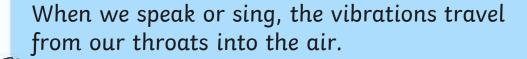


Sound Is Energy

Vibrations make sound. Sound is energy.

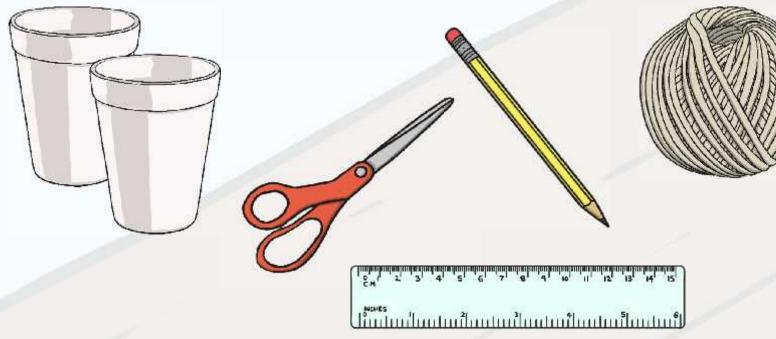


People who are near us hear by turning the vibrations into sounds that their brains understand – like someone's words or a horn beeping.

What's interesting is, you can't see sound coming, you can sometimes feel it, but how do we catch it?

Let's find out...



