

CBWCD Water Wise Challenge Judges Rubric

Engineering Projects

Project Title: _____ Grade Category: _____ Judge Initials: _____

	UNSATISFACTORY (1 POINT)	COMPETENT (2 POINTS)	OUTSTANDING (3 POINTS)	Score
Feasible and Capable of Conserving Water	Minimal. The design would not be feasible to implement in the real world or capable of conserving water. The upfront environmental/ social/economic costs would be greater than the benefit to water conservation.	Somewhat. The design may be feasible to implement in the real world with major adjustments. Theoretically, it would be capable of conserving water, but there are obvious ways to increase the efficiency.	Definitely. The design would be feasible to implement in the real world with minor to no adjustments. It is theoretically capable of conserving water efficiently as is.	
Impact	Minimal. If the design was implemented it would have minimal impacts on water conservation by reducing use, protecting sources, etc.	Some. If the project was implemented it would have some impacts on water conservation, but would not significantly help by reducing use, protecting sources, etc.	Significant. If the design was implemented it would have significant impacts on water conservation by reducing use, protecting sources, etc.	
Background Research on Methods and Problem	Minimal to no relevant research. Lacks supporting evidence and reasoning as to why the problem being addressed is important or how it could conserve water.	Not quite enough relevant research. Incorporates 1-2 background sources. Does not provide significant evidence and reasoning as to why the problem being addressed is important or how it could conserve water.	Sufficient amount or relevant research. Incorporates more than 2 background sources. Provide significant evidence and reasoning as to why the problem being addressed is important or how it could conserve water.	
Authenticity	The majority of the project was completed with an unfair amount of adult help and/or by following instructions or ideas of others, including online sources.	The majority of the project reflects student led work. The project and display are work of the student(s) with some noticeable adult help or copying from the internet.	The project is entirely student led. The design and display are their own ideas and the work of the student(s) reflects an exceptional degree of student creativity.	
Oral Communication	Participant cannot describe their project, process or the problem being addressed. Or, demonstrates no interest in the project.	Participant can describe their project, process or the problem being addressed with some difficulty. Or, demonstrates little interest in the project.	Participant can clearly and confidently describe their project, process or the problem being addressed. Demonstrates appropriate interest in the project.	
Display and Written Communication	Disorganized delivery of content. Display poorly organized with >2 spelling/grammar errors. Shows no supporting evidence of the construction and testing of the design.	Organized delivery of content through display. <2 spelling/grammar errors. Has some supporting evidence of the construction and testing of the design such as the actual model/prototype, pictures, planning notes, etc.	Articulate, well-organized delivery of content through display. Has significant supporting evidence of the construction and testing of the design such as the actual model/prototype, pictures, planning notes, etc.	
Prototype Tested and Refined	No evidence or discussion of testing or redesigning based on feedback. No discussion of evaluation criteria.	Some evidence and discussion of design testing/refinement and the development of evaluation criteria to include feedback and improvements in final solution.	Demonstrates extensive evidence of refining and improving solution based on testing and feedback to meet evaluation criteria.	
Total				