

ARTS in STEM Rubric for assessing the Engineering Design Challenge of Creating a Musical Instrument from household items.

Criteria	0	1	2
Design requirement: Household Materials Used	No materials were from household items but were purchased or pre-made.	Some of the materials were from household materials, and others were purchased or pre-made.	All the materials were from household materials.
Design requirement: Volumes	The musical instrument did not make a sound, and therefore had no volume.	The instrument demonstrated either a soft or a loud sound.	The instrument demonstrated both a loud and a soft sound.
Design Requirement: Pitches	The instrument did not demonstrate any sound, and therefore had no pitch.	The instrument demonstrated either a low or a high pitch.	The instrument demonstrated both a low and a high pitch.
Presentation Requirements	Neither the slide nor the Instrument were presented.	Either the instrument was demonstrated or the slide was presented, but not both.	Both the instrument and the slide were presented and demonstrated.
Oral Presentation	Presenter was unclear on the design process used and how the instrument was developed.	Presenter was mostly clear on the design process used and how the instrument was developed.	Presenter was completely clear and articulate on the design process used and how the instrument was developed.
Creativity/Innovation (BONUS POINTS)	Instrument is a "copy-cat" of a known musical instrument.	Instrument was influenced by known musical instrument but with some innovative parts, sounds, or style.	Instrument is not influenced by known musical instruments and is unique in both sound and style.

Total Score: _____ + Bonus Points: _____ = _____