



FIRST®

World's Leading Youth-Serving Nonprofit Advancing STEM Education



FIRST
LEGO
LEAGUE

FIRST
TECH
CHALLENGE

FIRST
ROBOTICS
COMPETITION

FIRST[®] is ...

... a robotics community preparing
young people for the future



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The *FIRST* Mission

The mission of *FIRST* is to provide life-changing robotics programs that give young people the skills, confidence, and resilience to build a better world.



Over 2.5 million youth reached globally in 30+ years

FIRST 2022-2023 Season: Performance

Total Youth Served

668K+

Youth Served
Increased 25%
from 534K+ in FY2022

FIRST® LEGO® League
Youth Served:

497K+

FIRST® Tech Challenge
Youth Served:

87K+

FIRST® Robotics Competition
Youth Served:

83K+

Volunteer/Educator Roles

316K+

Volunteer/Educator Hours

28M+

Total Countries

106

Increase from 98 in FY2022

3,100+

Scholarship Opportunities

FIRST is a Robotics Community Preparing Young People for the Future

Together with our sponsors, partners, mentors, and volunteers, we're able to accomplish great things:



BUILDING YOUR FUTURE WORKFORCE

Thrilling, team-based robotics competitions equip students with STEM workforce skills and instill self-confidence



BUILDING A COMMUNITY OF GLOBAL CITIZENS

An inclusive community and powerful mentorship relationships empower young people to think big and look forward



BUILDING A BETTER FUTURE

We inspire young people to channel their raw curiosity and seek ways to improve the world around them

FIRST Programs

Inspiring youth in STEM from PreK-12



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2023-2024 *FIRST* Season

FIRST. IN SHOWSM

PRESENTED BY Qualcomm



PRESENTED BY RTX



PRESENTED BY HAAS
Gene Haas Foundation



AGES 4-16*

GRADES PreK-8

- Students engage in hands-on STEM experiences using LEGO® Education bricks and technology, building habits of learning, confidence, and teamwork skills along the way.
- Three age-appropriate divisions inspire youth to experiment and grow their critical thinking, coding, and design skills:
 - Discover for ages 4-6, grades PreK-1 (Class Pack only)
 - Explore for ages 6-10, grades 2-4
 - Challenge for ages 9-16*, grades 4-8



[Watch FIRST LEGO League in Action](#)



*Ages vary by country



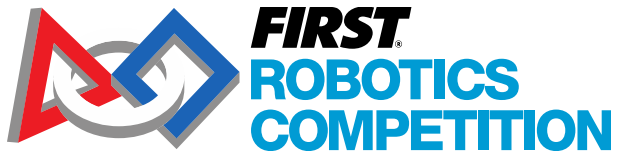
AGES 12-18
GRADES 7-12

- Teams design, build, and program robots, develop strategy, and engage in thrilling, head-to-head competition.
- Robot kit is reusable year-to-year and coded in a variety of languages.
- Students are guided by adult coaches and mentors, develop STEM skills, practice engineering principles, and realize the value of innovation and teamwork.



[Watch *FIRST* Tech Challenge in action](#)



