



Challenger's Morning Science Segment:

October 21, 2015

Topic: Friction and Vibration

Build: Laughing Jack-O-Lantern

Credit: <http://www.msichicago.org/online-science/activities/activity-detail/activities/sound-like-a-turkey/>

Materials Needed:

White or light colored paper cup / paper clip / string / cup of water / sharpened pencil / scissors / crayons or colored markers

Build a Laughing Jack-O-Lantern- With crayons or colored markers, decorate a plain paper cup to look like a Jack-o-lantern. Next, poke a small hole in the bottom of the paper cup using a sharpened pencil. Cut a piece of string 12 inches or longer and feed the string thru the small hole in the bottom of the cup. Tie the string to the paper clip so that the paper clip will rest against the bottom of the cup on the inside. Dip the long string hanging below the cup into water. Press the string between your thumb and fingers and slide them down the string. Listen to the range of laughing sounds that you can create!

The science [credit: <http://www.msichicago.org/online-science/activities/activity-detail/activities/sound-like-a-turkey/>] "The water helps your fingers slide down the string, but there is still some friction. The friction makes your fingers catch on and pull at the string, causing it to vibrate. The vibrations travel up the string to the cup, and the cup amplifies the vibrations, producing the sound you hear."

This activity ties into the Challenger Learning Center of Maine: Challenger Vacation camps cover all kinds of fun science topics such as the science of sound. Our December Vacation camp registration is open now for Dec 28-31, 2015, grades K-5. Apply to reserve your spot today! FMI- www.astronaut.org