

11. FLL Challenge Project Judging Materials

PROJECT RUBRIC

	Needs Improvement	Fair	Good	Excellent
Organization, Clarity, and Relevance	<p>No clearly-defined question</p> <p>Presentation rambles</p> <p>Lack of coherent arguments</p> <p>Lack of goal</p>	<p>Research question is vague</p> <p>Organization elements are present, but weak logical flow</p> <p>Arguments are not clear</p> <p>Goal is not clear</p>	<p>Research question is fairly clear and concise, but could use a little tweaking</p> <p>Presentation outline is clearly evident</p> <p>Main point is clear</p> <p>Goals are articulated</p>	<p>Question is stated directly and clearly explained</p> <p>Organized- clear beginning, middle and end with logical thought progression and elements are relevant and well-integrated</p> <p>Persuasive arguments and examples</p> <p>Goal is clear and well integrated</p>
Completeness, Teamwork	<p>Team member ideas not integrated</p> <p>One team member doing all the work</p> <p>Excessive adult intervention (help from mentor/coach) and/or unable to answer judges' questions</p> <p>No supporting data</p> <p>Elements of assignment missing</p> <p>Did not reach out to science professionals or share ideas with others</p> <p>No clear arguments</p>	<p>Team member ideas not well-integrated</p> <p>Less than ½ team doing work</p> <p>Adult intervention is apparent and/or ½ team able to answer judges' questions</p> <p>Insufficient and/or misinterpreted data</p> <p>Most aspects of assignment carried out</p> <p>Attempted to reach out to science professionals</p> <p>Arguments obscured by jargon</p>	<p>Group effort is seamless</p> <p>¾ team doing the work</p> <p>¾ able to answer judges' questions</p> <p>Evidence is presented</p> <p>All aspects of assignment fully carried out</p> <p>Spoke to science professionals or shared ideas with others</p> <p>Good use of technical terms</p>	<p>Collaboration of group effort is seamless</p> <p>All team members participating</p> <p>This project is clearly the work of the children and all students able to answer judges' questions</p> <p>Evidence is clearly supported</p> <p>Original supporting data carefully documented in all aspects of assignment</p> <p>Spoke to science professionals and shared ideas with others</p> <p>Team provides judges with a full understanding of technical terms</p>
Background, Data & Materials	<p>No outside sources (books, websites, magazines, etc) used</p> <p>No mention of sources</p> <p>No visual aids</p> <p>Supported printed materials not provided</p>	<p>Very limited outside sources—only one source or type of source cited</p> <p>Credit to sources not given</p> <p>Ineffective use of visual aids</p> <p>Supporting printed materials provided to judge(s)</p>	<p>Several good sources</p> <p>Credit is given to others when due</p> <p>Visual aids support research question</p> <p>Supporting printed materials provided to judge(s) and referenced</p>	<p>Wide variety of sources cited</p> <p>Credit given clearly when due</p> <p>Carefully chosen visual aids clearly support research question</p> <p>Relevant supporting printed material given to judge(s) and incorporated during presentation</p>

PROJECT RUBRIC (cont.)

	Needs Improvement	Fair	Good	Excellent
Analysis & Conclusions	Presentation has no link to research question	Link to research question is vague	Link to research question is clear	Presentation thoroughly links to research question
	No relevance to FLL theme	Relevance is unclear	Relevance to FLL theme is implied	Relevance to FLL theme is clearly stated
	Alternate views ignored	Alternate views dismissed	Awareness of differing views and implications considered	Alternative views considered with well-supported position on issues
	Lacking personal reflection	Conclusions are vague and unsupported	Conclusions are inferred	Conclusions are clearly supported by data
	Analysis not relatable to research question	Analysis has little relation to research question	Analysis ties to research question	Analysis clearly relates well to research question
	Lacks stance on findings	Insights and findings not shared	Students take firm, articulate stand	Original, important insights are shared
	Many errors	Few errors	Very few evident errors	Presentation is seamless
Style	Too long/short	Slightly too long/short	Proper length	Team prepared and on-time
	Not rehearsed	Semi-rehearsed	Well-rehearsed	Very well rehearsed—Model of clarity & good speaking
	Plagued with technical difficulties	Several technical difficulties	Very minor tech difficulties	No technical difficulties
	No thought put into presentation format	Presentation seems rushed or unrefined	Well-edited	Very well polished and easy to follow
	Lacks excitement	Information presented with limited flair	Students are having fun with delivery	A joy for the audience—humor, personal touches, and clever presentation style

Teams considered for an award must have all three boxes checked.

Completed Project

1. Identified a problem

2. Provided a solution

3. Shared their project with others

Project Presentation Questions
Ask:
Research Quality
What resources did you use to research your problem and why did you choose these?
Did you use any unusual methods to research your topic? If so what and why?
Did the information you used offer different ideas than what you expected to find? If so, what and how did your team use this information?
Did you speak to anyone who works with nanotechnology? What did you learn from them?
Innovative Solution
What makes your solution different from what is being used to solve this problem now, and why do you think it is better?
How did you arrive at your solution and why?
Were there solutions that you thought of that you decided not to use? Why?
Creative Presentation
One aspect of the project asked you to share your ideas with others. How did your team do this?
Can you tell us about a problem or learned something that surprised you while completing this project?
After working on this project, what is the most important thing that your team learned?
How did you decide on this presentation style that you used and why?
What do you think was the most creative aspect of your presentation or project and why?
Look for:
Documentation of resources used
More information provided than other teams gave
All students participated in the research process
Supporting printed materials provided to judges
The entire team participates in discussion
How the team interacts with each other
Do they all talk, or only a few? If so, why?
Does the team look to the coach often or are they focused on the presentation and judges?