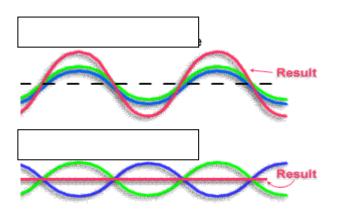
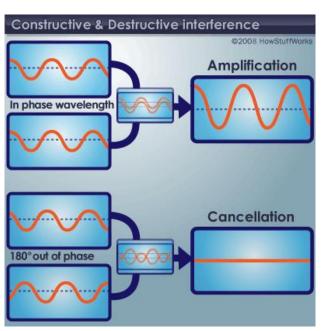


Wave Encounters! When a similar wave meets another similar wave, this can happen... When two or more waves come together, this can cause Interference is added together or their happens when waves meet and their is taken away. When the crests and troughs of two waves come together exactly, this can cause When this happens the of the two waves is added together. This means that two mechanical waves with small can add together to make one larger wave with a greater When the crests of one wave joins with the trough of another wave, this can cause . When this happens the of one of the waves from the other wave. is

Two identical sound waves can even cancel each other out so you cannot \_\_\_\_\_ them.







What is the relationship between wavelength and frequency?

Define wavelength.
Define Frequency.
It is usually written as waves per second. (waves / second)
Below is a wave with a frequency of 5 Waves per second!
Below is that same wave with a decrease in wavelength! What is the frequency of the wave below per second?
Answer:
Allower.
When you decreased the wavelength, what happened to the frequency?
What is the relationship between wavelength and frequency?
the frequency you the wavelength.
- <u>Increase</u> the wavelength you the
This is an relationship. means
Thinking about frequency and wavelengthWhen one gets the other gets smaller and when one gets the other gets bigger.

## Link to Constructive and destructive Interference

http://earthguide.ucsd.edu/earthguide/diagrams/wave\_interference/wave\_interference.html

## Link to Electromagnetic Waves and the relationship between Frequency & Wavelength.

http://earthquide.ucsd.edu/eoc/special\_topics/teach/sp\_climate\_change/p\_emspectrum\_interactive.html

## Link to the relationship between Energy and its frequency

http://amazingspace.org/resources/explorations/light/makewaves-frames.html

Link to transverse and longitudinal waves. Notice the impact waves have on particles. Waves transfer energy not matter.

https://www.acs.psu.edu/drussell/Demos/waves/wavemotion.html

## All kinds of wave interactions.

https://www.edumedia-sciences.com/en/node/355-waves