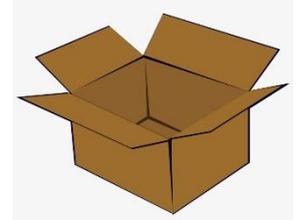




Science Activity

Get Musical

Time to prepare: 5 -10 minutes



□ Please stay safe and ask a grown up to supervise you

Resources/ things you need

- 5 or more empty glass jars or glasses.
- Water
- Food colouring optional
- Wooden stick such as a pencil

What to do

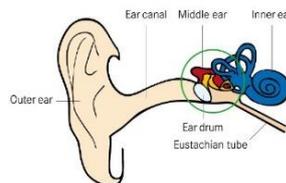
Try this experiment to make some merry music and explore pitch.

1. First, line the glasses up next to each other and fill them with different amounts of water. The first jar or glass should have the least amount of water while the last should be almost full. Fill the ones between up a little more than the one before it each time. Try doing this in equal increments.
2. Add food colouring to the jars or glasses to make it look pretty. Optional.
3. Then, gently hit the glass with the least amount of water in with the wooden stick/pencil and observe the sound. **Is it high pitched or low pitched?**
4. Next, gently hit the glass with the most amount of water with the wooden stick/pencil and observe the sound. **Is it high pitched or low pitched? Which makes the highest pitched sound?**
5. Finally, gently hit the other glasses with the wooden stick/pencil. **Can you make a pattern? Can you make a tune?**

Background and the link to learning

Each of the glasses when hit with the wooden stick/pencil. The glass with the most water in will have the lowest tone while the glass with the least water in will have the highest tone. When the glass is hit by the wooden stick/pencil small vibrations are made. These small vibrations create sound waves that travel through the water. More water means slower vibrations and a deeper tone whilst less water means faster vibrations and a higher tone.

Pictures



Link to other similar activities - Please see: [Make a telephone](#) and [Seeing sound](#).

