



Core Values

Team Number _____
Judging Room _____

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. Use the back for additional comments if needed.

Beginning

Developing

Accomplished

Exemplary

Inspiration	Discovery		Team explored and improved skills or ideas within all three aspects (Robot, Innovation Project, Core Values) of <i>FIRST</i> ® LEGO® League; used creativity & persistence to solve problems		
	N D	minimal examples / all examples from 1 aspect	some examples / examples from 2 aspects	multiple examples / examples from all 3 aspects	multiple examples of exploring new skills & ideas; extensive examples of improving in all 3 aspects
	Team Identity		Fun expression of team identity; team expresses how they enjoy <i>FIRST</i> LEGO League		
	N D	minimal identity; minimal enjoyment	some identity; enjoyment is unclear	clear identity; team clearly expresses their enjoyment	clear identity; team engages others in their enjoyment
	Impact		Team applied knowledge, skills and/or values learned in <i>FIRST</i> LEGO League to improve themselves and their world		
Teamwork	N D	unclear impact of <i>FIRST</i> LEGO League	knowledge, values or skills impacted some team members	knowledge, values or skills impacted all team members	knowledge, values or skills impacted all team members AND team used values or skills to help others
	Effectiveness		Problem solving and decision-making processes help team achieve their goals		
	N D	team goals AND team processes unclear	team goals OR team processes unclear	clear team goals and processes	clear processes enable team to accomplish well defined goals
	Efficiency		Resources used relative to what the team accomplishes (time management, distribution of roles and responsibilities); team is stronger together than its individual members		
	N D	limited time management / role definition	clear time management / role definition	good time management / role definition allows team to avoid wasting effort OR resources	excellent time management / role definition allows team to avoid wasting effort AND resources
Gracious Professionalism®	Kids Do the Work		Appropriate balance between team responsibility and coach guidance		
	N D	limited team responsibility AND excessive coach guidance	limited team responsibility OR excessive coach guidance	Good balance between team responsibility and coach guidance	team independence with appropriate coach guidance
	Inclusion		Consideration and appreciation for the contributions (ideas and skills) and differences of all team members.		
	N D	limited consideration / appreciation for contributions	consideration / appreciation for contributions of most team members	clear consideration / appreciation for contributions of all team members	all team members' contributions actively welcomed & recognized
	Respect		Team members act and speak with deference so others feel valued—especially when solving problems or resolving conflicts		
	N D	not evident with majority of team members	evident with majority of team members	clearly evident with all team members	clearly evident with all team members AND team encourages respect in others
	Coopertition®		Learning is more important than winning; Team learns from, teaches, and cooperates with each other and competing teams. Team competes in the spirit of friendly competition		
	N D	unclear or lack of team members cooperating with each other	team members cooperate with each other	team actively learns from and teaches teammates / celebrates other teams' successes	team actively helps, learns from, or collaborates with other teams AND celebrates other teams' successes

Comments

Great Job...

Think about...



Innovation Project

Team Number _____
Judging Room _____

For each skill area, clearly **mark the box that best describes the team's accomplishments**. Teams should demonstrate everything at the level; if they are missing part, mark the level below. If the team does not demonstrate an area, 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. Use the back for additional comments if needed.

