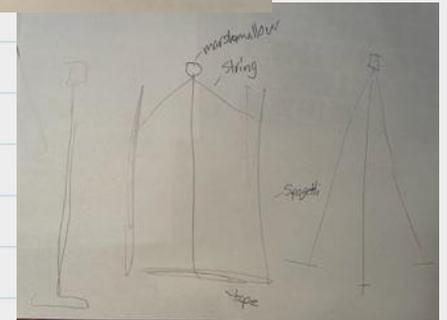
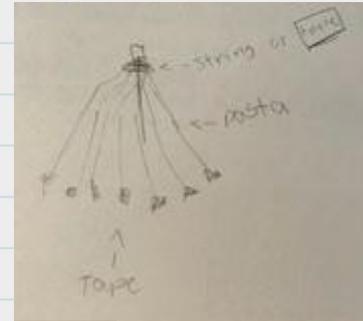
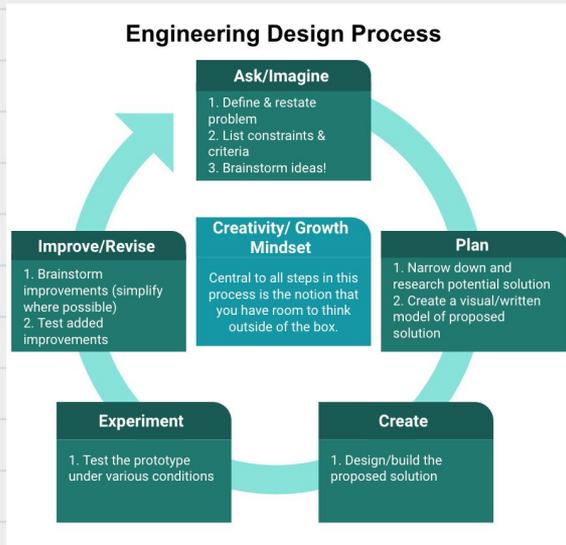
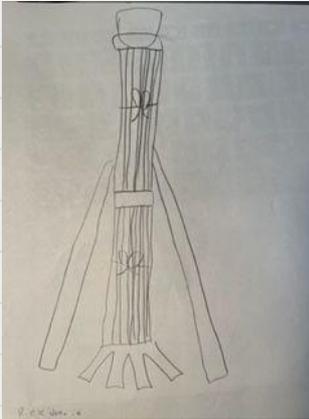
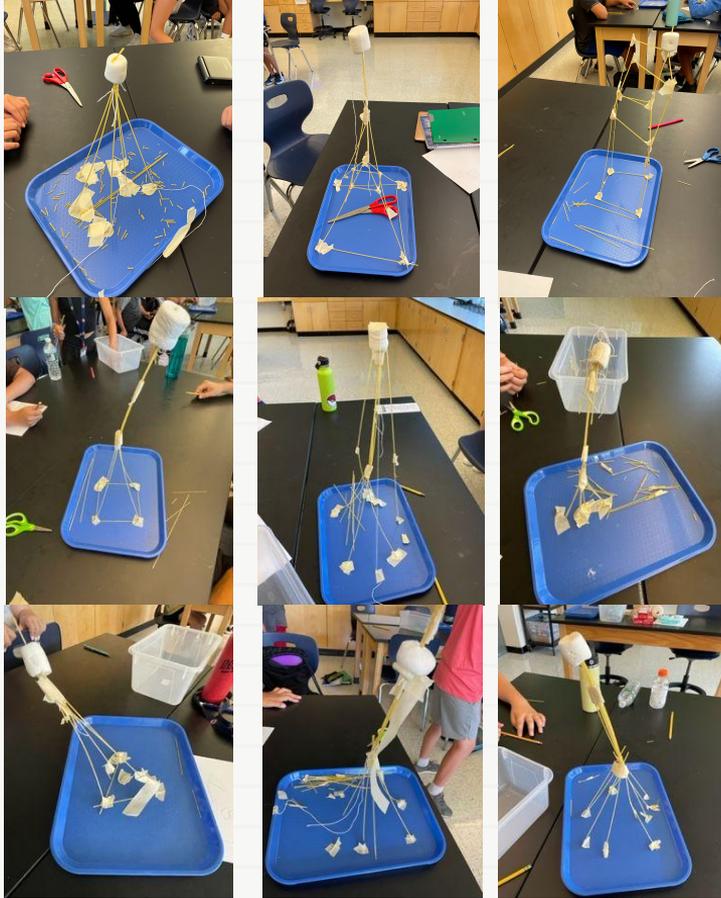


Spaghetti STEM Tower Challenge

The goal of this STEM challenge is for students to build the tallest freestanding structure that can support a marshmallow for a minimum of 15 seconds. The materials are 20 sticks of dry spaghetti, one yard of tape, and one yard of string.





WarmS:

- Students not only got to learn about tower building concepts, but in my opinion, more importantly, skills of creativity and collaboration.
- Students also got to learn the NASA Engineering Design process through doing (a hands-on approach).

CoolS:

- Students might have benefitted from some instruction on scientific modeling prior to being asked to sketch their designs.
- More time could have been allotted for redesign/rebuild.

Future Directions:

- Allow more time for scientific modeling instruction, and a student reflection component (engineering design journal).