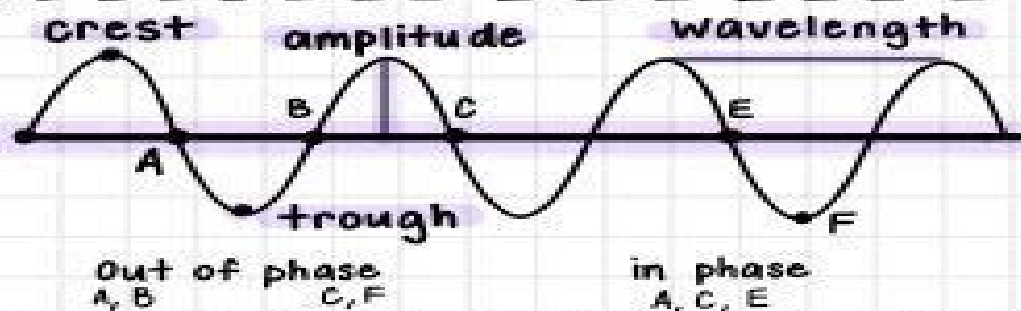




Waves

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.

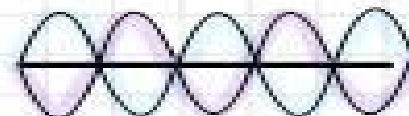
Electromagnetic waves do not require a medium to travel through.

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

B Lingard



Middle School Physics Study Guide:

Unveiling the Magic of Words: A Report on "**Middle School Physics Study Guide**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Middle School Physics Study Guide**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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