

Junk Box Wars Project Rubric

	Excellent	Good	Satisfactory	Needs Improvement
Planning	Students demonstrated an understanding of event rules and developed strategies for a successful project.	Students demonstrated a basic understanding of event rules and the developed some strategies for a successful project.	Students required assistance to understand event rules and develop strategies for a successful project.	Students did not demonstrate an understanding of event rules and failed to develop strategies for a successful project.
Materials	Students selected appropriate materials and used creativity to modify them to work better.	Students selected appropriate materials and an attempt was made to modify them to work better.	Students selected inappropriate materials for the project or failed to make modifications.	Students selected inappropriate materials and failed to make modifications.
Function	Device functioned extremely well based on the testing conditions.	Device functioned well based on the testing conditions.	Device met design requirements, but did not perform well under testing conditions.	Device had fatal flaws that caused it to function poorly or did not allow testing.
Testing	Students utilized well developed strategies and effective design elements to gain the best score possible.	Students utilized some strategies or design elements to earn a good score.	Students utilized a few strategies or design elements, but did not fully develop them to earn a good score.	Students failed to utilize strategies or design elements to help them earn a good score.
Analysis	Students were able to identify strengths and weaknesses of the device and recommend modifications.	Students were able to identify some strengths and weaknesses of the device and recommend some modifications.	Students were able to identify a limited amount of strengths and weaknesses of the device, but recommended modifications were limited or flawed.	Students failed to identify strengths and weaknesses of the device and recommend modifications.
Applications	Students were able to describe related science concepts and real-world applications.	Students were able to provide a basic description of related science concepts and real-world applications.	Students were able to identify related science concepts and list real-world applications.	Students failed to identify related science concepts or list real-world applications.
Teamwork	Team focused on the task and everyone was allowed to contribute to final product.	Team focused on the task and allowed everyone to contribute most of the time.	Team had to be reminded to stay focused on the task and involve all group members.	Team did not stay focused on the task and limited the involvement of some group members.