# Paper Megaphone

**Make your own megaphone with items from your house.**

## Materials
- Construction paper
- Tape
- Scissors

## Procedure
1. Use one sheet of construction paper to make a funnel and tape it together. Leave an opening at the narrow end big enough for your mouth.
2. Cut a 3-inch strip out of another piece of construction paper. Roll it into a cylinder that fits around the smaller end of the funnel.
3. Tape the cylinder around the smaller end of the funnel. Make sure there are no gaps the sound can escape through.
4. Put the cylinder to your mouth and speak into it. Try having someone else speak normally and then through the megaphone to compare.

## Results
Your voice sounds louder when you speak through the megaphone than it does normally.

## Why?
The shape of the megaphone redirects the vibrations that make the sound of your voice. Because less of the vibrations escape to the sides, your voice sounds louder wherever you point the megaphone.

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To learn more about sound, check out the Pink Palace Museum's Sound Science Program.