

Name _____

Riding the Wave: The Power of Amplitude in Wave Physics

Short Answer

1. Explain how amplitude affects the intensity of a sound wave and provide an everyday example.
2. Describe the relationship between amplitude and the brightness of light waves, using examples from daily life.
3. How does our perception of amplitude differ between sound waves and light waves? Provide insights into how we perceive loud sounds and bright light.
4. What is wave interference, and how can it lead to changes in amplitudes when waves overlap? Offer an example to illustrate this phenomenon.
5. Think of an application where a deep understanding of amplitude is crucial, and explain why amplitude plays a vital role in that specific context.

