

1. What is sound, and how is it produced? Explain the difference between a sound source and a sound medium.
2. Describe the properties of sound waves. How does amplitude affect the loudness of a sound, and how does frequency relate to pitch?
3. Explain the term "vibration" in the context of sound. Provide examples of everyday objects that vibrate and produce sound.
4. What is the speed of sound in air, and how does it compare to the speed of light?
5. A simple pendulum oscillates 20 times in 40 seconds. Calculate its time period and frequency.
6. If you are talking in an empty room, your voice will echo but if you are talking in a furnished room your voice doesn't echo. Explain.