FIRST LEGO LEAGUE
2016-2017
Welcome to the Kick-Off!
Welcome to the Kick-Off!

Shannon Page
FLL Coordinator
Perot Museum of Nature and Science
shannon.page@perotmuseum.org
Agenda
Agenda

• What is the FIRST LEGO League (FLL)?
Agenda

• What is the FIRST LEGO League (FLL)?
• Season Timeline
Agenda

- What is the FIRST LEGO League (FLL)?
- Season Timeline
- Team Requirements
Agenda

• What is the FIRST LEGO League (FLL)?
• Season Timeline
• Team Requirements
• Competitions
Agenda

• What is the FIRST LEGO League (FLL)?
• Season Timeline
• Team Requirements
• Competitions
• Coaches and Mentors
Agenda

• What is the FIRST LEGO League (FLL)?
• Season Timeline
• Team Requirements
• Competitions
• Coaches and Mentors
• Resources
What is the FIRST LEGO League (FLL)?
What is the **FIRST** LEGO League (FLL)?

- **FIRST, LEGO, & the Perot Museum of Nature and Science**
What is the \textit{FIRST} LEGO League (FLL)?

- \textit{FIRST}, LEGO, & the Perot Museum of Nature and Science

- Who can participate?
What is the FIRST LEGO League (FLL)?

• *FIRST*, LEGO, & the Perot Museum of Nature and Science

• Who can participate?
  • Children aged 9-14
What is the FIRST LEGO League (FLL)?

• FIRST, LEGO, & the Perot Museum of Nature and Science

• Who can participate?
  • Children aged 9-14
  • 2-10 team members
What is the **FIRST** LEGO League (FLL)?

- **FIRST**, LEGO, & the Perot Museum of Nature and Science

- Who can participate?
  - Children aged 9-14
  - 2-10 team members
  - Working with 2 Coaches & Mentors
What is the FIRST LEGO League (FLL)?

• Goals for participants
What is the **FIRST** LEGO League (FLL)?

- Goals for participants
- Promote engineering, problem solving, teamwork and Gracious Professionalism.
What is the *FIRST* LEGO League (FLL)?

• Goals for participants
  • Promote engineering, problem solving, teamwork and Gracious Professionalism.
  • Competition experience.
What is the FIRST LEGO League (FLL)?

• Goals for participants
  • Promotes engineering, problem solving, teamwork and Gracious Professionalism.
• Competition experience.
• Extend classroom knowledge through hands-on, real-world engineering and science challenges.
Team Requirements
Team Requirements

• Robotics kit
Team Requirements

• Robotics kit
• Computer
Team Requirements

- Robotics kit
- Computer
- Meeting place
Team Requirements

• Robotics kit
• Computer
• Meeting place
• Challenge kit/Field set kit
Team Requirements

- Robotics kit
- Computer
- Meeting place
- Challenge kit/Field set kit
- Practice Table
Season Timeline
Season Timeline

- Challenge Announced
Season Timeline

- Challenge Announced

http://firstlegoleague.org/challenge#animal-allies
Season Timeline

• Challenge Announced
• Team Registration
Season Timeline

- Challenge Announced
- Team Registration

http://www.firstinspires.org/robotics/fll/start-a-team
Season Timeline

• Clinics and Scrimmages
Season Timeline

• Clinics and Scrimmages

http://www.perotmuseum.org/fll
Season Timeline

• Qualifiers
Competitions

• Qualifiers
  • 32-45 teams
Season Timeline

- Qualifiers
  - 32-45 teams
- 1st Round
  - December 3rd
  - December 10th
  - December 17th
Season Timeline

- **Qualifiers**
  - 32-45 teams
- **1st Round**
  - December 3rd
  - December 10th
  - December 17th
- **2nd Round**
  - January 14th
  - January 21st
Season Timeline

- Qualifiers
  - Registration
    - 1st Come, 1st Served.
Season Timeline

• Qualifiers
• Registration
• 1st Come, 1st Served.
• Payment holds spot.
Season Timeline

