



TIN CAN TELEPHONE



A tin can telephone is a great fun item to make and it will also show you and a friend how sound travels.

What you need:

- 1) Two steel cans which have been cleaned and dried (Take special care to make sure there are no sharp edges)
- 2) 3-4 metres of string or nylon.
- 3) An adult to help you out.
- 4) Scissors

Instructions:

- To make a tin can telephone you will need to pierce a small hole in the bottom of each can. Make sure the hole is just big enough to thread the string through. Get an adult to help you make the hole.
- Thread through your piece of string from the bottom of the back side of the can. Tie a few knots to make sure the string will not slip through the can if you pull on it.

- Do the same with the can and the other end of the string.
- Then have each person hold a can. Make sure the string is tight.
- Put the can up to your mouth and talk through the can.
- Your friend can put the other can up to her ear. When your friend talks you will hear it through your can.

How it works:

When someone makes a sound or speaks it causes the air to move up and down, back and forth rapidly. Our ears are the tool that collect the sound and then send the sound waves to our brain. This is what causes us to hear.

When you talk into the can and have the string tightened, the sound travels from one can across the string to the other can. The person at the opposite end of the can will hear the message when the ear hears it and it travels to the brain.