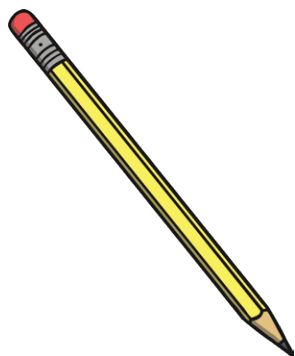


# Disclaimer

This resource is provided for informational and educational purposes only. As this resource refers to sharp equipment, you must ensure that an adequate risk assessment is carried out prior to using this resource. Twinkl is not responsible for the health and safety of your group or environment. It is your responsibility to ensure the resource and the information/activity it contains are safe and appropriate to use in your situation.

# Cup and String Telephones

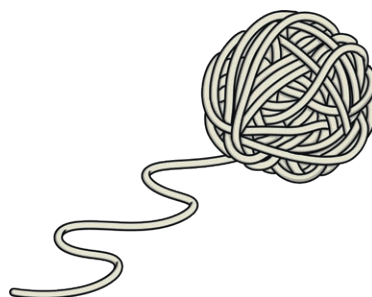
You will need:



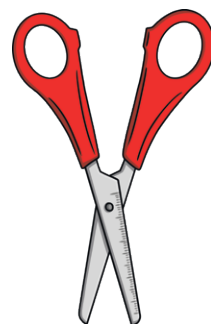
sharp pencil



paper cups



string



scissors

## Method

1. To make your string telephone, you will need two cups.
2. Pierce a hole in the end of each cup with the pencil. Ask a grown up to do this for you.
3. Cut a piece of string, at least 2 metres in length.
4. Thread the string through the two holes and tie a knot to secure it in place. Your cups should now be attached by the string.
5. Work with a partner. Hold a cup each and move apart until the string is straight and tight.
6. Take it in turns to speak or listen. Can you hear each other?

## The Science

You can hear what is being said through the cup because sound travels in 'sound waves'. These waves vibrate along the string into the other cup.

When you are listening to the cup, the cup acts like a speaker, making the sound louder.



Why does your voice travel along the string?

Could you use something other than a cup?

Could you use different materials?

Can you join another string telephone to your string and talk to more people?

What difference will it make if the string is loose?

What do you think will happen if you change the length of the string?

What do you think will happen if you change the size of the cup?

## Cup and String Telephones

## Cup and String Telephones

What do you think will happen if you change the size of the cup?

What do you think will happen if you change the length of the string?

What difference will it make if the string is loose?

Can you join another string telephone to your string and talk to more people?

Could you use different materials?

Could you use something other than a cup?

Why does your voice travel along the string?