

Judging Feedback
FLL Team Number: 514

	Research Project	Needs Improvement (1)	Fair (2)	Good (3)	Excellent (4)
Research	Research Problem Clearly Defined	* No problem or does not relate	Vague; poorly relates	Clear; relates	Concise, relates with theme
	Used outside resources	None	Limited	Diverse	Multiple; inc professionals
	Researched the impact of the problem & applied to solution	None	Limited	Clearly done	Examined & applied
	Researched existing solutions & applied that knowledge	None	Limited	Done but not considered	Done & applied
	Alternative theories presented and addressed	Ignored	Dismissed	Considered	
	Demonstrated understanding of technical terms	None	Limited	Yes, but did not explain clearly	
Innovative solution	Solution presented that clearly addresses the problem	* No solution presented	Unclear	Described, but prob not addressed	
	Data presented supports the solution	None	Weak or limited	Adequate	Substantial
	Solution is innovative and applies knowledge of science/technology	Not innov or new	Somewhat	Yes & applies some sci/tech knowledge	Yes & applies sci/tech knowledge
Sharing	Shared the project, research, and solution with others	* Did not share	Shared with parents	With class, sponsors, other teams	With school, community, experts
	Considered how problem/solution impact others & plans produced change	Did not consider	Considered impact, not changes	Considered & recommend changes	Considered & implemented plan
Creative Presentation	Organized presentation; logical progression; clear beginning, middle, and end	Rambles	Weak	Org clear; progression need improvement	
	All or almost all team members participated (TW)	Limited	Less than half	Most	All or almost all
	Comprehensive answers to judges questions	Unable to answer	Weak answers	Adequate answers	Comprehensive
	Collaboration of group is seamless (TW)	Ideas not integrated	Not well-integrated	Project is group effort	
	Carefully chosen visual aids and support material add to presentation	None	Ineffective	Complement	
	Excellent use of creativity	Lacking	Informed pres but limited creativity	Uses creativity	
	Clearly the work of the kids from beginning to end (TW)	Excessive adult involvement	Intervention is apparent	Not obv, but difficult setup/take down	
	No evident errors and well rehearsed	Many errors	Few, need more rehearsing	Few, well-rehearsed	
	Excellent use of time	Too long	Slightly too long	Proper length	
	No technical difficulties	Plagued by them	Several	Very minor	

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Innov. Design	Check box for each of the following statements if they are true:		1 of 4 = Fair	2 of 4 = Good	3/4 of 4 or 1 exceptional = Excellent
		Needs Improvement (1)	Fair (2)	Good (3)	Excellent (4)
Strategy	Communicates complete design process, from initial concept thru build, test, & refinement	Standard Design	Some forethought	Basic understand	
	Innovative strategy combining mission tasks, plotting routes, maximizing points	Ease of task	Often ease of task	Strategic planning	
Locomotion and Navigation	Goes defined distances efficiently	Difficulty	Sometimes	Most of time	
	Adjusts speed, position sensing for optimum speed and accuracy	Too fast or slow	Somewhat	Most of time	
	Turns accurately and consistently	Not acc or consis	Sometimes	Reasonably	
	Moves between two points accurately and consistently	Inconsistent	Sometimes	Reasonably	
	Excellent allowance for variables (battery wear, obstacles). May use sensors	No effort to know	Little to no effort	Allows for variables	
Programming	Programs logically organized	Disorganized	Somewhat	Organized	
	Programs very efficient	Inefficient	Some efficient	Most efficient	
	Programs always work, even for complex tasks	Unpredictable	Somewhat	Mostly	
	Programs work in competition as in practice	Do not do tasks	Some of tasks	Do what's expected	
	Sensors to replicate actions	Used or Not Used (If not used, skip next two lines)			
	Sensors guarantee certain actions in every trial	Inadequate	Occasionally	Used effectively	
	Variables, loops, subroutines, and conditions	Used or Not Used (If not used, skip next line)			
	Variables, loops, subroutines, and conditions are effective	Defined but unused	Not understood	Are needed	
Kids did work (TW)	Children can describe mission and reference the program	Cannot	Part	Most	
	Knowledge of structure and programming shows understanding of underlying design, science, and technology	Little knowledge	Min. understanding	Moderate	
	Building/programming was done by team members	Appears coach did it	Directed by coach	Help from coach	
	Robot assembles easy	Difficulty	Few errors	Slow, no errors	
	Robot base stable and robust	Weak, falls apart	Some stability	Stable, not robust	

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Structural	Attachments	Used or Not Used (If not used, skip next line)			
	Attachments modular; function as expected and easily added/removed. Displays wide range of capabilities. Attachements perform tasks well and repeatable	Weak, falls apart	Not modular	Modular, ok	
	Robot designed by team; design is unique and creative	From book	Some team ideas	Designed by team	
Overall Design	Robot is elegant, complete system	Lacks most	Lacks many	Lacks some	
	All components work well together	Few do	Some do	Most do	
	All components look like they belong together	Few do	Some do	Most do	