

Name _____

The Rhythmic World of Waves: Understanding Frequency and Its Measurement

Multiple Choice Questions

1. What is wave frequency?
 - A) The distance between two wave crests
 - B) The speed of a wave through a medium
 - C) The number of complete cycles a wave makes in one second
 - D) The height of a wave's crest

2. How does wave frequency relate to the pitch of sound waves?
 - A) Higher-frequency sound waves have a lower pitch.
 - B) Lower-frequency sound waves have a higher pitch.
 - C) Higher-frequency sound waves have a higher pitch.
 - D) Frequency has no effect on sound pitch.

3. Which unit is used to measure wave frequency?
 - A) Decibel
 - B) Hertz
 - C) Watt
 - D) Newton

4. What determines the color of light waves in the visible spectrum?
 - A) Wave speed
 - B) Wave amplitude
 - C) Wave direction
 - D) Wave frequency

5. How is wave frequency commonly measured using an instrument?
 - A) By using a thermometer
 - B) By using a ruler
 - C) By using an oscilloscope
 - D) By using a microscope

