

Hearing Sound Science Experiment

You will Need:

Plastic sandwich wrap

Outside of a springform cake tin

2 bendy straws

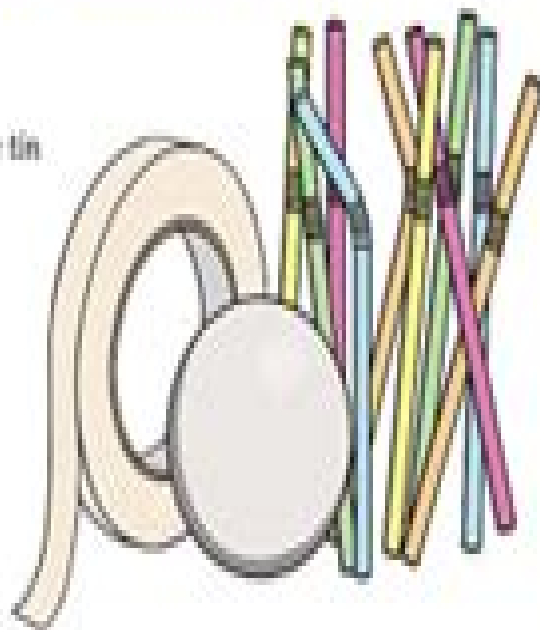
Table tennis ball

Sticky tape

2 glass bowls the same size

Water

Scissors



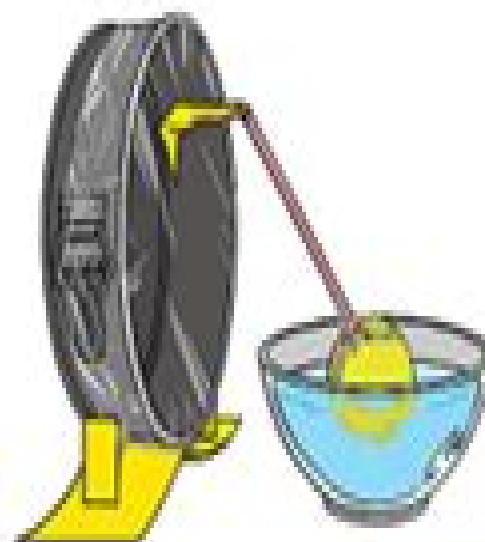
Instructions

1. Stretch the plastic wrap over the top of the springform cake tin so it looks like a tambourine or drum. Use sticky tape to hold it in place.
2. Squash the top of one straw a little and put it into the top of the other straw. This joins the straws together to make one long straw with the bendy parts in the middle.
3. Bend one of the bendy parts to make a right angle in the long straw. Keep it in place with some tape.
4. Use the scissors to cut into one end of the straw. Cut about 5cm up the side

5. Place the tin on its side (vertically) in the empty bowl with the right angle of the straw facing at the base but not touching the rim of the bowl.
6. Put the bowl of water in front and put the table tennis ball in the middle of the water.
7. Clap your hands or make other sounds behind the tin and look at what happens to the table tennis ball and the water.

Explanation

This experiment is much like a real son. Soundwaves vibrate against the cardboard and along these tiny tubes into the water. The cardboard is full of liquid, just like the bowl of water. It is lined with small hairs that turn the vibrations into nerve signals. Our brain reads these signals as different sounds.



Experiment



one side tin so it looks like a drum.

top of the other straw with the bendy parts

in the long straw. Keep

without form up the side

the tin the water is in

dropped tin. Place it in the water from the tin



ink saving

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Sound And Hearing Science Experiments

Richard Bailey



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