Properties of Waves Worksheet

Define the period of a pendulum?

What is the period of a pendulum that takes one second to make a complete back-and-forth vibration?

Which of these pendulums would have the greatest length measured in meters: a pendulum with a period of 2 seconds or a pendulum with a period of 1.5 seconds?

Describe how a sine curve is related to a wave.

Draw a picture of a wave and label these parts of the wave: amplitude, crest, trough, and wavelength.

Distinguish between the period and frequency of a wave. How do these two quantities relate to each other?

Does the medium in which a wave travels move along with the wave itself? Defend your answer.

How does the speed of a wave relate to its frequency and wavelength?

As the frequency of sound of sound is increased, does the wavelength increase or decrease? Give an example.

11. Distinguish between constructive interference and destructive interference.

13. What causes a standing wave?

speed, or both?

12. Is interference a property of only some types of waves or is it a property of all types of waves?

14. When a wave source moves toward a receiver, does the receiver encounter an increase in wave frequency, wave

Name:

Period: