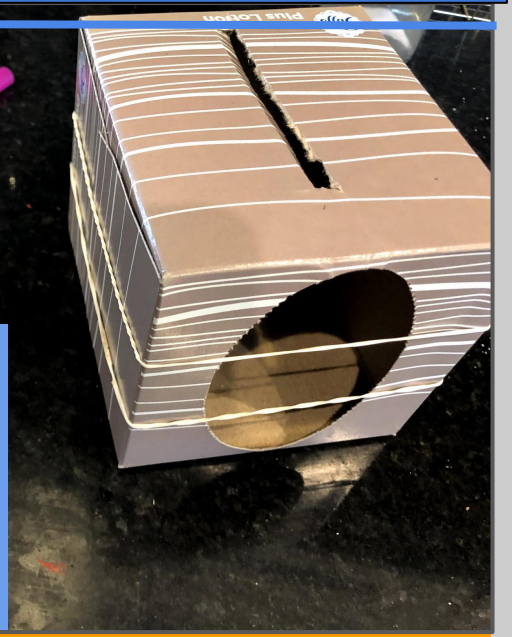
Introducing the Flute Guitar!



<u>Materials:</u>
Tissue box
Straws
Rubberbands
tape

Instrument Engineering Design Challenge

Chaya Shinensky

Using the Engineering design Process to IMPROVE

My 1st model of the flute guitar had only small straws that were the same length which didn’t give very much variety in pitch.I also had two rubber bands with the same thickness.

For my IMPROVED model I added straws that were both wider and narrower and I cut them to different lengths. I also added a thinner rubberband to get more variety in pitch.

How does the Flute Guitar work?

The flute guitar is designed to be a combination of a wind and string instrument. The varying size and lengths of the straws help create a variety in pitch. The straws give off a softer sound, in contrast to the louder vibrations caused from strumming the rubber bands. The flute and guitar features are meant to be played simultaneously, creating a harmony of sounds.