

Understanding Sound: How Sound Travels

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Review of Sound Transmission

Name: _____

Date: _____

Answer the following questions about how sound travels through different materials.

1. What does sound require in order to travel?

- A. Vacuum
- B. Matter
- C. Light

2. Sound cannot travel through a ____ because it has no matter.

3. Why is it important to understand how sound travels?

4. Which material typically transmits sound best?

- A. Air
- B. Wood
- C. Water

5. Match the state of matter to how sound travels through it.

Solid

Fast

Liquid

Slower

Gas

Slowest

6. Sound can travel through empty space.

True

False

7. What did we discover about how sound travels?

8. How does sound travel differently in air versus water?

- A. Faster in air
- B. Slower in water
- C. Faster in water

9. God designed sound to work through His created ____.

10. What is one example of a hands-on experiment to explore sound travel?

Answer Key

1. Matter 2. vacuum 3. It helps us learn about communication and how we hear things. 4. Wood 5. Fast 6. False 7. Sound travels through solids, liquids, and gases but not through vacuum. 8. Faster in water 9. matter 10. Using a tuning fork in water to see how sound travels.

