



FIRST Lego League Primer

What is FIRST Lego League (FLL)?

- Program for 10*-14 years old
- Pairs an **academic challenge** with a sports-like playing field where kids use Lego Mindstorms Robots that they create to compete with others.



* 9 year olds can be in FLL with approval and FLL Jr experience.

What is FIRST?

- For Inspiration and Recognition of Science and Technology.
- International not-for-profit public charity set up by inventor Dean Kamen in 1989.

What is the Goal of FIRST?

- To inspire young people to be science and technology leaders by engaging them in exciting programs that build science, engineering, and technology skills, that inspire innovation, and that foster well-rounded life capabilities including self-confidence, communication, and leadership.

FIRST Lego League Teams Get To:

- Research challenges facing today's scientists
- Design, build, test and program robots using LEGO Mindstorms technology
- Apply real-world math and science concepts
- Learn critical thinking, team-building, and presentation skills.
- Participate in tournaments and celebrations
- Understand and practice "Gracious Professionalism"

Moorestown Robotics FLL Team Concepts:

- Mixture of boys and girls with assortment of ages
- Two coaches per team (mandatory)
- Ideal team size is 6-8 kids.
- **Total number of teams is based on available coaches.**

Moorestown Robotics FLL Season:

- Aug/Sept through January or longer.
- Can compete into February if team wins competitions.
- Team typically meet 1x a week for a couple hours and more frequently just prior to competitions.

Components of FLL:

- (1/4) Robot game
- (1/4) Project Presentation – based on annual topic
- (1/4) Core Values Presentation
- (1/4) Robot Design

Team Sign Ups:

- Team sign in mid to late May.
- Register on our website for the newsletter for notification.
- Sign up at <http://www.moorestownrobotics.com>
- Cost is expected to be between \$200 and \$250 per person.
- Open spots are limited by the number of teams.
- The number of teams is limited by the number of coaches.
- **The ONLY way to guarantee your child gets on a team is to coach!**

Any Special Skills Required:

- All skill levels are welcomed and needed, technical and non-technical.
- Students are encouraged to bring any skills or interests they already have, but most importantly a **desire to learn and solve problems as a team.**

Coaching Information

- The best coaches are people with an INTEREST in science and technology, and in helping kids discover and learn.
- YOU DO NOT HAVE TO BE AN ENGINEER OR HAVE A SCIENCE BACKGROUND. No special technical skills required
- Time commitment:
 - Meet 1x per week for 2 hours, plus the same amount of time for meeting preparation.
- Meeting Locations: Typically a coach's house.
 - The coaching pair works out where/when to meet.

Sign Up to be a Coach:

- Sign up to be a coach at www.moorestownrobotics.com by May 18th, and attend a perspective coaches meeting in May/June. *This is different then the team sign up.*
- You will be paired with another coach.

More information can be found at <http://www.moorestownrobotics.com> and <http://www.firstinspires.org>