

# Waves

Translational and periodic types of motion are the most commonly observed kinds of motion. While translational motion has both the begin and end points., periodic motion repeats itself regularly in equal intervals of time, and can be classified into wave motion and oscillatory motion. Wave motion occurs when the mass elements of a medium make relatively small oscillatory motions, but **collectively** give rise to a pattern which travels for long distances. For example, in a "Mexican wave", the up-and-down motion of spectators of sports events can be viewed as wave motion since their small **individual** motions give rise to a disturbance, which travels, around the stadium. This is also true for waves on a string; the easiest to visualize.

A wave is a travelling (with a definite speed  $v = f\lambda$ ) or standing disturbance through a medium or empty space. Waves can be classified into Mechanical waves and Electromagnetic waves. The wave propagating in space through electric and magnetic fields, varying in space and time simultaneously, are called electromagnetic (EM) waves. The EM waves are oscillating fields, and are harder to get a handle on as they do not need a medium to propagate. The speed of EM waves in empty space is  $c = 3 \times 10^8$  m/s. In this section, our focus is on mechanical waves.

Mechanical waves are created by the interaction between neighboring particles in an elastic medium. When mechanical waves travel in elastic media with speed  $v = f\lambda$ , they transfer energy and momentum from one particle to the next via these nearest neighbour interactions, with the net effect being to pass these quantities along from the source to the receiver.

Travelling wave: e.g. water ripples. As graphically illustrated below, the forms of travelling waves are:

- a) Wave front
- b) Pulse
- c) Spatially periodic travelling waves



Standing wave: e.g. rubber band, violin string

There are two types of mechanical waves, namely: transverse and longitudinal waves.

## 1. Transverse waves

In this type of wave, the displacement of a group of particles (mass elements of the medium) from their equilibrium positions is perpendicular to the direction of propagation (motion) of the wave. For example, light is a transverse electromagnetic wave, with changing electric and magnetic fields at right angles to each other and to the direction of propagation. Waves on a string is another example of transverse waves.

# Chapter 12 Waves Answers

**Christine Caputo**



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