

Instrument Design Challenge Rubric:

Criteria	Needs Improvement (0)	Apprentice (1)	Proficient (2)	Mastery (3)
<i>Meeting the requirements for the instrument</i>	Student demonstrates none of the requirements for the instrument.	Student demonstrates several of the requirements for the project, but is missing multiple key components (Instrument does not demonstrate one of the requirements).	Student demonstrates the key requirements for the project, but is missing a few components (Difficult to hear volume difference or pitch).	Student demonstrates all components in the requirements (Pitch and Volume).
<i>Product design: blueprint, measurements, and brainstorming</i>	Student does not select or create a design for their product. Student has done little to no brainstorming on the product.	Student has selected an idea for the product and has included their brainstorming ideas. The design is lacking measurements and a blueprint.	Student has selected design and has drawn a blueprint. Brainstorming ideas are included. The student is missing a material list for the blueprint.	Student has selected design and has formed it into a well thought out blueprint with measurements, materials, and previous ideas from brainstorming.
<i>Meeting the requirements for the PowerPoint</i>	Student has not submitted a PowerPoint for the presentation.	The PowerPoint is unorganized and missing many key components from the criteria (Design, Product, and Material List).	The PowerPoint is well organized and contains most of the key components in the criteria. One of the following is missing: Design, Product, or Material List.	The PowerPoint is well organized and contains all of the requirements for the criteria for the project.
<i>Presentation of design (Playing the Instrument)</i>	Student does not have a design to test and makes no effort to do	Student has a design to test, but does not follow the	Student tests their design using the procedure laid	Student test their design using the procedure laid out in the

	so. (Partial credit for being able to describe the sound or play a video of instrument).	requirements and the procedure for testing. (Pitch and Volume).	out in the requirements, but makes several performance errors in the process.	requirements successfully for their presentation.
<i>Communication of the design</i>	Student does not present their product and does not have materials to do so. There is no attempt at reflection or future plans to improve.	Student presents their project in an unorganized manner which does not meet the requirements given in the project. Student does not speak clearly and does not seem to understand their own project.	Student presents their project in an organized manner with the key elements from the project. Several mistakes are made in following the procedure and no reflection is given.	Student presents their project in an organized manner with the key elements from the project with little to no errors in their presentation. The student reflects on the project and gives possible improvements for the future.