

Name _____

Sound Waves vs. Light Waves: A Journey into the World of Waves

Multiple Choice Questions

1. What is the primary medium through which sound waves travel?
 - a) Vacuum
 - b) Liquid
 - c) Solid
 - d) Air

2. Which type of wave is sound characterized as?
 - a) Transverse
 - b) Electromagnetic
 - c) Longitudinal
 - d) Tidal

3. What is the approximate speed of light in a vacuum?
 - a) 3,000 meters per second
 - b) 299,792,458 meters per second
 - c) 343 meters per second
 - d) 100,000 miles per second

4. Which property of a sound wave determines its loudness?
 - a) Frequency
 - b) Wavelength
 - c) Speed
 - d) Amplitude

5. In which direction do the particles of the medium move in a longitudinal wave like a sound wave?
 - a) Perpendicular to the wave's direction
 - b) Parallel to the wave's direction
 - c) Diagonally to the wave's direction
 - d) Circularly around the wave's direction

