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The Arts in STEM
Dr. Arnone
Scavenger Hunt
Arts Standard Lesson Plan Proposal

The engineering design process really reflects many aspects of the creative process. For many of my EDP activities that I do with my students we end with a “presentation” program where students are asked to share their creations by describing the features and materials that they chose to include. In the past the presentations were short and not very exciting. I’ve tried doing a “Shark Tank” activity, where students present their design creations to a group of “investors” which was a little more exciting. While reading through the National Core Arts Standards I was drawn to the anchor standards that focused on the presentation aspects of the arts. Specifically anchor standard #5, “Develop and refine artistic techniques and work for presentation,” as well as anchor standard #6, “Convey meaning through presentation of artistic work.” When I looked at the individualized goals by grade, the “presenting” standards emphasized “preparing artist statements” and “exhibition narratives,” for presenting art works. I would like to come up with a more creative way for students to present their designs after an Engineering Design Challenge. I was thinking of trying to incorporate multiple forms of art, such as a song or rap, dramatic commercial, or ask students to design a brochure or poster advertisement to promote their design new creation. I have several engineering design challenges that this kind of art activity could work for. One of my favorite EDP lessons involves rocket science. Using a water rocket pumping system, I challenge my students to design an RLS (rocket launching system) to launch a water rocket. For this project, I try to emphasize functionality, as well as design. I always felt this lesson needed more closure, where students have an opportunity to really showcase their creations. I would like to create a closing presentation lesson, that incorporates the arts as a means to display their creations.