

Name \_\_\_\_\_

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

### Multiple Choice Questions

1. What is the speed of sound in dry air at room temperature?
  - a) 1,480 meters per second
  - b) 343 meters per second
  - c) 5,120 meters per second
  - d) 767 miles per hour
  
2. Why does sound travel faster in warmer air than in colder air?
  - a) Warmer air has more water vapor.
  - b) Air molecules move more quickly in warmer air.
  - c) Warmer air is denser.
  - d) Sound travels at the same speed in all temperatures.
  
3. In which material does sound travel the fastest?
  - a) Water
  - b) Air
  - c) Iron
  - d) Wood
  
4. What is the speed of sound in seawater?
  - a) 1,530 meters per second
  - b) 767 meters per second
  - c) 343 meters per second
  - d) 5,120 meters per second
  
5. Which factor affects the speed of sound in solids?
  - a) Humidity
  - b) Density
  - c) Altitude
  - d) Color

