

Name _____

Exploring the World of Sound: What Is Sound?

Multiple Choice Questions

1. What is sound?
 - a. A form of light energy
 - b. A form of mechanical energy
 - c. A form of chemical energy
 - d. A form of nuclear energy

2. What is the role of amplitude in sound waves?
 - a. It measures the number of vibrations per second.
 - b. It determines the speed of sound.
 - c. It measures the strength or intensity of the sound wave.
 - d. It indicates the distance between two consecutive points in the wave.

3. What is frequency, and how is it measured?
 - a. Frequency measures the strength of a sound wave, and it is measured in decibels.
 - b. Frequency measures the number of vibrations per second, and it is measured in Hertz (Hz).
 - c. Frequency measures the distance between two consecutive points in a sound wave, and it is measured in meters.
 - d. Frequency measures the speed of sound, and it is measured in meters per second.

4. How do our ears convert sound waves into signals our brain can interpret?
 - a. Sound waves directly reach the brain.
 - b. The eardrum amplifies the sound waves.
 - c. Sensory cells in the inner ear convert vibrations into electrical signals.
 - d. The auditory nerve vibrates in response to sound.

5. Which of the following is NOT an application of sound?
 - a. Communication
 - b. Music and Entertainment
 - c. Medical Diagnosis
 - d. Light Detection

