

Technological Design Final Project Rubric



TOPIC	4	3	2	1
Identifies the Problem	Clearly states and defines the engineering objective	States and defines the engineering objective	States the objective in a brief phrase	Objective is present but is not clearly defined
Possible Solutions	Evaluates at least four possibilities	Evaluates three possibilities	Evaluates two possibilities	Uses only one possible design in the initial evaluation
Design	Includes more than two design sketches	Includes two design sketches	Includes one design sketch	No design sketches
Constructs prototype	Tests at least two possibilities; prototype shows deliberate construction process	Tests one possibility; prototype shows deliberate construction process	Tests one possibility; some evidence of deliberate construction process	Tests one possibility but uses a random construction process
Testing	Clearly shows understanding of design flaws; focuses on a specific design and improves it	Shows an understanding of design flaws; focuses on a specific design and improves it	Shows some understanding of design flaws but struggles with improving it	Shows minimal awareness of design flaws and does not improve design
Evaluation Report	Clearly recognizes and communicates challenges/limitations of the project; clear evidence of design improvement due to scientific understanding	Recognizes and communicates challenges/limitations of the project; some evidence of design improvement and scientific understanding	Some recognition and communication of challenges/limitations of the project; solutions give some indication of scientific understanding	Recognizes challenges/limitations of project but does not clearly state them or give evidence of solutions; understanding is more of a result of trial and error than thinking through the solution
Redesign	Clear evidence of change in initial design to ensure accomplishment of the objective	Evidence of change in initial design to ensure accomplishment of the objective	Recognition of the need to redesign; some ideas presented on how this could be done	Recognition of the need to redesign but no clear ideas provided about how this could be done