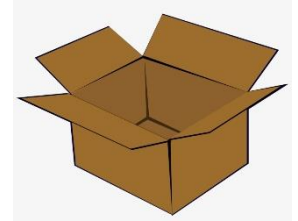




## Science Activity

### Make a Telephone

Time to prepare: 5 minutes



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

#### Resources/ things you need

- Two paperclips
- Two paper cups
- About 3 meters of string.
- Pin

#### What to do

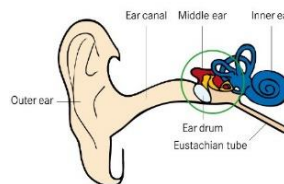
1. First, carefully make a hole in the centre of the base of both cups using the pin.
2. Second, tie one paperclip to one end of the string.
3. Next, pull the other end of the string through the hole in one of the paper cups. The paperclip should be inside the paper cup.
4. Then, insert the free end of the string into the hole in the bottom of the paper cup. Insert it from the outside of the cup.
5. After that, pull enough string through the hole to enable you to tie the second paperclip to the end of the string.
6. Finally, pull the cups apart so that in each cup the paperclip rests flat on the floor of the cup and the string is taut.

**With a friend take one cup each and walk away from each other until the string is taut. Use your telephone. Does it work? Do you know why?**

#### Background and the link to learning

Sound is made up of vibrations that move through the air. The vibrations are called sound waves. When something makes a sound, vibrations spread out from it in all directions. When you speak into the cup the vibration from your voice travels along the string to the other cup so you can be heard a distance away. **Did you know the bones in your ear vibrate to hear sound?**

#### Pictures



[Link to other similar activities](#) - Please see: **Get Musical and Seeing sound.**

