



Name: Form:

Based on pages 10 and 11 of *Changing sounds*

Controlling the spread of sound

Try this...

1. Go into an open space and ask a friend to stand at least ten metres away.
2. Start talking to your friend and, keeping your voice at the same loudness, cup your hands around your mouth.
3. Now ask your friend to repeat what you have done.
4. How did cupping the hands affect the sound of your voices?



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5. Suggest a reason for what you heard.



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6. Stand in front of a ticking clock or a humming computer. Listen to the sound.

7. Cup your hands behind your ears and pull your ears slightly forward. How does the sound change?



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8. Suggest a reason for what you heard.



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9. In the box, draw a simple device you could make which would help people be heard over a distance and could also help people hear very quiet sounds.

10. Explain how the device could be used.



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11. Show the teacher your device, and if your teacher approves, make it and test it. How successful is the device?



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