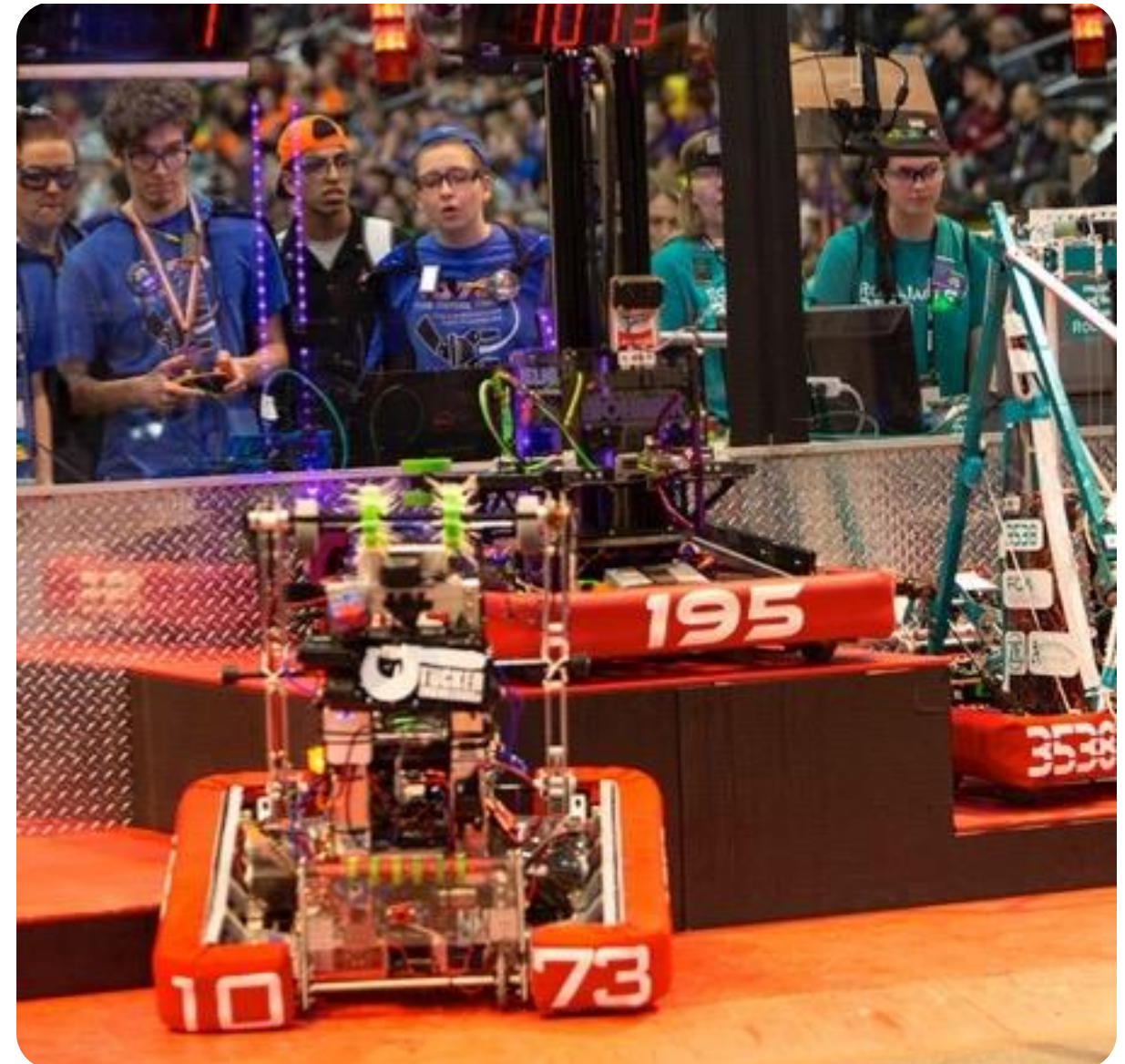


AGES 14-18
GRADES 9-12

- Teams compete with 125-pound robots, combining the excitement of sport with the rigors of science and technology.
- Action-packed themed field game is played in an alliance format.
- Each team develops a brand, raises funds to meet its goals, and works to promote STEM in the local community.



[Watch *FIRST* Robotics Competition in action](#)



Impact

FIRST Longitudinal Study: 2023 Update



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Key Findings

FIRST students are prepared for greater success in the classroom and workforce.

Interest, rather than academic proficiency, is a greater predictor of children pursuing studies and careers in STEM fields. Our evidence-based programs use strategies known to increase student interest and engagement in science, technology, engineering, and math (STEM), including:



