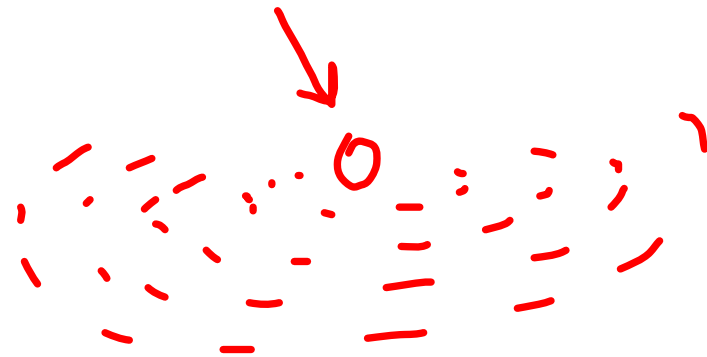


Waves Intro

Waves Intro: what it is...

C-notes

A wave is a disturbance caused by a force
Example: you drop a pebble in water, a wave is formed



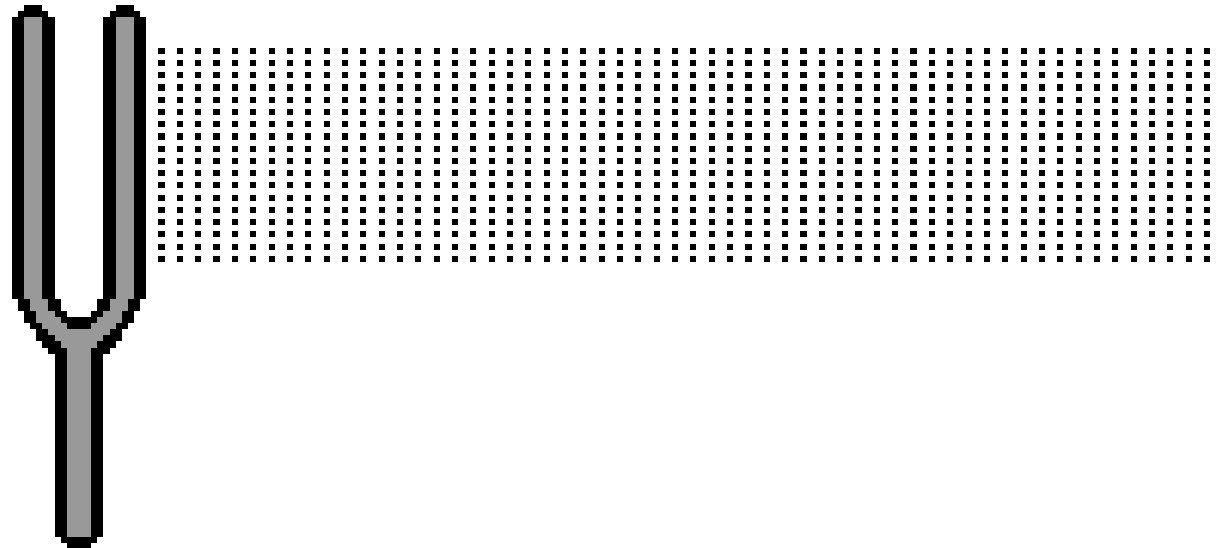
Waves: What do they do?

Waves transfer

ENERGY

The molecules of the
MEDIUM do NOT

Move to another place...