*Required for Award Consideration

		Beginning	Developing	Accomplished	Exemplary
Research	Problem Identification *	Clear definition of the problem being studied			
	N D	unclear; few details	partially clear; details missing	mostly clear; detailed	clear; very detailed
	Sources of Information	Quality and variety of data/evidence and sources cited			
	N D	minimal quality; variety limited	quality OR variety need improvement; did not include professional(s)	sufficient quality and variety; included professional(s)	extensive quality and variety; included multiple professionals
	Problem Analysis	Depth to which the problem was studied and analyzed by the team, including extent of analysis of existing solutions			
Innovative Solution	N D	minimal study; no analysis	minimal study; some analysis	sufficient study and analysis	extensive study and analysis
	Team Solution*	Clear explanation of the proposed solution and description of how it solves the problem			
	N D	difficult to understand	some parts confusing	understandable	easy to understand by all
	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 D	existing solution/application	solution/application contains some original element(s)	original solution/application; potential added value	original solution/application; demonstrated added value
Presentation	Solution Development	Systematic process used to select, develop, evaluate, test, and improve the solution (Implementation could include cost, ease of manufacturing, etc.)			
	N D	process AND explanation need improvement	process OR explanation need improvement	systematic process included evaluation	systematic process included evaluation; implementation considered
	Sharing*	Degree to which the team shared their Project before the tournament with others who might benefit from the team's efforts			
	N D	shared with family / friends	shared outside family / friends (such as classmates)	shared with one audience who may benefit OR one professional	shared with multiple audiences who may benefit OR multiple professionals
	Creativity	Imagination used to develop and deliver the presentation			
	N D	minimally engaging OR unimaginative	engaging OR imaginative	engaging AND imaginative	very engaging AND exceptionally imaginative
	Presentation Effectiveness	Message delivery and organization of the presentation			
	N D	unclear OR disorganized	partially clear; minimal organization	mostly clear; mostly organized	clear AND well organized

Comments

Great Job....

Think about...

For each Robot Design criteria, clearly mark the box that best describes the ability of the team to demonstrate or provide evidence (such as analysis or test data) that their robot and processes meet that level of achievement. If the team does NOT describe a particular criteria at all, 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. Use the back for additional comments if needed.

Beginning		Developing		Accomplished		Exemplary		
Mechanical Design	Durability		Robot designed to maintain structural integrity and have the ability to withstand rigors of competition					
	N	quite fragile; breaks a lot	frequent or significant faults/repairs		rare faults/repairs		sound construction; no repairs	
	D							
	Mechanical Efficiency		Robot designed to be easy to repair, modify, and be handled by technicians					
	N	excessive time to repair/modify	inefficient to repair/modify		appropriate time to repair/modify		streamlined time to repair/modify	
	D							
Programming	Mechanization		Robot mechanisms designed to move or act with appropriate speed, strength and accuracy for intended tasks (propulsion and execution)					
	N	imbalance of speed, strength and accuracy on most tasks	imbalance of speed, strength and accuracy on some tasks		appropriate balance of speed, strength and accuracy on most tasks		appropriate balance of speed, strength and accuracy on every task	
	D							
	Programming Quality		Programs are appropriate for the intended purpose and should achieve consistent results, assuming no mechanical faults					
	N	would not achieve purpose AND would be inconsistent	would not achieve purpose OR would be inconsistent		should achieve purpose repeatedly		should achieve purpose every time	
	D							
Strategy & Innovation	Programming Efficiency		Programs are modular, streamlined, and understandable					
	N	excessive code and difficult to understand	inefficient code and challenge to understand		appropriate code and easy to understand		streamlined code and easy for anyone to understand	
	D							
	Automation/Navigation		Robot designed to move or act as intended using mechanical and/or sensor feedback (with minimal reliance on driver intervention and/or program timing)					
	N	frequent driver intervention to aim AND retrieve robot	frequent driver intervention to aim OR retrieve robot		robot moves/acts as intended repeatedly w/ occasional driver intervention		robot moves/acts as intended every time with no driver intervention	
	D							
Strategy & Innovation	Design Process		Developed and explained improvement cycles where alternatives were considered and narrowed, selections tested, designs improved (applies to programming as well as mechanical design)					
	N	organization AND explanation need improvement	organization OR explanation need improvement		systematic and well-explained		systematic, well-explained and well-documented	
	D							
	Mission Strategy		Clearly defined and described the team's game strategy					
	N	no clear goals AND no clear strategy	no clear goals OR no clear strategy		clear strategy to accomplish well-defined goals		clear strategy to accomplish most/all game missions	
	D							
Strategy & Innovation	Innovation		Team identifies their sources of inspiration and creates new, unique, or unexpected feature(s) (e.g. designs, programs, strategies or applications) that are beneficial in performing the specified tasks					
	N	No original feature(s)	original feature(s) with some added value or potential		original feature(s) with the potential to add significant value		original feature(s) that add significant value	
D								

Comments

Great Job...

Think about...