

Name _____

All About Waves



Waves carry energy from one location to another. The **crest** is the highest point of a wave, and the **trough** is the lowest point. The distance from one crest to the next, or from one trough to the next, is called **wavelength**. A wave's **amplitude** is the distance from the middle level of a wave to the crest or to the trough. The amplitude shows the amount of energy the wave carries. The more energy a wave has, the greater the amplitude.

The number of waves that pass a point in a second is called **frequency**. The unit used to measure frequency is the **hertz**. One wave per second equals one hertz.

A wave's speed depends on the kind of wave and the material it travels through. Light waves and sound waves, for example, travel at different speeds through air. Light waves travel faster through air than sound waves do. That's why even though lightning and thunder are created at the same time, you see lightning before you hear thunder. The equation below shows how wavelength, frequency, and speed are related:

$$\text{wavelength} \times \text{frequency} = \text{speed}$$

To find out how fast a wave is moving if its wavelength is 15 meters and its frequency is 230 hertz, multiply 15 by 230. The speed of the wave is 3450 meters per second.

Write letters in the blanks below to match each wave property with its definition.

- A. frequency B. amplitude C. wavelength D. trough E. speed

1. _____ the distance from one crest to the next crest
2. _____ the low point of a wave
3. _____ wavelength multiplied by frequency
4. _____ the distance from the middle level of a wave to a crest or trough
5. _____ the number of waves that pass a point in a second
6. What is the speed when wavelength equals 27 meters and frequency equals 97 hertz?
7. Use a ruler to draw a wave with an amplitude of 1 centimeter and a wavelength 7 centimeters.

Physical Science Chapterreview Answers

Rosina Ehmann



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