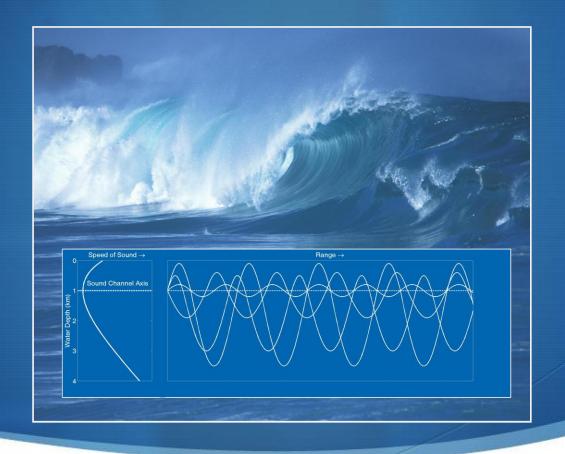
Waves



What is a Wave?

▲ A wave is a disturbance that transfers energy from one place to another.



What is Energy?



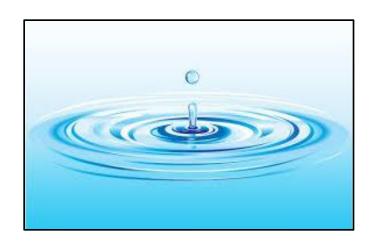
- The ability to do work.
 - WORK:

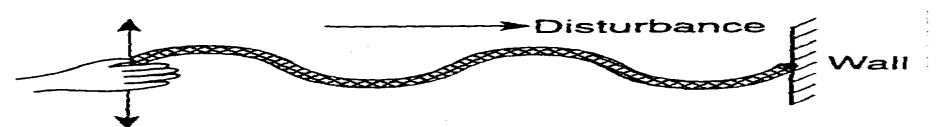
 Movement of
 an object over a
 distance.

What is a Medium?

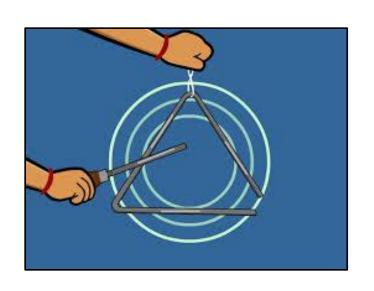
- ♦ A material through which a wave can travel
- Example of mediums:

 - ♦ Solids rope





How is a Wave Created?

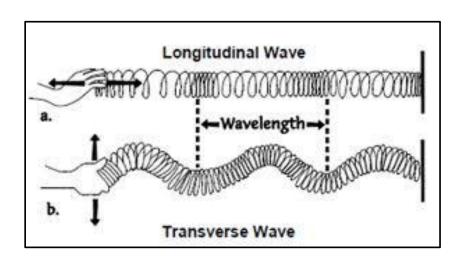


 Waves are caused when a source of energy causes a medium to vibrate (move)

How does a boat transfer energy to the water?



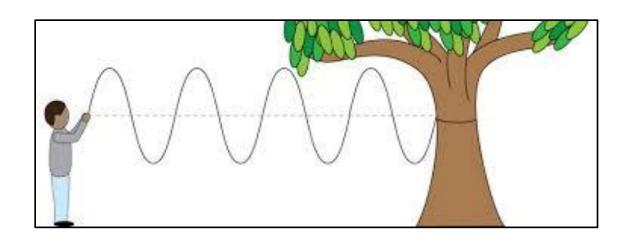
What types of waves are there?



- Longitudinal
- Surface

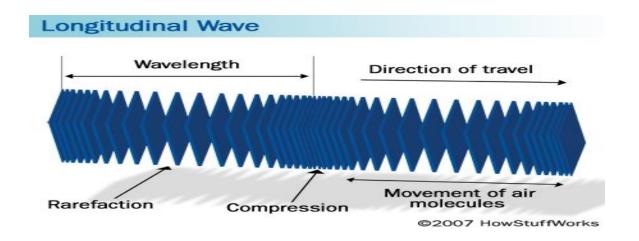
What is a Transverse Wave?

