

The virtual design challenge is an exciting way to extend your Project Lead The Way classroom learning. Once you complete the challenge and submit your project, industry judges will evaluate your work! They will assess your entry form and video/photos on the following components:

1. Design Notes: Detailed notes of your design process and thinking should be captured for the judges on the entry form. Notes must include clear and detailed descriptions of the problem, constraints, and explanations of modifications made during testing.
2. Design Sketches: You will provide sketches of your designs with annotated descriptions of dimensions and relevant information that shows your thinking of your proposed design.
3. Prototype: The final product that shows your proposed solution to the design challenge. The prototype should be filmed and photographed to show its use and function.

Component	5 Points	4 Points	3 Points	2 Points	1-0 Points
Design Notes	Design notes include all required information and a <u>clear and detailed</u> description of problem and constraints as well as explanations for modifications and reflection.	Design notes include most required information. Descriptions of problem and constraints are clear and contain a clear explanations of modifications and reflection.	Some aspects of the design notes are missing and/or are not clear.	Design notes do not reflect the work done on this project.	There is little or no evidence of design notes.
Design Sketches	Sketches are <u>complete</u> and <u>annotated</u> to show all important dimensions.	Sketches are not complete and are missing important information, such as measurements.	Sketches are missing more than half of the identification of the components, and are missing multiple dimensions.	Sketches are lacking annotations and dimensions.	There is little or no evidence of sketches in the design notes.
Prototype	The final product exactly matches the final design and parts are scaled properly. The final product accomplishes the challenge.	A slight difference exists between the final product and the final design, and one piece is not to scale. The final product accomplishes the challenge.	A significant difference exists between the final product and the final design, but an attempt was made to follow the design, and at least two pieces are not to scale.	A significant difference exists between the final product and the final design. No apparent attempt was made to follow the design, and more no attempt was made to put to scale.	The prototype is incomplete and does not follow proposed design.