

Science

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(Chapter – 12) (Sound)

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Question 1:

How does the sound produced by a vibrating object in a medium reach your ear?

Answer 1:

When a body vibrates the air in its neighborhood is alternately compressed and rarefied. The compressed air has higher pressure than surrounding air. It therefore pushes the air particles near it causing compression to move forward. A rarefaction or low pressure is created at the original place. These compressions and rarefaction causes particles in the air to vibrate about their mean position. The energy is carried forward in these vibration. This is how sound travels.

