

Describing Waves

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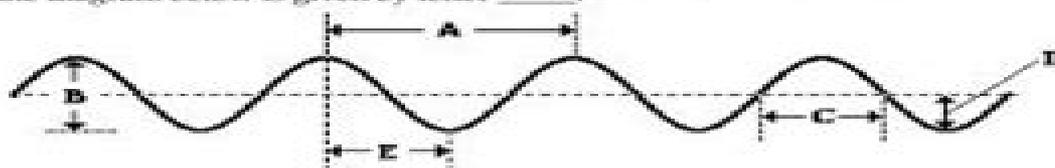
MOP Connection: Waves: sublevels 2 and 3

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.

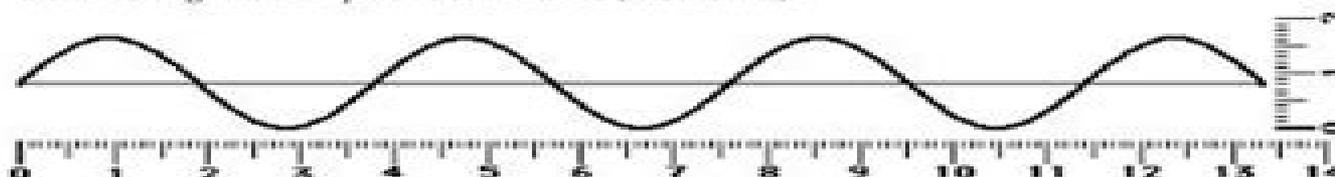


Crest: _____ Trough: _____ Neither: _____

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 formulae fixation.

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Clifford Lane



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