

Describing Waves

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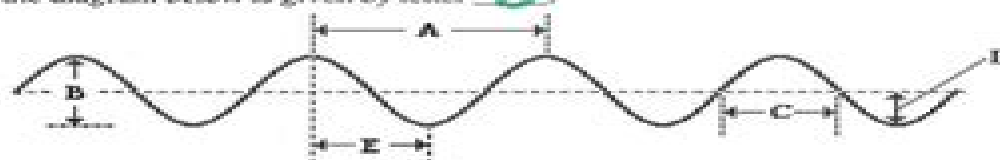
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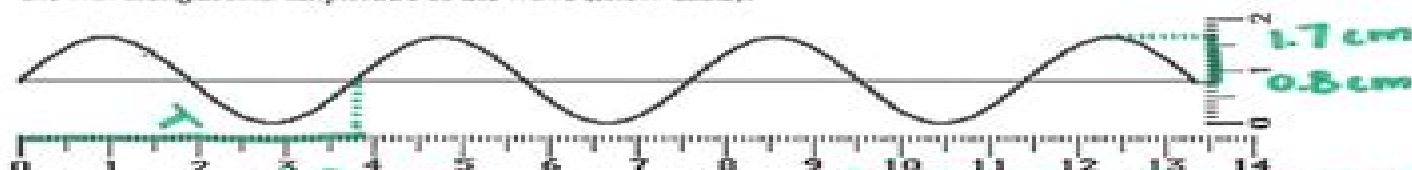
1. A wave is introduced into a medium and a snapshot of the medium at a particular instant in time is shown at the right. Several positions along the medium are labeled. Categorize the positions as either crests or troughs.

Crests: B, ETroughs: D, GNeither: A, C, F, H, I, J

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



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 = 3.8 cmb. Amplitude = 1.7 cm - 0.8 cm = 0.9 cm

4. The number of cycles of a periodic wave per unit time is called the wave's frequency.
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?

$$f = \frac{40}{20} = 2$$

$$T = \frac{1}{f} = \frac{1}{2} = 0.5 \text{ s}$$



TIP

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.

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Zongyi Deng



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