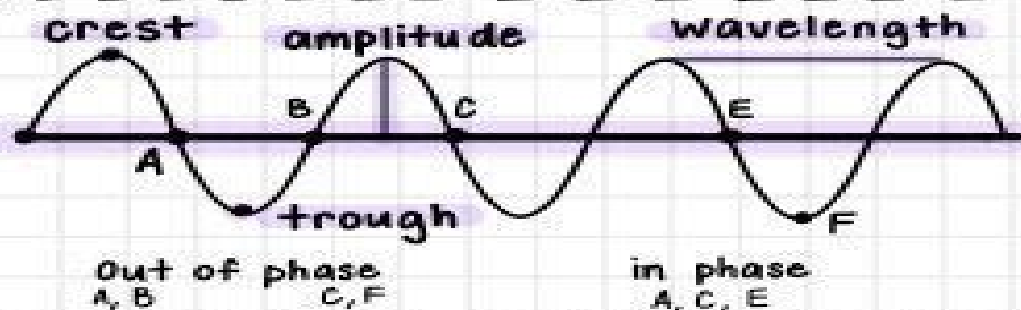




Waves

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.

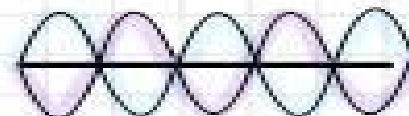
Electromagnetic waves do not require a medium to travel through.

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

Guillaume Favre



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Resources in Education ,1984 Home and School Reading and Study Guides Donna M. Lusardi,Rosemarie Kent,2007 **Science Curriculum Resource Handbook** ,1992 *Library of Congress Catalog: Motion Pictures and Filmstrips* Library of Congress,1968 *El-Hi Textbooks and Serials in Print* ,2006 Home and School Reading and Study Guides ,1996 *Books and Pamphlets, Including Serials and Contributions to Periodicals* Library of Congress. Copyright Office,1974 **Video Rating Guide for Libraries** ,1993 **Subject Guide to Books in Print** ,1997 **Forthcoming Books** Rose Army,2003-04 *Willing's Press Guide* ,1994 A guide to the press of the United Kingdom and to the principal publications of Europe Australia the Far East Gulf States and the U S A Resources in Education ,1996 *Catalog of Copyright Entries, Third Series* Library of Congress. Copyright Office,1975 The record of each copyright registration listed in the Catalog includes a description of the work copyrighted and data relating to the copyright claim the name of the copyright claimant as given in the application for registration the copyright date the copyright registration number etc The Cumulative Book Index ,1991 A world list of books in the English language *Biology/science Materials* Carolina Biological Supply Company,1991 *Children's Books in Print* R R Bowker Publishing,Bowker,1999-12 *ERIC Educational Documents Index* Educational Resources Information Center (U.S.),1966 A subject author institution index which provides titles and accession numbers to the document and report literature that was announced in the monthly issues of Resources in education earlier called Research in education National Union Catalog ,1981 Includes entries for maps and atlases

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