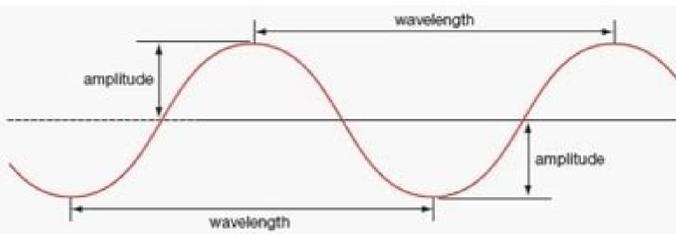


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# Properties of sound waves worksheet answers



- **Amplitude** — the maximum displacement of a wave from its middle position.
- **Frequency** — the number of waves produced each second, or the number of waves that pass a point each second.

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

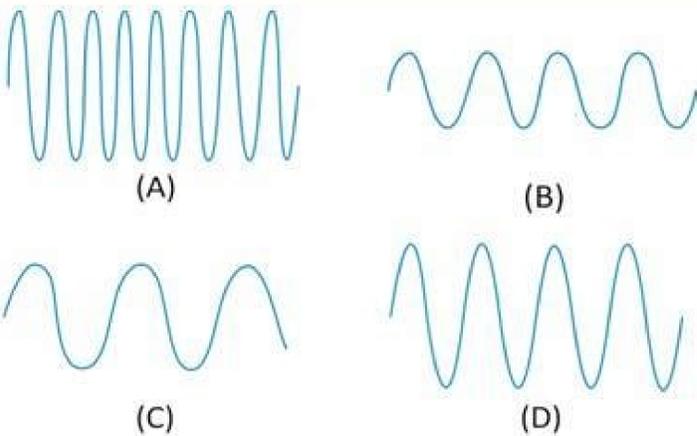
## Electromagnetic Spectrum Worksheet #1

- In each of the following pairs, circle the form of radiation with the LONGER WAVELENGTH:
    - red light or blue light
    - microwaves or radiowaves
    - infrared radiation or red light
    - gamma rays or UV radiation
  - In each of the following pairs, circle the form of radiation with the GREATER FREQUENCY:
    - yellow light or green light
    - x-rays or gamma rays
    - UV radiation or violet light
    - AM radio waves or FM radio waves
  - In each of the following pairs, circle the form of radiation with the LOWER ENERGY:
    - red light or blue light
    - microwaves or radiowaves
    - infrared radiation or red light
    - gamma rays or UV radiation
    - yellow light or green light
    - x-rays or gamma rays
    - UV radiation or violet light
    - AM radio waves or FM radio waves
- Springfield's "Classic Rock" radio station broadcasts at a frequency of 102.1 Hz. What is the length of the radio wave in meters?
  - A beam of light has a wavelength of 506 nanometers. What is the frequency of the light? What color is the light?
  - Blue light has a frequency of  $6.98 \times 10^{14}$  Hertz. Calculate the wavelength of blue light in nanometers.

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

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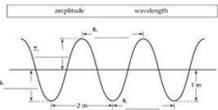


NAME \_\_\_\_\_ DATE \_\_\_\_\_ CLASS \_\_\_\_\_

## Chapter 2 Reinforcement • Wave Properties

- The amplitude of a wave can be measured from the (medium, crest) or the (trough, wavelength) to the rest position of the wave's medium.
- Waves with greater amplitude carry (more, less) energy than waves with smaller amplitudes.
- The wavelength of a transverse wave is often measured from (crest to crest, crest to trough).
- The number of waves that pass a point in one (second, minute) is the wave's (amplitude, frequency).
- Waves with longer wavelengths have a (lower, higher) frequency and waves with shorter wavelengths have a (lower, higher) frequency.

Use the words in the box to label the diagram. You will use each term more than once. Then answer the questions.



- What is the wavelength of the wave shown in the diagram?
- What is the amplitude of the wave shown in the diagram?

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What are the 4 properties of sound waves. What are the properties of sound waves. Basic properties of sound waves. What are the 5 properties of sound.

