

**Ears and Hearing (05)****Overview**

Pop Quiz: Ears and Hearing

Question 1

Sound signals travel from your inner ear to your brain along what structure?

Choices

Temporal bone, ear canal, auditory nerve, cochlea

Conclusion

Your ear converts sound waves into electrical signals. Your auditory nerve carries these signals to your brain.

Question 2

Now, try this one. True or false: Sound travels farther in cold weather.

Conclusion

True! When warm air is above the cold air you feel at ground level, it speeds up sound waves. It bends them back toward the ground and lets sound travel farther in the cold!

Question 3

And finally, what's the loudest noise ever heard by humans?

Choices

Volcano eruption, hydrogen bomb detonation, earthquake, Saturn rocket launch

Conclusion

The loudest noise we have a record of was the volcanic eruption of Krakatoa in 1883. It was heard over 3,100 miles away. That's loud!

Answers: 1. Auditory nerve, 2. True, 3. Volcano eruption

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