

Record your findings about sound and light waves for each of the following.

- Traveling through air**
- Traveling through metal**
- Why light travels faster**

Answer:

Sound waves travelling through the air: Sound waves travelling through air are just like longitudinal waves lacking compressions and rarefactions. The speed of sound waves in air is approximately 332 metres per second.

Light waves travelling through air: Light waves travel in air at a much faster rate than sound waves. Light waves can travel with a speed of 300 000 kilometres per second through air.

Sound waves traveling through metal: Sound waves travel about 17 times faster in metal as compared to air. The sound waves travel with an approximate speed of 5,960 meters per second in metals.

Light waves travelling through metal: The speed of light waves in a metal medium is usually at a net speed which is less than 3.00×10^8 m/s.

Light travels faster than sound waves because light waves are not pressure waves like the sound waves. They also do not require a medium as the sound waves.

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Explanation:

According to Machiavelli, a prince who "keeps his promises and lives with sincerity" is recognized as _____.

To determine the density of an empty plastic jug, you would measure

A) it on a scale.

B) it with a ruler.

C) the mass and volume.

D) the length and volume.

Which of the following explored the new England coastline of the Americas for England? A. Amerigo Vespucci

B. Christopher Columbus

C. John Cabot

D. Vasco d' Aquillera

Two primary causes of computer-related health problems are a poorly designed work environment and failure to take regular breaks to stretch the muscles and rest the eyes. True? or False?

The general term used to describe elevated levels of cholesterol and other fatty substances in the blood is

two scientists failed to report unusual findings when they shared from a recent science experiment. Why is this not scientifically sound?

The part of the US government that carries out laws is

How do you solve $5x - 10 = 3x + 2$

What determines the size and rate of growth of the money supply

$2(x-1)=y+3$

$y=2x+1$

Find slope, x-intercept, and y-intercept for both equations

The solution in the two arms of the U-tube are separated by a membrane that is permeable to water and glucose but not to sucrose. Side A is half filled with a solution of 2 M sucrose and 1 M glucose. Side B is half filled with 1 M sucrose and 2 M glucose. Initially, the liquid levels on both sides are equal. After the

system reaches equilibrium. what changes are observed?

Select the correct form of the verb: ella/devolver

- school districts - MARTA
- airport authorities
- community fire departments

These are all examples of which type of government?

- A) county
- B) municipal
- C) special-purpose
- D) state

What does supremacy clause do?

The rules for documenting any type of source must be exactly memorized.

- a. True
- b. False

How do scientist learn about the mantle and core of the earth

What stopped the advance of the North Korean army on August 4, 1950?

When animals consume a toxic material and it builds up in their bodies more quickly than it can be metabolized or excreted, it may harm them, as well as humans who consume them. What is this process called? Biomagnification

Biological half life

Environmental persistence

Environmental stability

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