♦ Waves where the disturbance moves perpendicular to the direction of the wave.

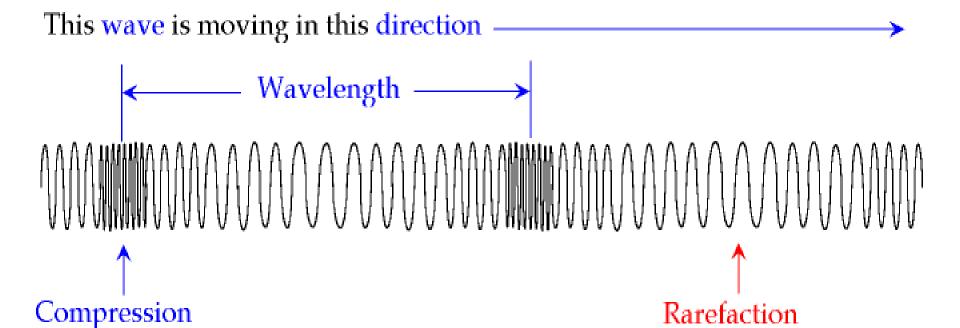


What is a Longitudinal Wave?

♦ Waves where the disturbance moves in the same direction as the wave.

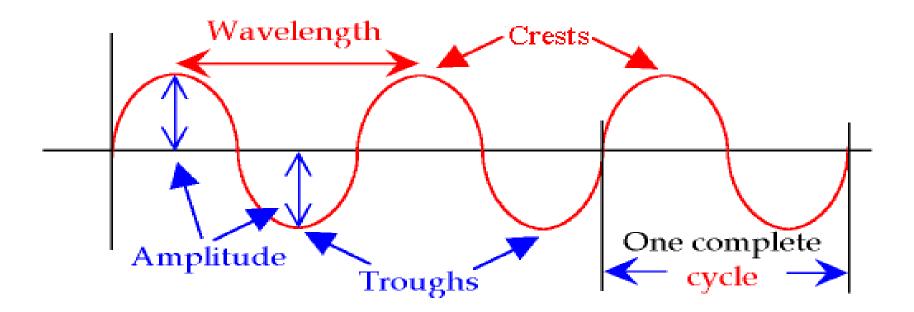


Longitudinal Wave



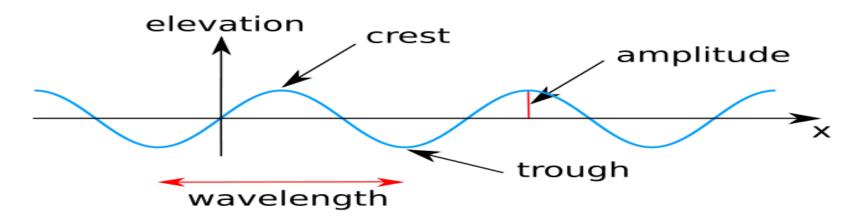
Transverse Wave

This wave is moving in this direction



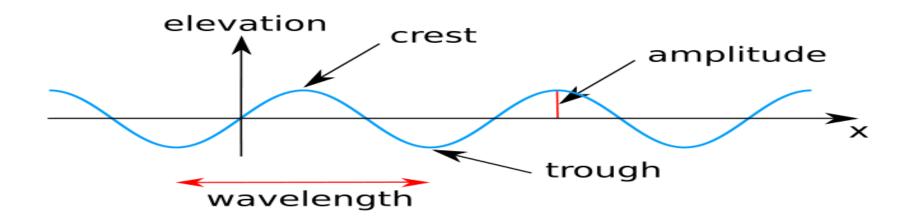
What is an Amplitude?

- ♦ Height of the wave from the rest position.



What is Wavelength?

- Distance between two corresponding wave parts.
- Distance from crest to crest, trough to trough, etc.



What is the Frequency?

Number of complete waves that past a given point in a certain amount of time.

- Speed divided by the wavelength.
- Inversely related to the wavelength.