The feeling heard from our ears is called sound. We feel different sounds that surround us in our daily life. Wave length source: [www.sites.google.com](http://www.sites.google.com) The minimum distance in which you repeat a sound wave itself called its wavelength. In fact the amplitude is used to describe the size of the wave. Thermal expansion of solids, liquids and gas to continue to enjoy our site, we ask you to confirm your identity as human. Sometimes a bigger frequency unit is known as KiloHertz (KHz) which is 1 kHz = 1000 Hz. The frequency of a wave is indicated by the letter f. The Unit S.I to measure the speed is meters per second (m / s or MS-1). Frequency source: [www.media.openschool.com](http://www.media.openschool.com) The number of complete waves or cycles produced in a second is a frequency of the wave. We know that the sound travels in the form of a wave. 4. It is represented by the letter v. So we can say that the time taken to complete a vibration is known as a time period. Transversal waves: a wave in which the particles of the vehicle vibrate and down  $\hat{A} \hat{e} \hat{a}, \hat{r}, \hat{A}$ , "right angles" in the direction in which the wave moves. It is a form of energy that makes us feel. Therefore, the sound waves are longitudinal waves. The measurement unit of the time period is second (s). Now, a complete wave is produced by a complete vibration of the vibrant body. Furthermore, the distance between the centers of Two consecutive compressions or two consecutive rarefactions are the same as its wavelength. Velocity of Wave (wave speed) The distance traveled from a wave in a second is called wave speed or wave speed. The Sound is a longitudinal wave that consists of compressions and rarefaction materials traveling through a medium. What is the relationship between the period of time and the frequency of a wave? The frequency unit S.I is Hertz or Hz. It is said that a vibrant body that emits 1 wave at It is said to have a frequency of 1 hertz. 1. 3. Amplitude when a wave passes through a means, the II. Of the vehicle is temporarily displaced by their original undisturbed positions. The sofa unit of measurement of the amplitude is the meter (M) even if sometimes it is also measured in centimeters. Do you know that the amplitude of a wave is the same as the width of the vibrant body that produces the wave? These waves are produced only in solid and liquid but not in gas. We can say that a wave is produced by the vibrations of the particles of the vehicle through which it passes. Suppose that the time period of a wave is t seconds.in seconds number of waves produced = 1so, in 1 second, the number of waves produced will be = 1 / t (but the number of waves produced in 1 second is called the Your frequency. Since a complete wave is produced by a complete vibration of the vibrant body, so we can say that the number of vibrations per second is called frequency. It is denoted by the letter T, which is 1 Hz is equal to 1 vibration per second. For example: if 10 waves or complete vibrations are produced in a second, the frequency of the waves will be 10 hertz or 10 cycles per second. Velocity = distance traveled / time gokinlet  $v = \hat{A} \hat{z} \hat{A} \hat{r} / \text{TWHERE } T = \text{time taken from a wave. } v = f \times \hat{A} \hat{z} \hat{A} \hat{r}$  This formula is known as a wave equation. Where v = wave speed = frequency "A" wave length of a wave = frequency x wavelength applies to all waves as transverse waves like transverse waves like water waves, longitudinal waves Like the sound waves and electromagnetic waves such as appliantromestic waves and wavesthere radio before having learned various characteristics of sound waves. The S.I unit to measure the wavelength is the meter (M). Time-period time It is necessary to produce a complete wave or a cycle or a cycle is called wave time period. There are two types of waves: longitudinal waves and transversal waves. Thank you very much for your cooperation. Longitudinal waves: a wave in which of the vehicle vibrate back and forth in the direction  $\hat{A} \hat{e} \hat{a}$  "Direction" in The wave is moving. The means can be solid, liquid or gas.  $\hat{A}$ , the frequency of a wave is the same as the frequency of the vibrating body that produces the wave. This is the length of a complete wave. Note: the distance between compression centers and an adjacent rarefaction is half of its wavelength I.E.  $\hat{A} \hat{z} \hat{A} \hat{r} / 2$ . The sound wave can be described by five features: wavelength, amplitude, time period, frequency and speed or speed. Do you know that the frequency of a wave is fixed and does not change even when it passes through different substances? It denoted by a Greek letter  $\hat{A} \hat{z} \hat{A} \hat{r}$  "(Lambda). We know that in a sound wave, the combined length of a compression and an adjacent rarefaction is called its wavelength. Why are the speed and speed are not always the same in size? The time needed to produce a complete wave is called wave time period. What is the relationship between speed, frequency and wave length of a wave? A wave is a vibrant disorder in a medium that brings energy from one point to another without a direct contact between the two points. 2. Therefore,  $f = 1 / \text{time-period} = 1 / \text{twer } f = \text{frequency of wave} = \text{wave time period}$  5. The maximum movement of the particles of the vehicle from their original undisturbed positions, when a wave passes through the middle It is called wave width. wave.



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