

Make a Telephone with Paper Cups and String



WHAT YOU NEED:

- Two paper cups
- A pencil
- String (about four feet)
- A friend to “call”

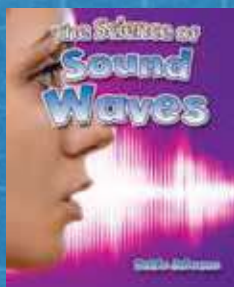
HOW TO:

1. Make a hole at the center of the base of the cups with a pencil. The hole should be big enough to feed the string through the hole.
2. Pull the string through the center of the cup and tie a knot to fix it in place. Then tape it to make sure the string sits firmly at the inside of the base.
3. Pull the loose end of the string and do the same with the other cup, making sure the bases of the cups are facing each other. Now you should have two paper cups attached together with a long string.
4. Move away from your friend and make sure the string is tight and stretched between the two of you.
5. Talk into the cup and your friend will be able to hear what you just said through your cup.

Related Books:



*The Invention Hunters
Discover How Sound Works*
by Korwin Briggs



*The Science of Sound
Waves* by Robin Johnson

WHAT'S HAPPENING?

The bottom of each cup serves as both a microphone and speaker, picking up sound vibrations on one and reproducing the sound on the other. The sound of your voice vibrates the cup and this causes the string to vibrate. Our ears collect the sound vibrations, send them to our brain and then we hear the sound.