stereo Hanger

- What You Need
- metal coat hanger
- two 12-inch pieces of string
- table

Science Scoop

Sounds are made by vibrations. When you **tap** the hanger, it vibrates (moves back and forth). This makes the **air** around it vibrate. When these vibrations travel into your ear, you hear them as sound. If you listen to the hanger with your fingers in your ears, the vibrations travel through the string and into your ears. It sounds different because sound travels differently through string (a solid) than through air (a gas).

I Tie a piece of string to each corner of a coat hanger.

2 Loop the string around your index fingers.

3 Swing the hanger so it taps against the side of a table. What do you hear?

4 Put your index fingers (with the string attached) in your ears.

5 Tap the hanger again. Now what do you hear?

Sent in by Stephen H. of Germantown, TN



Now it's time for you to **experiment**. What happens if you replace the string with sewing thread or fishing line? Or, what happens if you hang different **objects** from the string, like a metal spoon or a sneaker? Choose **one thing** to change (that's the variable), and **predict** what you think will happen. Then **test it** and send your results to ZOOM.





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