

Name _____

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

Short Answer

1. Explain the key difference between sound waves and light waves regarding the requirement for a medium.
2. What property of a light wave determines its color, and how does it relate to frequency?
3. Why can't you hear sounds in outer space, even if there are stars and galaxies emitting light?
4. Describe what happens to air particles when a sound wave passes through them.
5. How does the speed of sound change in different mediums, such as air and water?

