essential kit* (each): \$335	\$478	\$ 143		\$50		*1 robot kit per 4 students; kits are reusable year to year	\$100-\$500			<table><tr><th colspan="3">Class Pack - Curriculum w/ challenge sets</th></tr><tr><th></th><th>Rookie</th><th>Veteran</th></tr><tr><td>Annual reg*</td><td>\$231</td><td>\$231</td></tr><tr><td>STEAM Park set (each)*</td><td>\$225</td><td>\$ 0</td></tr><tr><td></td><td>\$421</td><td>\$231</td></tr></table> *1 Class Pack/Steam Park per 8 students; Steam Parks are reusable year to year	Class Pack - Curriculum w/ challenge sets				Rookie	Veteran	Annual reg*	\$231	\$231	STEAM Park set (each)*	\$225	\$ 0		\$421	\$231
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State and Private Grants for All Program Levels 2023-24 Amounts by Program

 FIRST PROGRAM	Registration Fee ****	Team Grants			FUNDS LEFTOVER AFTER REGISTERING	Coach Grants			TOTAL PROGRAM GRANTS
		MDE Team Support Award*	Addit'l Team Grant Support from FIRST & FIRST in Mi	TOTAL Team Support		MDE Coaching Stipend**	FIRST in MI New Coach Signing Bonus***	TOTAL Coaching Grants	
High School FRC									
FIRST Robotics Competition - Rookie	\$6,000	\$9,000	\$6,000	\$15,000	\$9,000	\$1,500	\$5,000	\$6,500	\$21,500
FIRST Robotics Competition - Veteran	\$6,000	\$6,000	-	\$6,000	-	\$1,500		\$1,500	\$7,500
Middle School FTC									
FIRST Tech Challenge - Rookie	\$1,480	\$2,200	\$1,480	\$3,680	\$2,200	\$1,000		\$1,000	\$4,680
FIRST Tech Challenge - Veteran	\$295	\$1,500		\$1,500	\$1,205	\$1,000		\$1,000	\$2,500
Late Elementary- FLL Challenge									
FIRST LEGO League-Challenge - Rookie	\$926	\$1,100	\$926	\$2,026	\$1,100	\$500		\$500	\$2,526
FIRST LEGO League-Challenge - Veteran	\$372	\$500		\$500	\$128	\$500		\$500	\$1,000
Early Elementary- FLL Explore									
FIRST LEGO League-Explore - Rookie	\$478	\$500		\$500	\$77	\$500		\$500	\$1,000
FIRST LEGO League-Explore - Veteran	\$143	\$300		\$300	\$157	\$500		\$500	\$800
PreSchool and Early K									
FIRST LEGO League-Discover - Rookie	\$421	\$500	*****	\$500	\$79	\$500		\$500	\$1,000
FIRST LEGO League-Discover - Veteran	\$231	\$300	*****	\$300	\$69	\$500		\$500	\$800

* Per legislative language a percentage reduction could be applied to all applicants if the school district requests for awards exceeds the appropriated amount.

** Limit of \$1500 in stipends per building for all robotics

*** While funding lasts

**** Registration Fee Includes:

FRC: reg fee, kit and two district competitions

All Others:

Rookie: Reg fee and reusable kit

Veteran: Reg fee

***** Inquire about LEGO Foundation grant which pays for everything if the school is underserved