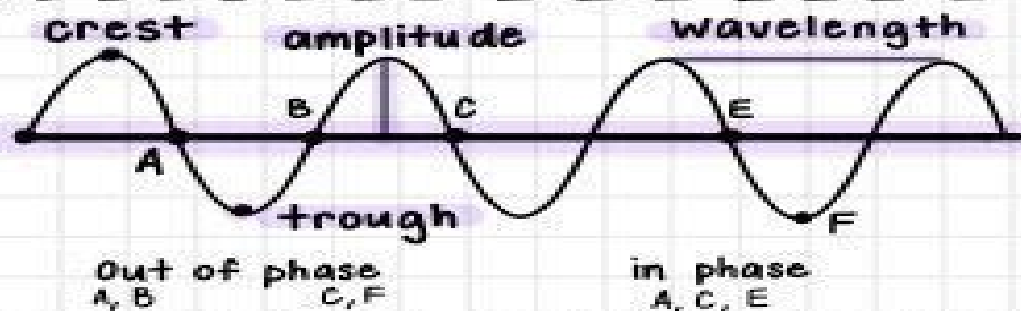




# Waves

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.

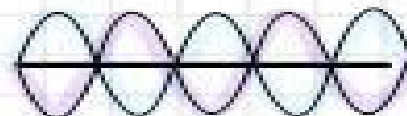
**Electromagnetic waves** do not require a medium to travel through.

**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

# Middle School Physics Study Guide

**LM Reder**



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