Project Judging

FLL Judge Training
Objective

After completing this part of the training…

You will be able to assess FLL team projects and presentations.
Why a Project in FLL?

- **Empowerment** to solve real-world problems
- Develop life skills
  - Divergent thinking
  - Project management
  - Time management
  - Interpersonal communication
  - Presentation skills
- Learn base knowledge required for innovation
- Personal connection with STEM topic
- Explore careers and meet professionals

“Grown-ups never understand anything for themselves, and it is tiresome for children to be always and forever explaining things to them.”

Antoine de Saint-Exupery
Find the Project

http://www.firstlegoleague.org/challenge/thechallenge

The FLL Challenge has 3 parts - the Robot Game, the Project, and the Core Values.

Download Welcome to the Season, Part 1 video

Robot Game and Project

Download Challenge

Includes: Project, Robot Game (Field Setup, Missions, Rules)

Core Values

Learn about the FLL Core Values

Supplemental Materials

- Project
  - Project Video (YouTube version) - Project Manager, Jinnel Choiniere, reviews the access YouTube? Download the video.
  - Project FAQs - This page is the first place to go for answers to Project questions. Challenge document. You should also visit here often for answers to questions because the postings here contain official information that will be in effect at the
Season-Specific Requirements

Season-specific requirements will vary
• Some seasons won’t have any season-specific requirements
• Any requirements will be clearly stated in the Challenge

What happens if a team doesn’t follow the season-specific requirements?
• Judge should write a comment on the team’s rubric under Research, as they did not identify the problem within the Challenge requirements.
• Team is **not eligible** for Project Awards or Champions Awards
• Team is **not eligible** to advance
Project Presentations

Minimum 10 minute session in separate judging area

- 5 minute maximum for presentation
  - Uninterrupted
  - Includes setup
- 5 minutes minimum for judge questions
Project Presentations

Teams may
• Perform a skit
• Present PowerPoint slides
• Sing a song
• Present their projects in any creative way
Project Presentations

Teams must complete and demonstrate all requirements

1. Identify a real-world problem
2. Create an innovative solution
   - Solution does *not* need to be technical or technology based
3. Share their research and solution

Make sure to ask about any requirements not addressed in presentation.
Asking Project Questions

Ask questions that help you complete the rubric.

Problem Analysis:  *How did your team organize and use your research?*

Implementation:  *What resources would you need to develop your solution?*

Sharing:  *How did you share your project?*
Project Judging

Research
• Problem Identification
• Sources of Information
• Problem Analysis
• Review Existing Solutions

Innovative Solution
• Team Solution
• Innovation
• Implementation

Presentation
• Presentation Effectiveness
• Creativity
• Sharing
Project Judging

Research

Problem Identification
• Well defined problem statement

Sources of Information
• Quality, variety, and number of sources

Problem Analysis
• Sufficient to form own conclusions

Review Existing Solutions
• Shows effort to determine originality
Innovative Solution

Team Solution
• Clearly states how solution solves problem (does not need to be technical)

Innovation
• Improves existing options, new application of existing ideas, or new solution

Implementation
• Considered cost, ease of manufacturing, new inventions needed, etc.
Project Judging

Presentation

Presentation Effectiveness
• Well-organized, clear, includes all parts of the project

Creativity
• Entertaining and engaging

Sharing
• Who will benefit
## Project Rubric

### Project

**Team Number Judging Room**

**Directions:** For each skill area, clearly mark the box that best describes the team's accomplishments. If the team does not demonstrate skill in a particular area, then put an “X” in the box for “Not Demonstrated (ND).” Please provide as many written comments as you can to acknowledge each team’s hard work and to help them improve. When you have completed the evaluation, please circle the awards for which you would like this team to be considered.

