



# HOW IT WORKS

AGES	GRADES
9-16*	4-8

We express the *FIRST* philosophies of *Gracious Professionalism*® and *Coopertition*® through *FIRST* Core Values:

- **Discovery:** We explore new skills and ideas.
- **Innovation:** We use creativity and persistence to solve problems.
- **Impact:** We apply what we learn to improve our world.
- **Inclusion:** We respect each other and embrace our differences.
- **Teamwork:** We are stronger when we work together.
- **Fun:** We enjoy and celebrate what we do!

Friendly competition is at the heart of *FIRST*® LEGO® League Challenge, as teams of students ages 9-16\* engage in research, problem-solving, coding, and engineering – building and programming a LEGO® robot that navigates the missions of a Robot Game. As part of Challenge, teams also participate in an Innovation Project to identify and solve a relevant real-world problem.

**CHILDREN:**

- Understand real-world uses of STEM
- Apply critical thinking skills
- Build habits of learning

**WHAT IT OFFERS:**

- Application of science and math concepts
- Hands-on problem solving
- Programming experience
- New real-world themed Challenge each year
- Sports-like tournaments with judges and awards

**“I want to build things nobody else has even thought of yet.”**

— CHARLES PETERSON, TEAM MEMBER (10 YEARS OLD)

**GET STARTED:**

- Teams of up to 10 children, ages 9 to 16\*
- Adult coaches and mentors
- Meeting place (school, after-school, homeschool, or community space)
- Parents, teachers, community volunteers to help
- 12 sessions
- LEGO Education SPIKE™ PRIME or LEGO MINDSTORMS® Robot Set (reusable) and annual Challenge Set

\*Ages vary by country



## PROVEN, VERIFIABLE IMPACT!\*\*



87% Express Interest in  
Doing Well in School



95% Time Management  
Skills Increase



99% Teamwork  
Skills Increase

## SEASON OVERVIEW

**MAY-SEPTEMBER**  
Online team registration

**AUGUST**  
Challenge release

**SEPTEMBER-MARCH**  
Build, program, and  
research

**NOVEMBER-MARCH**  
Tournament season

**APRIL-JUNE**  
World Festival/Opens

**FOR INFORMATION ABOUT *FIRST* IN YOUR AREA**

[www.firstlegoleague.org/find-first](http://www.firstlegoleague.org/find-first)



FIRST LEGO League introduces science, technology, engineering, and math (STEM) to children ages 4-16 (ages vary by country) through fun, exciting hands-on learning. The program consists of three divisions by age group: *FIRST* LEGO League Discover (ages 4-6); *FIRST* LEGO League Explore (ages 6-10); and *FIRST* LEGO League Challenge (ages 9-16).



\*\*Brandeis University, 2013 *FIRST*® LEGO® League Evaluation Study

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