

## Describing Waves

Read from Lesson 2 of the Waves chapter at The Physics Classroom:

<http://www.physicsclassroom.com/Class/waves/u1012a.html>

<http://www.physicsclassroom.com/Class/waves/u1012b.html>

<http://www.physicsclassroom.com/Class/waves/u1012c.html>

<http://www.physicsclassroom.com/Class/waves/u1012d.html>

MOP Connection: Waves: sublevels 2 and 3

1. A wave is introduced into a medium and a snapshot of the medium at a particular instant in time is shown at the right. Several positions along the medium are labeled. Categorize the positions as either crests or troughs.



Crests: \_\_\_\_\_ Troughs: \_\_\_\_\_ Neither: \_\_\_\_\_

2. The wavelength of the wave in the diagram below is given by letter \_\_\_\_\_ and the amplitude of the wave in the diagram below is given by letter \_\_\_\_\_.



3. A sine curve that represents a transverse wave is drawn below. Use the centimeter ruler to measure the wavelength and amplitude of the wave (show units).



a. Wavelength = \_\_\_\_\_

b. Amplitude = \_\_\_\_\_

4. The number of cycles of a periodic wave per unit time is called the wave's \_\_\_\_\_.
5. Any repeated and periodic motion can be described by a frequency. For instance, the frequency of rotation of a second hand on a clock is \_\_\_\_\_.
- a. 1/60 Hz      b. 1/12 Hz      c. 1/2 Hz      d. 1 Hz      e. 60 Hz
6. A pendulum makes 40 vibrations in 20 seconds. Calculate its period?



Throughout this unit, internalize the meaning of terms such as period, frequency, wavelength and speed. Utilize the meaning of these terms to answer conceptual questions; avoid formula fixation.

# Physics Chapter 1 vibrations Waves Answers

**Liyong Dong**



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