



FIRST LEGO League Info Meeting

Girl Scouts – Diamonds of Arkansas, Oklahoma
and Texas

STEAM Center at Burnham Woods

Agenda

1. Why robotics?
2. About FIRST LEGO League
3. Discover, Explore, or Challenge
4. Who can participate?
5. Forming a team
6. Council support

Why Robotics?

- 81% of robotics evaluation participants agreed that because of Girl Scouts, I've been a leader in more activities with friends, class or community
- Robotics participants consider working with others on a team (77%) and building things with their hands (73%) the most important components of their STEM programs
- Participants of Girl Scouts' FIRST Robotics program said it has increased their interest in science or engineering (48%) and in designing things (52%) more than other programs

About FIRST LEGO League



Discovery



Innovation



Impact



Inclusion



Teamwork



Fun

FIRST[®] LEGO[®] League introduces science, technology, engineering, and math (STEM) to children ages 4-16 through fun, exciting hands-on learning. Participants gain real-world problem-solving experience through a guided age-appropriate, global robotics program, helping today's students and teachers build a better future together.





Progression of Challenges

Every year, *FIRST*[®] LEGO[®] League releases a new Challenge based on a real-world, scientific theme.

Discover Ages 4-6

Starting with Discover, children are introduced to the fundamentals of STEM while working together to solve fun challenges and building models using LEGO® DUPLO® bricks.

**FIRST
LEGO
LEAGUE**
DISCOVER

AGES
4-6



This playful introductory STEM program ignites young students' natural curiosity and builds their habits of learning with hands-on activities in the classroom and at home using LEGO® DUPLO® bricks.


Get Started with
FIRST LEGO League Discover

Explore Ages 6-10

As participants progress into Explore, children will take their background knowledge of STEM and put it into practice as they work in teams to design and build robots using the LEGO Education WeDo 2.0 system.

**FIRST
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LEAGUE**
EXPLORE

AGES
6-10



In Explore, teams of students ages 6-10 focus on the fundamentals of engineering as they explore real-world problems, learn to design, and code, and create unique solutions made with LEGO bricks and powered by LEGO® Education WeDo 2.0.

Get Started with
FIRST LEGO League Explore


Challenge Ages 9-16

At the Challenge level, they apply their STEM skills combined with critical thinking to work with a team, build a robot, and compete in an exciting, mission-based robotics game.

**FIRST
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LEAGUE**

CHALLENGE

AGES
9-16



Friendly competition is at the heart of 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.

*ages vary by country

Get Started with
FIRST LEGO League Challenge



Real-World Problem Solving

Not just robotics, but also Take Action!

Who can participate?

GS Members, whole troop, partial troops, multiple teams within a large troop, Juliettes, etc.

**Girl Scout registration required*

Team formation:

2 coaches

10-12 meetings

6-10 team members

Glance at a Season Timeline

Early-mid May	FIRST season registration opens
Mid-late May	Girl Scouts Team applications due
May/June	Girl Scouts sets up accounts, Register your team with FIRST
June-July	Meet with teams, practice basics
August	Challenge is released
Aug-Oct/Nov	Regular meetings should be held
Sept/Oct	Tournament registration
Nov/Dec	Tournament qualifiers

HOW WILL GIRL SCOUTS – DIAMONDS PROVIDE SUPPORT?

Experienced guest speakers:

Richard Cassady – Program Delivery Partner & Tournament Director

Sandra & Morgan Ware (NWA) – Whatchamacallits & Cookie Kickers

Candace Hawkins (NEA) – Girl Power



So you think you're ready! Next steps...

1. Secure your minimum 2 unrelated team coaches
2. Collect interest from your troop, local affiliations, or friend groups
3. Submit a team application

*Submitting an application does not guarantee council funding

Thank You!

Bonnie King

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