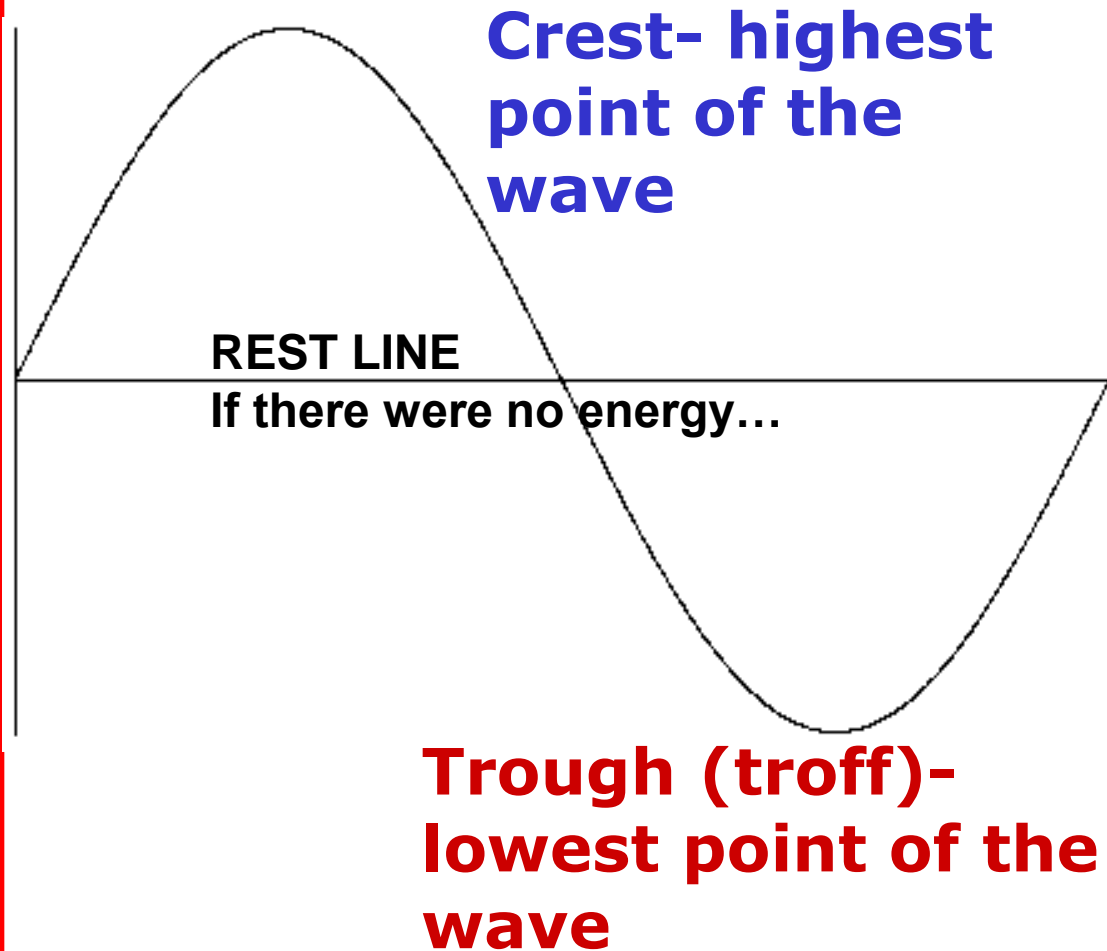
Waves Intro: Causes & Examples

C-notes

- a) Water waves...caused by wind (some by Earthquakes- tsunami)
- b) Ground shakes because pressure is released (EARTHQUAKE)
- c) You hit something it vibrates making a sound. Sound moves in waves