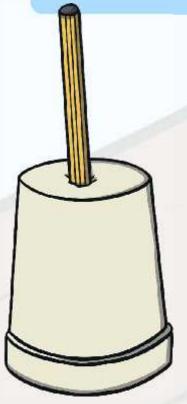


- 2 paper/plastic cups
- A sharp pencil
- String

- A ruler
- Scissors

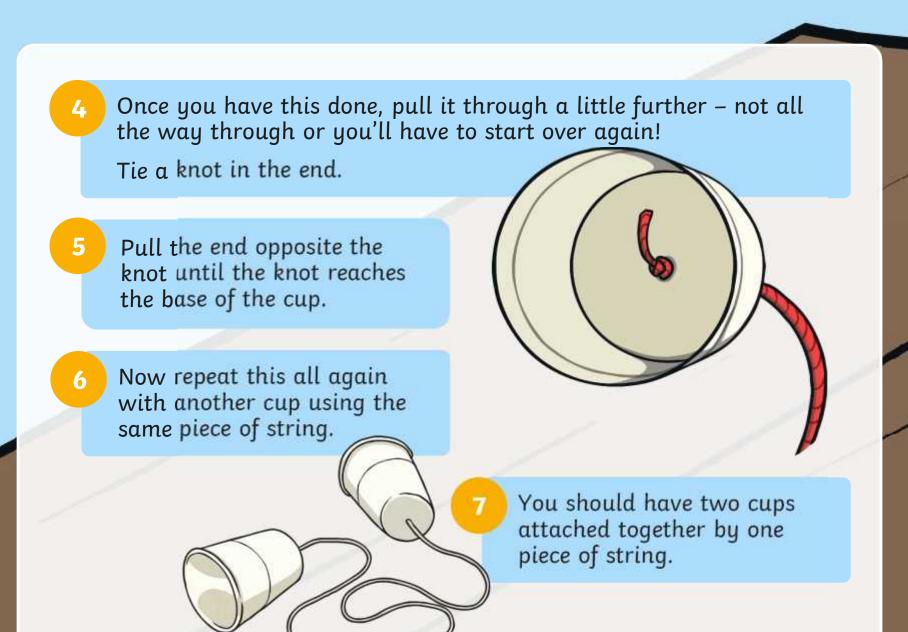
What to Do

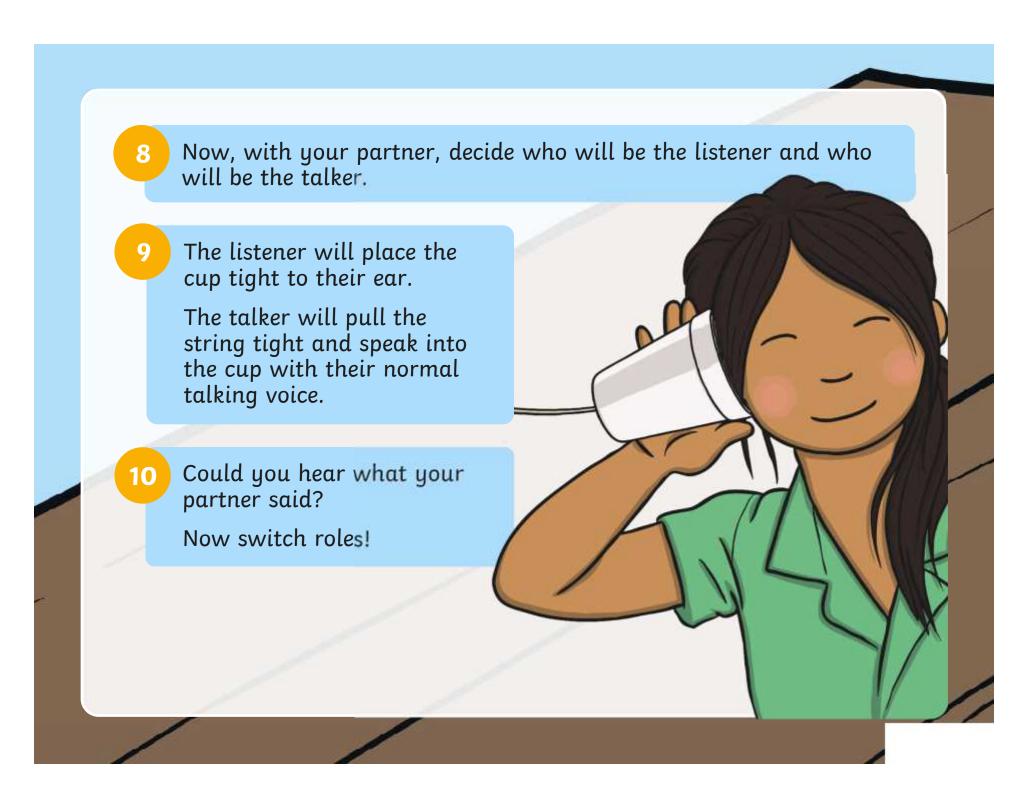
Using your sharp pencil, put a whole in the bottom of the cup. Be careful not to prick your finger!

