

Bridge Final Project Rubric

Student Names: _____

Worth a certain percentage of final grade	4	3	2	1
Modification/Testing	Clear evidence of testing, troubleshooting, and refinements based on data or scientific principles	Clear evidence of testing troubleshooting, and refinements	Some evidence of testing, troubleshooting, and refinements,	Little evidence of testing, troubleshooting, and refinements
Function	Structure functions extraordinarily well, holding up under atypical stresses	Structure functions well, holding up under typical stress.	Structure functions pretty well, but deteriorates under typical stress	Fatal flaws in function with complete failure under typical stresses.
Data Collection	Data taken several times in a careful, reliable manner	Data taken twice in a careful, reliable manner	Data taken once in a careful, reliable manner	Data not taken carefully OR not taken in a reliable manner
Plan	Plan is neat with clear measurements and labeling for all components.	Plan is neat with clear measurements and labeling for most components.	Plan provides clear measurements and labeling for most components.	Plan does not show measurements clearly or is otherwise inadequately labeled.
Construction-Care Taken/Materials	Great care taken in construction process so that the structure is attractive and follows plans accurately. Appropriate materials were selected and creatively modified in	Construction was careful and accurate for the most part, but 1-2 details could have been refined for a more attractive product. Appropriate materials were selected and creatively	Construction accurately followed the plans, but 3-4 details could have been refined for a more attractive product. Appropriate materials were selected.	Construction appears careless or haphazard. Many details need refinement for a strong or attractive product. Inappropriate materials were selected and contributed to a product that performed poorly.

	ways that made them even better.	modified in ways that made them even better.		
Information Gathering	Accurate information taken from several sources in a systematic manner.	Accurate information taken from a couple of sources in a systematic manner.	Accurate information taken from a couple of sources but not systematically.	Information taken from only one source and/or information not accurate.
Diagrams and Sketches	Diagrams and/or sketches are clear and greatly add to the reader's understanding of the procedures.	Diagrams and/or sketches are clear and easy to understand.	Diagrams and/or sketches are somewhat difficult to understand.	Diagrams and/or sketches are difficult to understand or are not used.
Neatness and Organization	The work is presented in a clear, organized fashion that is easy to read.	The work is presented in a neat and organized fashion that is easy to read.	The work is presented in an organized fashion, but may be hard to read at times.	The work appears sloppy and unorganized. It is hard to know what information goes together.
Working with Others	Student was an engaged partner, listening to suggestions of others, and working cooperatively throughout lesson.	Student was an engaged partner but had trouble listening to others and/or working cooperatively.	Student cooperated with others, but needed prompting to stay on task.	Student did not work effectively with others.