

Name \_\_\_\_\_

## Speed of Sound: A Sonic Adventure through Different Materials

### Short Answer

1. Explain why the speed of sound in air changes with temperature.
2. Compare the speed of sound in freshwater to that in seawater. What factors contribute to the difference in speed?
3. Why does sound travel faster in solid materials compared to air?
4. Describe one real-life application where understanding the speed of sound in a solid material is essential.
5. How does humidity affect the speed of sound in air?