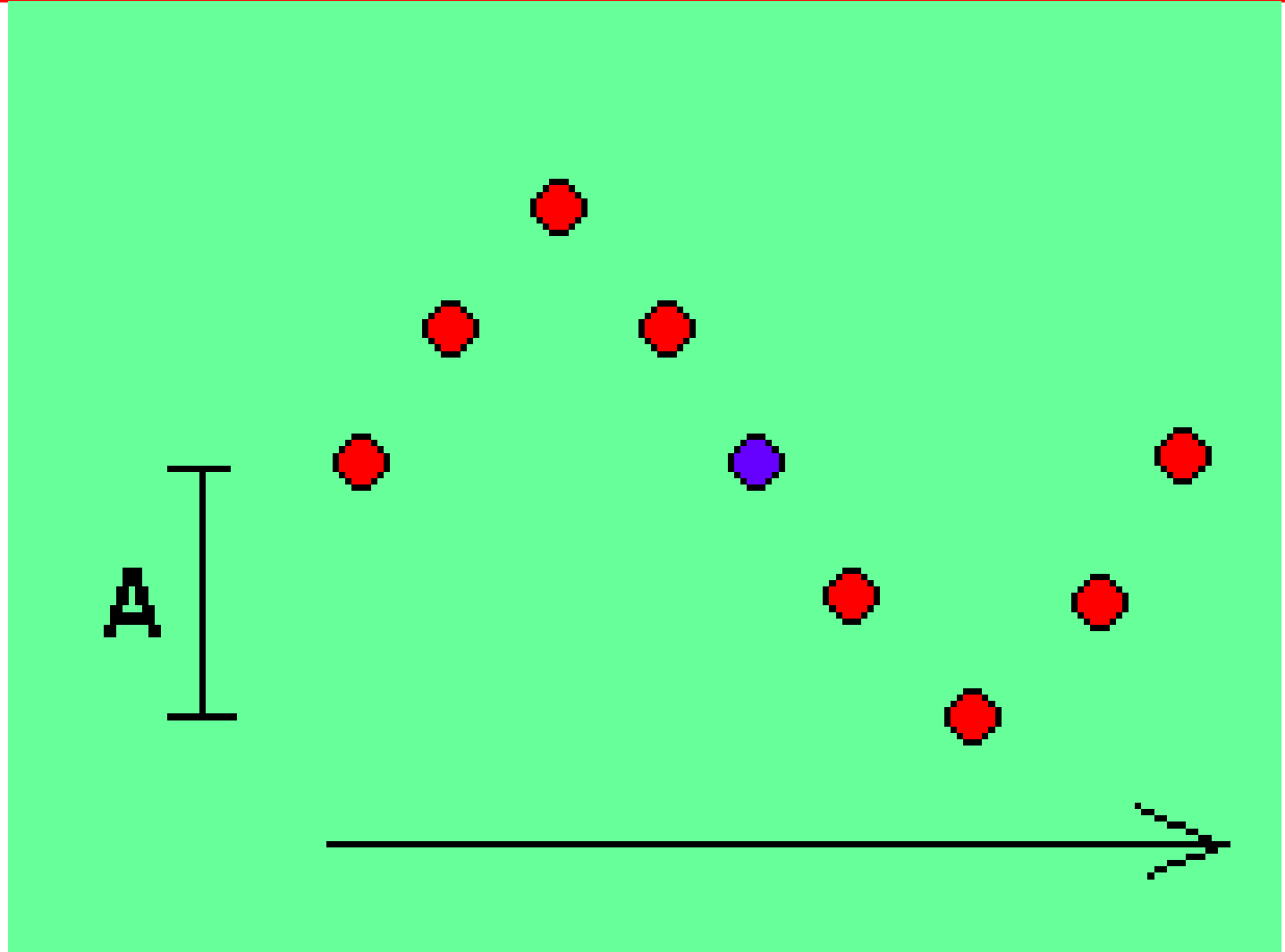
Parts of a Transverse wave

C-notes



Parts of a Transverse wave

C-notes



Waves Intro:

Types of waves

C-notes

There are two types of waves:
Mechanical and
Electromagnetic

Waves Intro: Mechanical

C-notes

Mechanical waves are waves that move in MATTER.

If there is no "MATTER"; there is no movement

MEDIUM- is any type of matter that mechanical waves move in

Mechanical Wave: An example

C-notes

- Sound is an example of a mechanical wave.
- Sound is produced by vibrations
- The energy from the vibration moves in waves
- Sound can **ONLY** travel if there is a medium

Waves Intro: Electromagnetic

C-notes

Electromagnetic waves can move through “empty” space.

A place with little or no molecules is called a vacuum