



ENGINEERING DESIGN CHALLENGE SCORING GUIDE 2016



DESIGN TEAM NUMBER: _____ Middle School _____ High School _____

Category	0 Points	1 Point	2 Points	3 Points	Total
Design Constraints	___ There is no evidence design constraints were used.	___ At least two of the design constraints were used.	___ At least five of the design constraints were used.	___ 1. Possible and final solutions are directly related to the engineering challenge. ___ 2. No alterations to the site plan or structural size were used. ___ 3. All materials proposed in solutions are readily available.	
Engineering Notebook	___ No Engineering Notebook provided.	___ 1. Engineering Notebook shows little evidence of following a design process ___ 2. Engineering Notebook has little organization to it. ___ 3. Engineering Notebook notes and drawings are not neat and are missing detail.	___ 1. Engineering Notebook shows some evidence of following a design process. ___ 2. Engineering Notebook has some organization to it. ___ 3. Engineering Notebook notes and drawings are somewhat neat, but missing some detail.	___ 1. Engineering Notebook shows strong evidence of following a design process. ___ 2. Engineering Notebook is well organized. ___ 3. Engineering Notebook notes and drawings are neat and complete.	
Research	___ There is no evidence of research,	___ Evidence of research is provided, but little documentation is in the Engineering Notebook and/or in additional documentation.	___ Evidence of research is provided, but clearly not in depth in the Engineering Notebook and/or in additional documentation.	___ Evidence of in-depth research is clearly indicated and documented in the Engineering Notebook and/or in additional documentation.	
Possible Solutions	___ No possible solutions provided.	___ Only one possible solution provided.	___ At least two possible solutions have been provided, but they are not developed.	___ At least two developed possible solutions have been provided.	
Final Solution	___ No final solution demonstrated.	___ 1. The final solution is presented, but more development is needed, lacking details. ___ 2. The final solution lacks some practice aspects.	___ 1. The final solution is developed with details. ___ 2. The final solution represents a possible workable and/or practical solution to the problem with minor changes.	___ 1. The final solution is well developed with details. ___ 2. The final solution represents a workable and/or practical solution to the problem.	
Presentation	___ No presentation materials were used to present final solution.	___ 1. The final solution is presented, but more development is needed, lacking details. ___ 2. Presenter(s) did not speak clearly and/or lacked confidence and understanding of their solution. ___ 3. Graphics needed clarity and lacked completeness.	___ 1. Presentation was organized, but had some missing important points. ___ 2. Presenter(s) spoke clearly but lacked confidence or understanding of their solution. ___ 3. Graphics needed some clarity of the design solution.	___ 1. Presentation was well organized. ___ 2. Presenter(s) spoke clearly with confidence and understanding of their solution. ___ 3. Graphics clearly represented the design solution.	

Total Score _____/18