## MECHANICAL WAVES QUIZ REVIEW

Instructions: Show your work completely in your journal when answering the following questions.

- Define and provided examples for the following types of waves:
  - a. Transverse

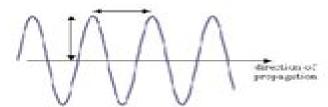
c. Surface

- b. Longitudinal
- What is the only factor that affects the speed of a mechanical wave?
- 3. Define and list the variables for the following terms:
  - a. Frequency
  - b. Period
  - c. Wave Speed

- d. Amplitude
- e. Wavelength
- Describe if the following have a direct relationship, inverse relationship, or no relationship:
  - a. Wavelength and Frequency
  - b. Period and Frequency
  - c. Wavelength and Period

d. Frequency and Amplitude
 e. Amplitude and Wavelength

- Sketch and label the following diagrams:
  - a. Transverse Wave:



b. Longitudinal Wave:



To and Fre Motion of Air Molecules

Direction of Propagation

- 6. If the frequency of a wave is 742 Hz, what is the period of the wave?
- 7. A sound wave has a speed of 341 m/s and a period of 0.0076 seconds. What is its wavelength?
- 8. A wave has a wavelength of 0.351 m and a frequency of 615 Hz. What is its wave speed?
- Shaun is 452 m away from Katy when they call out to her. It takes 1.50 seconds for the sound to travel from Katy to Shaun.
  - a. What is the speed of the sound wave from Shaun's shout?
  - b. If the wavelength of the sound waves is 2.10 m, what is its frequency?

# **Mechanical Waves Review**

**PT Brinkman** 



## Mechanical Waves Review Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Mechanical Waves Review**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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