



Judging

Awards and Rubrics
For
SENIOR SOLUTIONS



RUBRICS & PRIMERS

Rubric Format



FIRST® LEGO® League

FLL FIRST® LEGO® League		Project	Team Number Judging Room		
<p>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 first box for Not Demonstrated (ND). Please provide as many written comments as you can to acknowledge each team's hard work and to help teams improve. When you have completed the evaluation, please circle the awards for which you would like this team to be considered.</p>					
		Beginning	Developing	Accomplished	Exemplary
Research	Problem Identification*	Clear definition of the problem being studied			
	N	unclear; few details	partially clear; details missing	mostly clear; detailed	clear; very detailed
	D				
	Sources of Information	Types (e.g. books, magazines, websites, reports and other resources) and number of quality sources cited, including professionals in the field			
	N	one type of information cited; minimal sources	two types of information cited; several sources	three types of information cited; many sources, including professionals	four (+) types of information cited; extensive sources, i.e. professionals
	D				
Innovative Solution	Problem Analysis	Depth to which the problem was studied and analyzed by the team			
	N	minimal study; no team analysis	minimal study; some team analysis	sufficient study and analysis by team	extensive study and analysis by team
	D				
	Review Existing Solutions	Extent to which existing solutions were analyzed by the team, including an effort to verify the originality of the team's solution			
	N	minimal review; no team analysis	minimal review; some team analysis	sufficient review and analysis by team	extensive review and analysis by team
	D				
Presentation	Team Solution*	Clear explanation of the proposed solution			
	N	difficult to understand	some parts confusing	understandable	easy to understand by all
	D				
	Innovation	Degree to which the team's solution makes life better by improving existing options, developing a new application of existing ideas, or solving the problem in a completely new way			
	N	existing solution/application	solution/application contains some original element(s)	original solution/application	original solution/application with the potential to add significant value
	D				
Awards Consideration	Implementation	Consideration of factors for implementation (cost, ease of manufacturing, etc.)			
	N	minimal factors considered	some factors considered	factors well considered; some question about proposed solution	factors well considered and feasible solution proposed
	D				
	Sharing*	Degree to which the team shared their Project before the tournament with others who might benefit from the team's efforts			
	N	shared with one individual	shared with one group	shared with one individual or group who may benefit	shared with multiple individuals or groups who may benefit
	D				
Comments	Creativity	Imagination used to develop and deliver the presentation			
	N	minimally engaging OR unimaginative	engaging OR imaginative	engaging AND imaginative	very engaging AND exceptionally imaginative
	D				
	Presentation Effectiveness	Message delivery and organization of the presentation			
	N	unclear OR disorganized	partially clear; minimal organization	mostly clear; mostly organized	clear AND well organized
	D				
Awards Consideration:		Research	Innovative Solution	Presentation	

*Required for Award Consideration

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- List of criteria matched to Key FLL Takeaways
- Focus on comments (teams crave feedback!)
- Criteria linked to specific awards
- Streamlined text
 - Ease of use; translation
- Emphasis on team demonstration of all criteria
 - Note “ND” option
- Includes award considerations (more feedback!)

Criteria Block



		Beginning	Developing	Accomplished	Exemplary
Inspiration	Discovery	Balanced emphasis on all three aspects (Robot, Project, Core Values) of FLL; it's not just about winning awards			
	N	emphasis on only one aspect; others neglected	emphasis on two aspects; one aspect neglected	emphasis on all three aspects	balanced emphasis on all three aspects
	D				
	Team Spirit	Enthusiastic and fun expression of the team identity			
	N	minimal enthusiasm AND minimal identity	minimal enthusiasm OR minimal identity	team is enthusiastic and fun; clear identity	team engages others in their enthusiasm & fun; clear identity
	D				
Comments:	Integration	Application of FLL values and skills outside FLL (ability to describe current and potential examples from daily life)			
	N	team does not apply FLL values and skills outside FLL	team able to describe at least one example	team able to describe multiple examples	team able to describe multiple examples, incl. individual stories
D					

Awards Consideration Block



Awards Consideration:

Mechanical Design

Programming

Strategy & Innovation

- A way for judge pairs to track award nominations
- Additional feedback for teams

Global Standards Rubrics



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-
- **Global judging tool; must be utilized as provided**
 - **All rubric criteria shall be weighted equally**
 - **Each Rubric item shall be evaluated**