<table>
<thead>
<tr>
<th>Rubric Area</th>
<th>Beginning</th>
<th>Developing</th>
<th>Accomplished</th>
<th>Exemplary</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Problem Identification</strong></td>
<td>F/L</td>
<td>L/F</td>
<td>L/F</td>
<td>L/F</td>
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<tr>
<td><strong>Sources of Information</strong></td>
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<td>D</td>
<td>D</td>
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<tr>
<td><strong>Problem Analysis</strong></td>
<td>D</td>
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</tr>
<tr>
<td><strong>Review Existing Solutions</strong></td>
<td>D</td>
<td>D</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td><strong>Team Solution</strong></td>
<td>F/L</td>
<td>L/F</td>
<td>L/F</td>
<td>L/F</td>
</tr>
<tr>
<td><strong>Innovation</strong></td>
<td>F/L</td>
<td>L/F</td>
<td>L/F</td>
<td>L/F</td>
</tr>
<tr>
<td><strong>Implementation</strong></td>
<td>F/L</td>
<td>L/F</td>
<td>L/F</td>
<td>L/F</td>
</tr>
<tr>
<td><strong>Sharing</strong></td>
<td>F/L</td>
<td>L/F</td>
<td>L/F</td>
<td>L/F</td>
</tr>
<tr>
<td><strong>Creativity</strong></td>
<td>F/L</td>
<td>L/F</td>
<td>L/F</td>
<td>L/F</td>
</tr>
<tr>
<td><strong>Presentation Effectiveness</strong></td>
<td>F/L</td>
<td>L/F</td>
<td>L/F</td>
<td>L/F</td>
</tr>
<tr>
<td><strong>Strengths:</strong></td>
<td>R/I/S/P</td>
<td>R/I/S/P</td>
<td>R/I/S/P</td>
<td>R/I/S/P</td>
</tr>
</tbody>
</table>

*Required for Award Consideration

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**Research**

**Innovative Solution**

**Presentation**

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Project Rubric

Judges evaluate team performance in each rubric criteria.

ND = “Not Demonstrated”
Project Rubric

Judges’ Comments are very important to teams. Constructive feedback helps teams grow.
Make Comments Meaningful

- Be specific when taking notes and discussing teams
- Specific comments more helpful than impressions
Feedback

- Constructive comments
- Teams work hard
- Treat them with respect
- Compliment with appropriate phrases
- Compliment accomplishments or cerebral prowess
- Communicate opportunities to improve positively
- Give specific evidence

“We cannot always build the future for our youth, but we can build our youth for the future”
Franklin D. Roosevelt
Comment Examples

- Your diagram helped us understand the problem you were studying.
- Good use of sources - journal articles, university professors, and field trips.
- The flip chart showed us how your solution would work.
- Good consideration of cost and materials, would have liked to see more about durability of the device.
- We appreciated that you shared with the firefighters who might benefit from quicker communications.
- Using lines from pop songs to present your project solution was imaginative.
Project Rubric

Circle team strength areas
- Recognition
- Acknowledgement
Award Eligibility

Live presentation

- A/V may be used as an enhancement only
- Teams may not simply “plug and play”

Complete all Project requirements

Demonstrate FLL Core Values
Teams for Award Consideration

<table>
<thead>
<tr>
<th>Teams who win awards <strong>stand out</strong> from other teams. They often...</th>
<th><strong>Avoid</strong> nominating a team for an award if the <strong>only</strong> reason they stand out is...</th>
</tr>
</thead>
</table>
| • Collaborate extensively with professionals  
• Research alternative solutions and explain why their solution is better  
• Collect their own data to support or test their problem or solution  
• Explain all three parts of the project, including sharing, in their presentation | • A large research notebook (Quality, quantity, and variety are all important)  
• An energetic or cute presentation |

**What does a team at the “Accomplished” level look like?**
Look at your Judge Prep Pack for a detailed example.
Tools for Project Judges

- Project Judging Prep Pack
- Project Judging Primer
- The Challenge document
- FLL Project Updates
- fllprojects@usfirst.org
ACTIVITY

- Review the FLL Project Rubric
- Find a video of a team at a FLL Project Judging session.
  - *What questions would you ask the team?*
  - *Complete the rubric for the team based on what you saw.*
- If possible, ask another person to do this with you, compare notes, and complete one rubric together.
FLL Volunteers are remarkable!
Contributors

- **Content Development**
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