

## Waves Study Guide Answer Key

- What is the top of a wave called? **Crest**
- What is the bottom of a wave called? **Trough**
- What is frequency? How many waves go past a point in one second; unit of measurement is **hertz (Hz)**.
- If a wave is traveling at 60 cm/second and has a wavelength of 15 cm, what is the frequency?

$$\begin{array}{ll} G \quad v = 60 \text{ cm/s} & E \quad f = v / \lambda \\ U \quad f = ? & S \quad f = (60 \text{ cm/s}) / 15 \text{ cm} \end{array}$$

- What does amplitude measure? How far the medium moves from rest position (where it is when not moving).
- On the diagram below, indicate the distance that represents the wavelength of the wave and indicate the distance that represents the amplitude.



- How many complete waves are there in the diagram above? Is it transverse or longitudinal? **3, transverse**
- What is the difference between a transverse wave and a longitudinal wave? **Transverse waves: Waves in which the medium moves at right angles (perpendicular) to the direction of the wave (looks like a jump rope). Longitudinal waves: Waves in which the medium moves back and forth in the same direction as the wave (looks like a slinky).**
- Are sound waves transverse waves or longitudinal waves? Why? **Longitudinal waves because they move back and forth in the same direction as the wave.**
- Why can't you calculate the frequency of the wave in the diagram? What information is missing? **Missing wave speed or the period.  $f = v / \lambda$  or  $f = 1/T$**
- What is the wavelength of a sound wave with a frequency of 50 Hz? (Speed of sound is 342 m/s)

$$\begin{array}{ll} G \quad v = 342 \text{ m/s} & E \quad \lambda = v / f \\ U \quad \lambda = ? & S \quad \lambda = (342 \text{ m/s}) / 50 \text{ Hz} \end{array}$$

- A sound wave in a steel rail has a frequency of 620 Hz and a wavelength of 10.5 m. What is the speed of sound in steel?

$$\begin{array}{ll} G \quad \lambda = 10.5 \text{ m} & E \quad v = f \times \lambda \\ U \quad v = ? & S \quad v = 10.5 \text{ m} \times 620 \text{ Hz} \end{array}$$

- Determine the frequency of a microwave 6.0 cm in length. (A microwave is an electromagnetic wave. It travels through space at a speed of  $3.0 \times 10^8$  m/s)

$$\begin{array}{ll} G \quad \lambda = 6 \text{ cm} \rightarrow 0.06 \text{ m} & E \quad f = v / \lambda \\ U \quad f = ? & S \quad f = 3.0 \times 10^8 \text{ m/s} / 0.06 \text{ m} \end{array}$$

- What is the period of the microwave in problem 13?

$$G \quad f = 5 \times 10^9 \text{ Hz} \quad U \quad T = ? \quad E \quad T = 1 / f \quad S \quad T = 1 / 5 \times 10^9 \text{ Hz} \quad S \quad T = 0.0000000002 \text{ s}$$

# Study Guide Wave Properties Answers

**Paul B. Kelter, Steven S. Zumdahl**

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