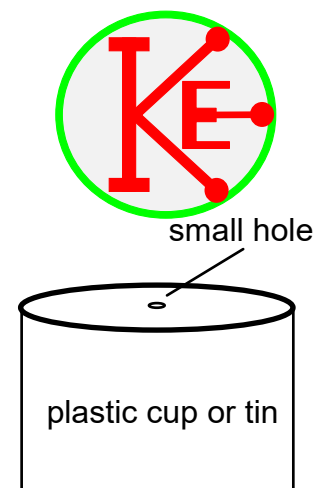


Tin Can Telephone

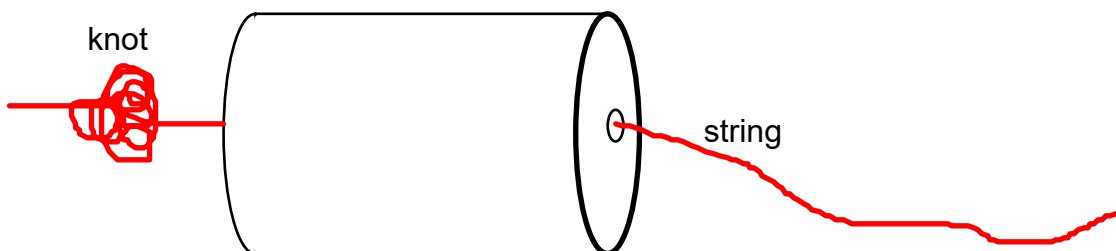
You will need:-

Two clean and empty tins, or plastic drinking cups,
a length of thin string,
thin screwdriver for plastic cups,
a small nail, and hammer for tins,
or use a 3mm drill for either
(match stick)



Construction

- 1). Ensure that the tins/cups are clean and that there are no sharp edges.
- 2). To make the hole in a plastic cup, heat the blade end of a thin screwdriver in a gas flame and then push the heated end through the centre of the base of the plastic cup. To make the hole in a tin, place the tin on a firm surface with the base upwards. hold a sharp, thin nail in the centre of the base of the tin and gently tap with a hammer until the hole is formed.
- 3). Thread one of the ends of the string through the hole in the bottom of the cup/tin and tie several knots in the string to stop it from slipping back through the hole. If the hole is very large, the string can be tied around half of a match stick. Do the same for the other tin/cup.



- 4). With a partner, each hold a tin and walk apart until the string becomes tight. One person holds their tin to their ear and the other speaks into their tin, while keeping the string tight. The person with the tin to their ear should be able to hear, through the tin, what the other person is saying.



How it works.

When the person talks into the cup/tin, the sound makes the bottom of the cup/tin vibrate. These vibrations pass along the string to the other cup/tin, where they make the bottom vibrate. These vibrations make the air in the tin vibrate, enabling the person listening to hear what the other person said.