• Qualifiers

• Registration
  • 1st Come, 1st Served.
  • Payment holds spot.
  • One-time $125 fee
Season Timeline

- Qualifiers
- Registration
  - 1st Come, 1st Served.
  - Payment holds spot.
  - One-time $125 fee
  - Online with credit card.
Season Timeline

• Qualifiers
• Registration
  • 1st Come, 1st Served.
  • Payment holds spot.
  • One-time $125 fee
  • Online with credit card.
  • Telephone with PO or check.
Season Timeline

- Qualifiers
  - Registration
    - 1st Come, 1st Served.
    - Payment holds spot.
    - Online with credit card.
    - Telephone with PO or check.
    - Closes November 18, 2016.
Season Timeline

- Qualifiers
- Registration
  - 1st Come, 1st Served.
  - Payment holds spot.
  - One-time $125 fee
  - Online with credit card.
  - Telephone with PO or check.
  - Closes November 18, 2016.
  - Do not register for your home school.
Season Timeline

- Championship
Season Timeline

- Championship
- February 4, 2017
Season Timeline

• Championship
  • February 4, 2017
  • Parish Episcopal School
Season Timeline

- Championship
- Invitationals
Competitions
Competitions

• 4 Categories
Competitions

• 4 Categories
  • Robot Design
Competitions

• 4 Categories
  • Robot Design
  • Judged presentation
Competitions

• 4 Categories
  • Robot Design
    • Judged presentation
    • Mechanical design
Competitions

• 4 Categories
  • Robot Design
    • Judged presentation
    • Mechanical design
    • Programming
Competitions

• 4 Categories
  • Robot Design
    • Judged presentation
    • Mechanical design
    • Programming
    • Design process
Competitions

• 4 Categories
  • Robot Design
  • Project
Competitions

• 4 Categories
  • Robot Design
  • Project
  • Judged presentation
Competitions

• 4 Categories
  • Robot Design
  • Project
  • Judged presentation
  • Project description
Competitions

• 4 Categories
  • Robot Design
  • Project
    • Judged presentation
    • Project description
    • Identify & research a problem
Competitions

- 4 Categories
  - Robot Design
  - Project
    - Judged presentation
    - Project description
    - Identify & research a problem
    - Innovative solution
Competitions

• 4 Categories
  • Robot Design
  • Project
    • Judged presentation
    • Project description
    • Identify & research a problem
    • Innovative solution
    • Share with others
Competitions

- 4 Categories
  - Robot Design
  - Project
  - Identify a problem when people and animals interact.
Competitions

• 4 Categories
  • Robot Design
  • Project
    • Identify a problem when people and animals interact.
    • Design a solution that makes the interaction better for animals, people, or both.
Competitions

• 4 Categories
  • Robot Design
  • Project
    • Identify a problem when people and animals interact.
    • Design a solution that makes the interaction better for animals, people, or both.
    • Share your problem and solution with others.
Competitions

• 4 Categories
  • Robot Design
  • Project
  • Core Values
Competitions

• 4 Categories
  • Robot Design
  • Project
  • Core Values
  • Judged activity
Competitions

• 4 Categories
  • Robot Design
  • Project
  • Core Values
    • Judged activity
    • Teamwork and cooperation
Competitions

• 4 Categories
  • Robot Design
  • Project
  • Core Values
    • Judged activity
    • Teamwork and cooperation
    • Doing the work
Competitions

- 4 Categories
  - Robot Design
  - Project
  - Core Values
    - Judged activity
    - Teamwork and cooperation
    - Doing the work
    - Friendly competition
Competitions

• 4 Categories
  • Robot Design
  • Project
  • Core Values
  • Robot Game
Competitions

• 4 Categories
  • Robot Design
  • Project
  • Core Values
  • Robot Game
    • Challenge Set
Competitions

