



Name: Form:

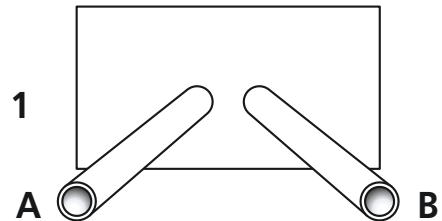
Based on pages 12 and 13 of *Changing sounds*

Investigating the reflection of sound

Try this...

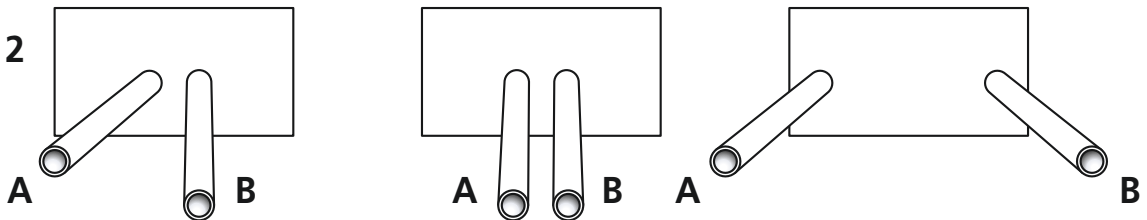
1. Set up a sheet of card and two long cardboard tubes as shown in Diagram 1. Put a loud ticking clock in front of tube B. Then put your ear close to the end of tube A and listen for the sound of the clock.

Diagram 1

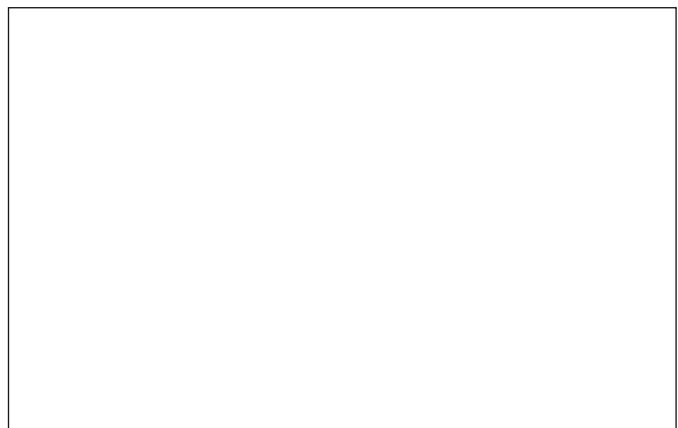


2. Move the tubes to different positions, such as those shown in Diagram 2. Keep the clock in front of tube B.

Diagram 2



3. After you have set up the pair of tubes in a certain position, put your ear to tube A and listen to the sound.
4. Change the position of the tubes and listen again.
5. Keep repeating step 4 until you find the position of the tube which makes the ticking clock sound loudest.
6. Draw the arrangement of the tubes which made the clock sound loudest.
7. Go to a wall which has a large open space next to it.
8. Stand one metre from the wall, clap your hands and listen for an echo.
9. Step back one metre, clap your hands again and listen for an echo.
10. Repeat step 9 until you hear an echo. How far are you from the wall when you hear an echo?



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