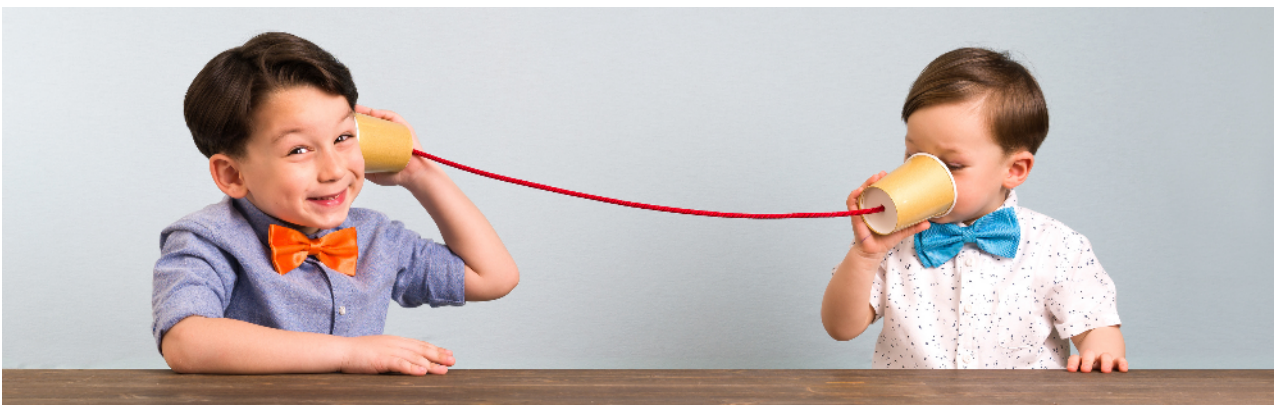


make a telephone

To make a simple telephone, you will need:

- **2 paper cups**
- **string or wool**
- **scissors**
- **two people**

1. Carefully make a small hole in the base of each cup.
2. Tie a small knot in one end of the string.
3. Thread the string through one of the cups so that the knot sits inside the bottom of the cup.
4. Thread the string through the second cup, and tie a knot that again sits in the bottom of this cup.
5. One person hold a cup to their ear, whilst a second person takes the other cup and walks away until the string is tight.
6. Once the string is tight, speak into the cup softly, and the person at the other end will be able to hear you speak.



This works because the vibrations of the speaker's voice are carried along the taut string, and vibrate the air in the cup at the other end, which the listener hears. This is similar to the way that the first telephones worked, where by the vibrations of a voice were transferred into an electrical pulse, which traveled along the wire, to then be transferred back into sound at the other end.