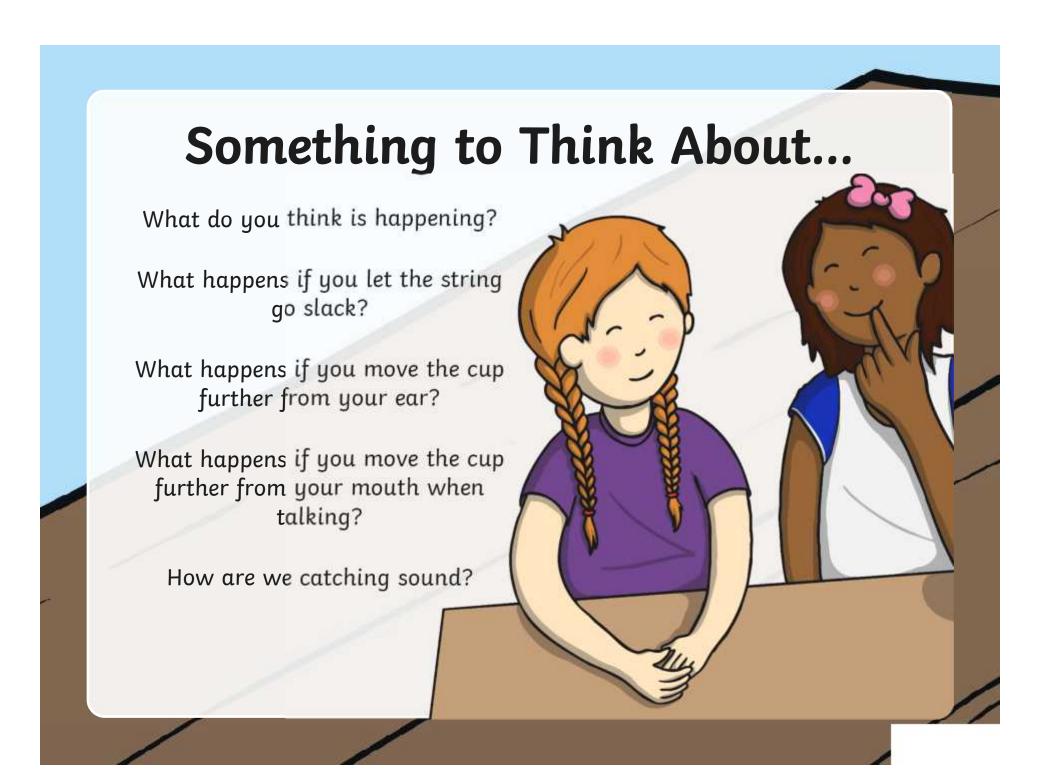


Next, use your ruler and scissors to cut a length of string 60cm long.

Put one end of the string through the hole you have made in the cup.







Here's What's Happening...

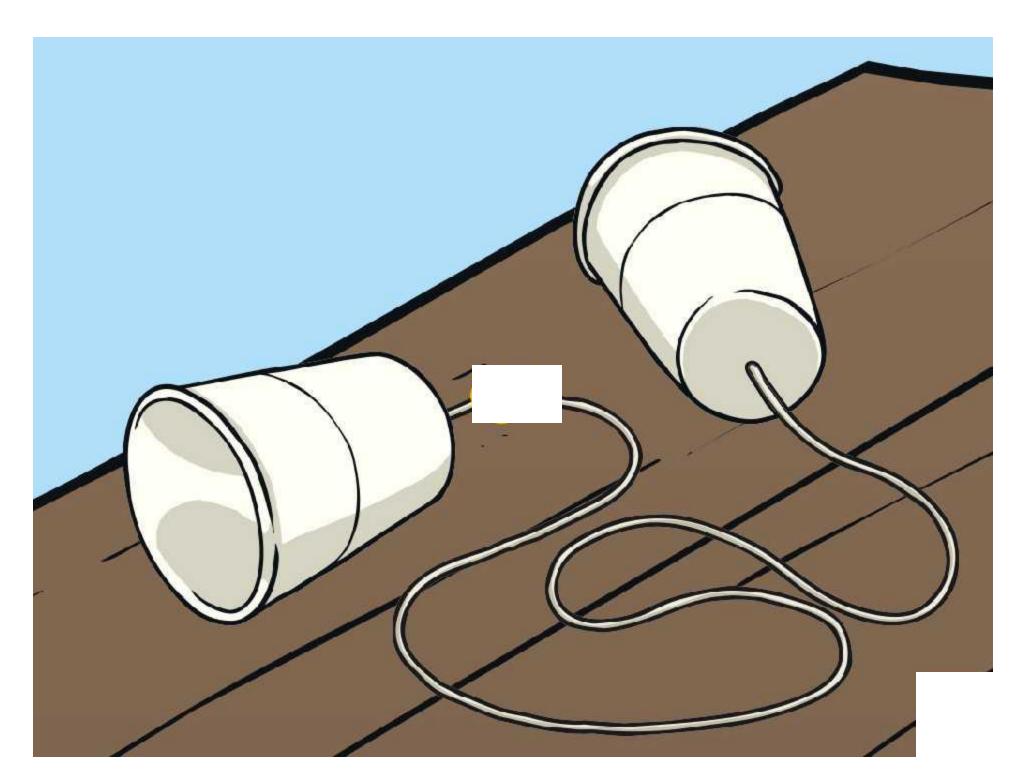
When you speak into the cup, the sound or vibrations we make are being 'caught' in the first cup.

These same sound or vibrations travel down the string and enter the second cup placed close to our ear. The sounds caught in this cup then travel into our ear and we can hear what our partner has said!

When you let the string go slack, the vibrations don't travel very well and we can't hear the sounds at the other end.

When we move the first cup further away from our mouth, the sound doesn't get caught very well in the first cup, and not all of the vibrations then travel down the string.

When we move the second cup further away from our ear, not all of the vibrations that travelled down the string get passed into our ear and we can't hear the sounds very well.



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