• 4 Categories
  • Robot Design
  • Project
  • Core Values
  • Robot Game
    • Challenge Set
    • 3 rounds at 2.5 minutes each
Competitions

• 4 Categories
  • Robot Design
  • Project
  • Core Values
  • Robot Game
    • Challenge Set
    • 3 rounds at 2.5 minutes each
    • Complete Missions
Competitions

• 4 Categories
  • Robot Design
  • Project
  • Core Values
  • Robot Game
• Schedules
Competitions

• 4 Categories
  • Robot Design
  • Project
  • Core Values
  • Robot Game

• Schedules
• Pit Areas
Competitions

• Volunteers
Competitions

• Volunteers

https://my.usfirst.org/FIRSTPortal/Login/VIMS_Login.aspx
Competitions

• Volunteers
• Awards
Competitions

• Awards
  • Must participate in all 4 categories
Competitions

• Awards
  • Must participate in all 4 categories
  • FIRST rubrics
Competitions

• Awards
  • Must participate in all 4 categories
  • FIRST rubrics
  • Robot Performance is based solely on score
Competitions

• Awards
  • Must participate in all 4 categories
  • FIRST rubrics
  • Robot Performance is based solely on score
  • No team is allowed to win 2 awards unless 1 is for performance
Competitions

• Awards
  • Tournament hosts will not provide final rankings.
Competitions

• Awards
  • Tournament hosts will not provide final rankings.
  • Full list of Robot Performance scores will be released.
Competitions

• Awards
  • Tournament hosts will not provide final rankings.
  • Full list of Robot Performance scores will be released.
  • You can receive your team’s rubrics.
Competitions

- Qualifier Awards
  - 1st place Champion’s
  - 2nd place Champion’s
  - Core Values
  - Robot Design
  - Project
  - 1st place Robot Performance
  - 2nd place Robot Performance
  - Judges Award
  - Local Award
Competitions

- Championship Awards
  - 1st place Champion’s
  - 2nd place Champion’s
  - Inspiration
  - Teamwork
  - Gracious Professionalism
  - Mechanical Design
  - Programming
  - Strategy & Innovation
  - Research
  - Innovative Solution
  - Presentation
  - 1st place Robot Performance
  - 2nd place Robot Performance
  - Judges Award Local Award
  - Outstanding Volunteer
Coaches and Mentors
Coaches and Mentors

• Lead your team; don’t do the work for them.
Coaches and Mentors

• Lead your team; don’t do the work for them.
• Coordinate the team’s season.
Coaches and Mentors

• Lead your team; don’t do the work for them.
• Coordinate the team’s season.
• Be a resource.
Coaches and Mentors

- Read all communications thoroughly.
- Manage team dynamics.
- Keep track of the rules.
Coaches and Mentors

• Keep team on time during competitions.
• Encourage kids to solve their own problems.
• Consult the Coaches’ Handbook for Rules, Tips and Guidelines.
## Resources

<table>
<thead>
<tr>
<th>FIRST</th>
<th><a href="http://www.usfirst.org">www.usfirst.org</a></th>
<th>Official Rules for Robot Game and Project; Problems with your products.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perot Museum</td>
<td><a href="http://www.perotmuseum.org/fll">http://www.perotmuseum.org/fll</a></td>
<td>Events, Qualifier Registration and other information for the North Texas FLL Region.</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:shannon.page@perotmuseum.org">shannon.page@perotmuseum.org</a></td>
<td></td>
</tr>
<tr>
<td>Joe Varnell</td>
<td><a href="mailto:jvarnell@usfirst.org">jvarnell@usfirst.org</a></td>
<td>FIRST Senior Mentor</td>
</tr>
<tr>
<td>Community</td>
<td><a href="http://groups.google.com/group/northtexasfll">http://groups.google.com/group/northtexasfll</a></td>
<td>Scheduling scrimmages and practices, and team dynamics help.</td>
</tr>
</tbody>
</table>