Hands-on learning



Working as a team on real-life problems



Exposure to careers and adult mentors



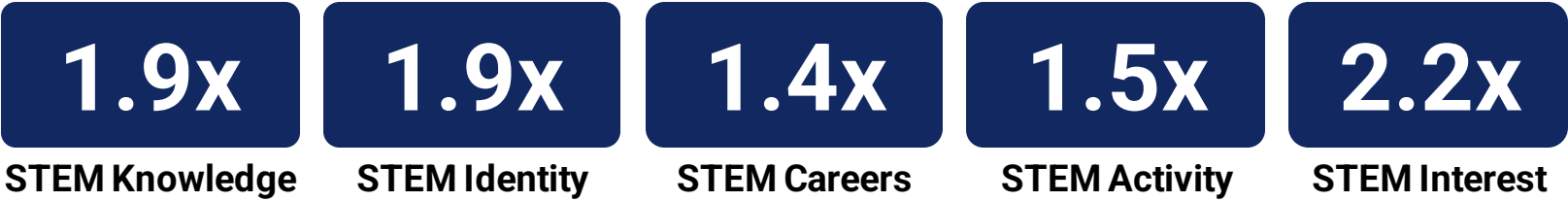
Emphasis on *FIRST* Core Values



Culminating celebration where students can showcase what they created and learned

An Increase in STEM-Related Attitudes

108 months after enrollment, *FIRST* students are still roughly two times more likely to show an increase in STEM-related attitudes than comparison group students.



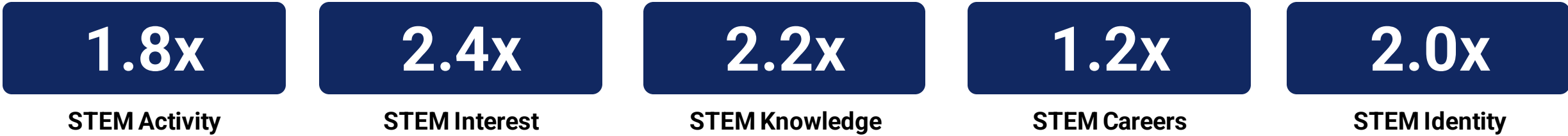
Learn more at firstinspires.org/impact

All results are statistically significant at p<.05. Estimated impacts are based on the difference between STEM scale scores at baseline and 108 months. Controlling for Gender, Race, Honors Courses, Family Income, and Parental Support for STEM

Key Findings

Female *FIRST* STEM Outcomes

Female *FIRST* participants are more likely to have significantly stronger STEM interest than comparison group peers, and are more likely to have significantly stronger outcomes in STEM attitudes, knowledge, and interests compared to their peers



Female *FIRST* STEM Pathways

Female *FIRST* alumni are more likely to pursue STEM pathways through 4 years of college compared to their peers in the comparison group:

MORE LIKELY TO TAKE COURSES IN:



MORE LIKELY TO HAVE DECLARED A MAJOR IN:



Learn more at firstinspires.org/impact

All results are statistically significant at $p \leq .05$. Estimated impacts are based on the difference between STEM scale scores at baseline and 108 months. Controlling for Gender, Race, Honors Courses, Family Income, and Parental Support for STEM

Opportunities to Get Involved

Help us move *FIRST* forward



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Team Mentor, Coach, and Volunteer Opportunities

As a mentor, coach, or event volunteer, you can join the global support system we've built to help young people find what makes them come alive – and be re-energized yourself.

FIRST TEAM MENTORS AND COACHES:

- Empower young people to think big via experiences throughout their season
- Can be a person of any age, teaching others what they know
- Bring either technical or non-technical expertise to the team
- Your employees can fill out the [Mentor Interest Form](#) to learn more

FIRST EVENT VOLUNTEERS:

- Can be in the center of the action as a match announcer or field reset crew or support teams in the pits as a judge or pit admin.
- Many roles are available, including technical (inspecting robots, refereeing matches) and non-technical (announcing matches, interviewing/judging teams)
- Time commitment can be as short as a few hours



Team Mentor, Coach, and Volunteer Opportunities

We Need Your Help!

Please reach out if you are interested in mentoring or volunteering with *FIRST*, in your area, or would like to learn.

Contact:

David Berggren

FIRST Senior Regional Director

Dberggren@firstinspires.org

[Mentor Interest Form](#)

We are here to answer any questions you may have and support you through the process of getting involved with *FIRST*



Questions?



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Robot Demo



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2023 FIRST Robotics Competition Game

Demo Teams:

Team 1538 – The Holy Cows – High Tech High

Team 2485 – W.A.R. Lords – Francis Parker

Game Videos:

[Game Animation](#)

[San Diego Regional Match - 2485](#)

[FIRST Championship – Newton Division Final Match - 1538](#)