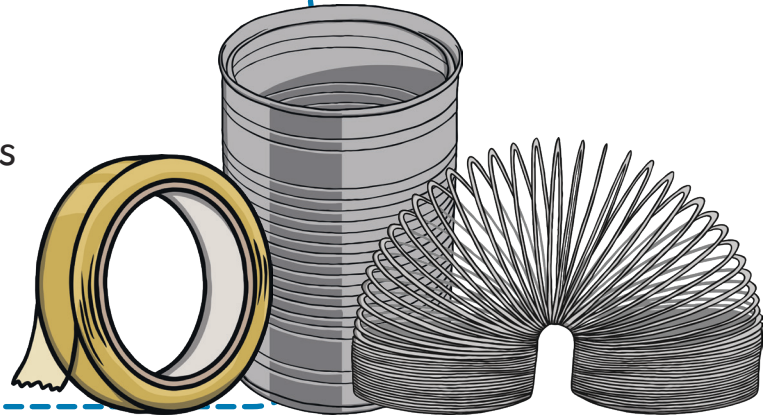




Laser Canon Sounds Experiment

You Will Need:

- Metal slinky
- Sticky tape
- Empty tin with no sharp edges
e.g. drinking chocolate
- Pencil
- 2 people



Steps:

- 1 Use the tape to attach the slinky to the base of the tin.
- 2 Hold the open end of the tin to your ear.
- 3 Get another person to stretch the slinky out and then tap it with a pencil.
- 4 Listen to the sounds that are created.

What's Going On:

All sound is made by vibration. Tapping the spring with the pencil makes it vibrate. The vibration goes along the slinky and when it reaches the tin it makes it vibrate. This then makes the air inside the tin vibrate. The shape of the tin is perfect to make the sound vibrations bounce off its walls. The vibrations travel through the air, reach your ears and then your brain reads them as sounds. This particular sound is like a laser canon.