

Rubric for Debate of Materials Selection

Score

Criteria	5 Terrific	2 Satisfactory	1 Still needs work	
Preparation	Apparent team work in preparation of the arguments. Everyone participated in the debate. Notecards were used, or information was memorized.	Some team work, but some students worked more than others. Students had some notes written down.	Little teamwork and agreement was shown. It was apparent that one student did all the work. Students were not well prepared.	<input style="width: 50px; height: 30px;" type="text"/>
Argument 1: Identifying key design issues	Identifies key design issues (constraints and properties). Stated statistics and understanding of the key issues to change the design of the product.	Identifies design issues of the product. Understood the constraints and properties, and explained them, but no facts were used to back them up.	Did not identify key design issues. Just talked about why they wanted to change the product, not actual properties that needed to be changed. No statistics used.	<input style="width: 50px; height: 30px;" type="text"/>
Argument 2: Selection stage	Identifies materials classes that would fit the constraints. Identifies several particular materials, thoroughly explained the iteration process. Backs up final decision.	Identifies several materials choices and explains the final decision, but does not go into the iteration process.	Only identifies final selection decision and does not explain the reasons why other materials worked well or not.	<input style="width: 50px; height: 30px;" type="text"/>
Rebuttal	Well stated argument comparing why their selection choice was better than their opponents, while discussing the merits of the other decision.	Well stated arguments about why their choice was a good one, but lacked in discussing the flaws of the other teams selection.	Could not really back up their selection, or refute the opponents' selection.	<input style="width: 50px; height: 30px;" type="text"/>
Construction of arguments.				
Accuracy	All statements were accurate and backed up.	All statements were accurate, and some information was backed up with statistics.	Not all of the information was accurate. No information was backed up.	<input style="width: 50px; height: 30px;" type="text"/>
Delivery	Great eye contact and students spoke in loud voices.	Either eye contact or voice was not as good as they could have been.	Students had poor eye contact and spoke softly down at the ground.	<input style="width: 50px; height: 30px;" type="text"/>
Stayed within time constraints	All arguments were within the time allotments for the debate. Talking speed was appropriate.	Most of the arguments were within the time constraints. Talking speed varied, but was acceptable.	Arguments were often over time, and talking was rushed.	<input style="width: 50px; height: 30px;" type="text"/>

Total =