

What do you do in *FIRST*® LEGO® League?

FIRST® LEGO® League teams are composed of three to ten children with two adult coaches. Contrary to popular belief, our coaches DO NOT need technical experience. In FLL, the children do the work while guided by the **FLL Core Values**.

Each year, *FIRST*® releases a new Challenge which is based upon a real world scientific topic. There are two major elements to the FLL Challenge.

The Robot Game: Teams build and program an autonomous LEGO® Mindstorms® robot to perform tasks on a printed field. These tasks, or missions, are related to the Challenge theme.

The Project: Through the project teams learn more about the science behind the Challenge theme. They use their creativity to design an innovative solution to a real world problem.

To find information on *FIRST*® and the Challenge, visit <http://www.firstinspires.org/robotics/fll>

How do I find/start a team?

EmBe does not create the teams, you do. Teams can be part of school groups, 4H, community groups, neighborhood groups, church groups, or just a group of friends who want to experience the fun and excitement of FLL. If you are looking for a team, you can attend one of our information sessions and find like minded people or use *FIRST*'s Team Up link.

What does the *FIRST*® LEGO® League season look like?

May – Sept.: teams form, register and order their materials (robot and Challenge Set from *FIRST*®).

Late Aug.: The Challenge is released and teams begin to prepare for the qualifying competitions.

Mid Oct.: Registration for Regional Qualifiers opens.

Nov - Dec.: Regional Qualifiers

Late Jan. – Early Feb.: State Championship.

Teams should check the *FIRST*® LEGO® League web page under youth programs at www.EmBe.org for information and advice on having a successful FLL season.

What happens at a competition?

An FLL competition is a high energy, exciting event. Teams will have three robot runs in a sports arena like atmosphere. During a 2.5 min run, they will have their robot attempt as many missions as possible. They will also have three judged events. They will present their research and innovative solution to project judges, explain their robot design to robot design judges, and be judged on their team work by core values judges.

Approximate Costs for a first year team:

EV3 Robot Set (paid to LEGO® and reused each year) \$439
National Team Registration (Paid to *FIRST*®) \$225
Challenge Set (Paid to LEGO®) \$75
Regional Tournament Registration (Paid to EmBe) \$65
State Championship Registration (Paid to EmBe) \$150 – not all teams advance to the State Championship.

Approximate Costs for a second year team:

National Team Registration (Paid to *FIRST*®) \$225
Challenge Set (Paid to LEGO®) \$75
Regional Tournament Registration (Paid to EmBe) \$65
State Championship Registration (Paid to EmBe) \$150 – not all teams advance to the State Championship.

***Non competition costs are determined by the national organization and may vary each year.**



The **FIRST**® LEGO® League Core Values

- We are a team.
- We do the work to find solutions with guidance from our coaches and mentors.
- We know our coaches and mentors don't have all the answers; we learn together.
- We honor the spirit of friendly competition.
- What we discover is more important than what we win.
- We share our experiences with others.
- We display [Gracious Professionalism](#)® and Coopertition® in everything we do.
- We have FUN!

EmBe strives each day to be a place of empowerment, where women excel, where children and youth thrive, where families succeed and where the community is enriched by our work.

Our Values

We...

- Are responsible **Stewards** of the resources entrusted to us
- Demonstrate and cultivate **Leadership**
- Keep **Dignity and Respect** at the core of our relationships
- Sustain a reputation for **Excellence**
- Embrace **Innovative Thinking**



Empowering You To Be

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FIRST® LEGO® League (FLL) is a robotics program for 9 to 14 year olds designed to get children excited about science, math and technology -- and teach them valuable 21st century life skills. In **FIRST**® LEGO® League, kids design and program LEGO® Mindstorms robots. They research challenges facing today's scientists. They learn critical thinking, team building and presentation skills. They exercise their creativity and innovative thinking... all while having a lot of fun!

