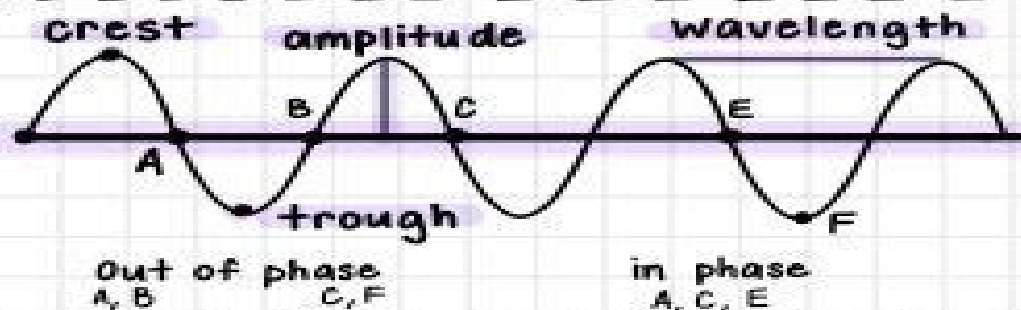




Waves

A **pulse** is a singular disturbance that carries energy through space

A **wave** is a pulse repeating at regular intervals.



When the wave reaches a **boundary**, it reflects off and inverts

Points on a wave are **in phase** if they

- have the same displacement from equilibrium
- are moving in the same direction

Frequency f describes the number of waves per second. measured in Hertz (Hz)

$$T = \frac{1}{f}$$

A wave's **period, T** describes how long it takes for one wave to pass. measured in seconds

transverse wave



Medium moves perpendicular to wave direction.
e.g. wave on a string

longitudinal wave



Medium moves parallel to wave direction.
e.g. sound

surface wave



Medium moves both parallel and perpendicular to wave direction.
e.g. surface of water

Mechanical waves require a medium to travel through.

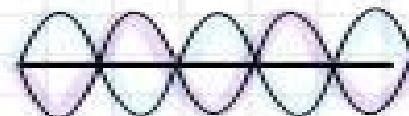
Electromagnetic waves do not require a medium to travel through.

Resonance energy is transferred by a vibration resulting in standing waves with high amplitude.
e.g. guitar strings

The Doppler Effect
an apparent change in frequency due to relative motion.
e.g. firetruck siren

standing wave

two identical waves
traveling in opposite directions.



Diffraction wave bends around an obstacle or through an opening

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