



## Science of Sound Video Conference

### Experiment materials to have ready during the conference

The unique aspects of video conferencing introduce new challenges when presenting science workshops and shows. Interactivity is paramount and as such we ask that your class have some materials ready for experiments during the video conference. Whilst we may not use all of the materials listed, it will provide an opportunity for your students to do experiments rather than simply just watch a presentation.

Due to the need to keep the conference running at a reasonable pace, we suggest only a couple of students demonstrate each experiment to the rest of the class. If we don't use some of the materials, just run those experiments after the conference!

#### Experiment 1: Coat hanger Gong

You will need per group of students:

- 1 coat hanger and two pieces of string (30cm each)

1. Tie the strings to the corners of the coat hanger.
2. Hold the string in your hands so the coat hanger dangles downward.
3. Gently knock the coat hanger on a hard surface - is the sound loud or soft?
4. Wrap your fingers around each string and place your fingers in your ears.
5. Repeat the experiment with your fingers in your ear. Does the sound get louder or softer? Why?



**Coat hanger Gong**

*Image: Fizzics Education*

## Experiment 2: Balloon and Nut Hummer

You will need per student:

- 1 Balloon and 1 x 8mm metric nut

1. Insert the nut inside the balloon.
2. Blow up the balloon and tie it.
3. Hold the balloon as per the photo and gently swirl the balloon around in a circle.



**Balloon & Nut Hummer**

*Image: Fizzics Education*

## Experiment 4: Straw Flute

You will need per student:

- 1 x straw and 1 x scissors

1. Cut the end of the straw into a point as per the picture shown above.
2. Insert the pointed end of the straw into your mouth and blow.
3. If the pointed end is in the correct spot in your mouth you will get the ends to vibrate.



**Straw Flute**

*Image: Fizzics Education*

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