Rubric Primers

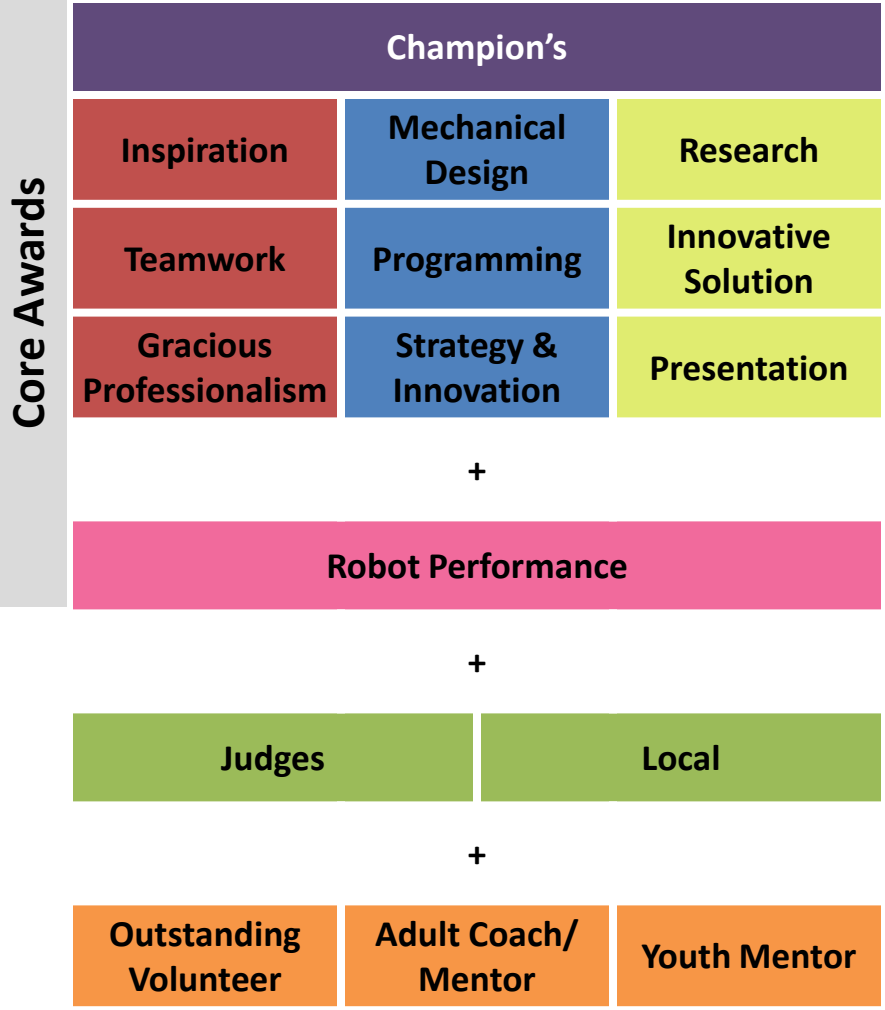


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- **Short clarifications and examples to orient judges to rubrics**
- **Address common questions**
- **Give judges common frame of reference for evaluations**

EVENT STRUCTURE & AWARDS

Event Structure



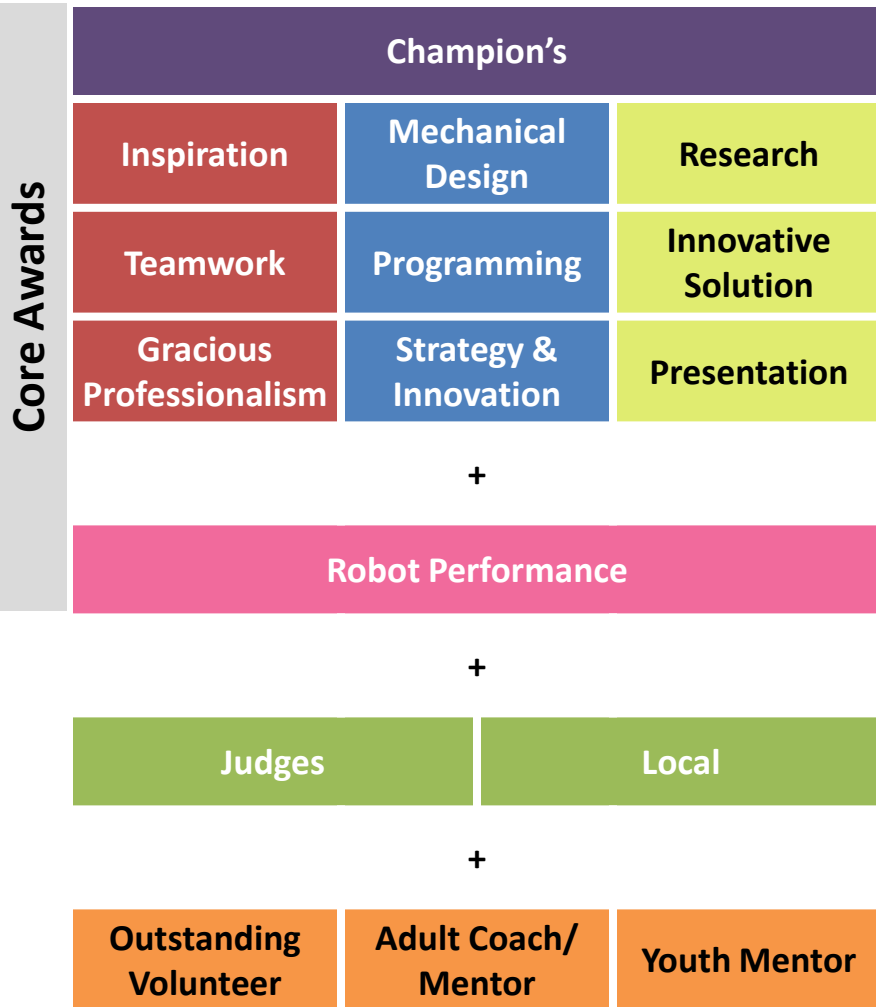
- Specifies set of required awards
 - Core awards all of equal weight, except Champion's
- Event size and type define requirements
- Champion's award required at all official events

Expanded Award Structure

All Championships / Option for Qualifier of any size



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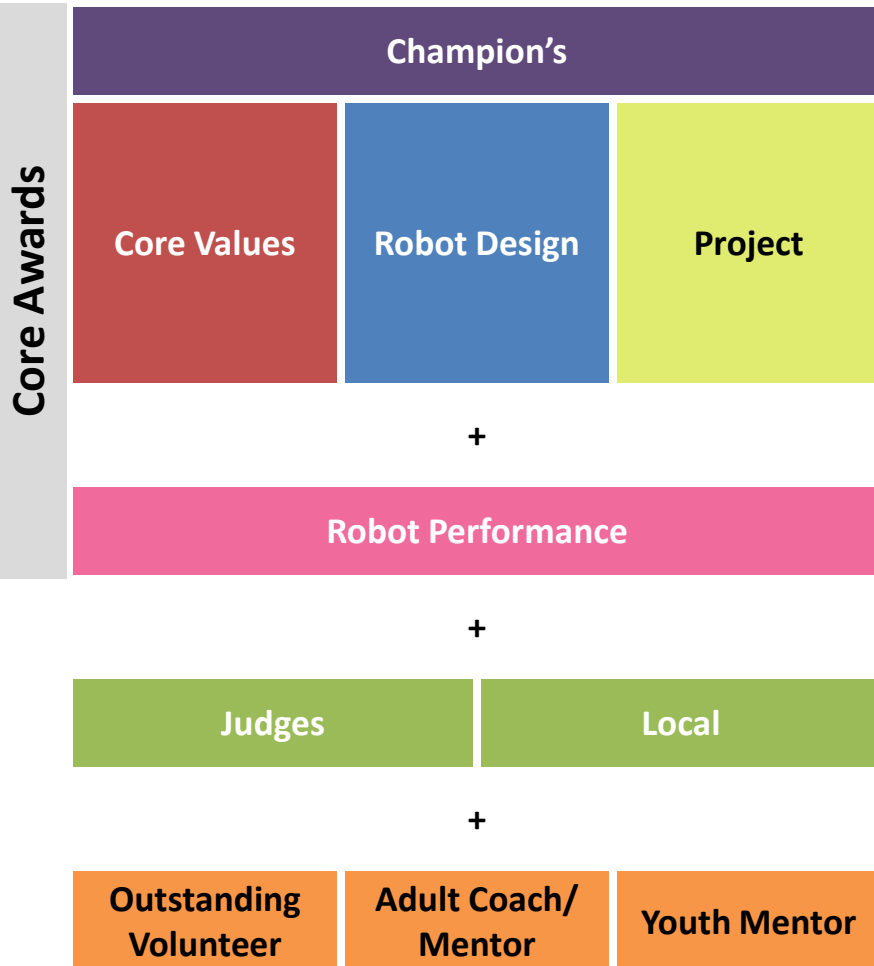
- **Champion's Award given to 1st and 2nd place (or more if desired)**
 - Only 1st place required for Qualifier
- **All other Core Awards given to equal depth**
 - Optional 2nd place Robot Performance if Champion's provided to at least 2nd place

Condensed Award Structure

Option for Qualifier of any size



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Required Awards:

- **1st place Champion's Award (at a minimum)**
- **All other Core Awards given to equal depth**
 - Determined by overall rank in that area
- **Robot Performance**