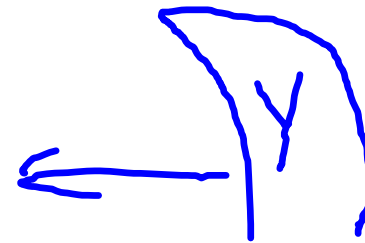
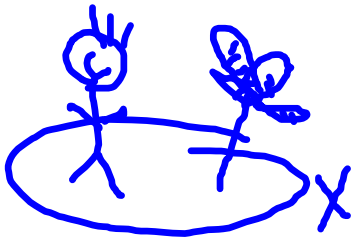


Waves

def-- rhythmic disturbance that transfers energy through a medium or space

Medium - matter through which a wave travels




Types of waves

Compressional (longitudinal)

def- waves move parallel
to direction of wave

compression rarefaction

example  **sound**

Transverse

def- waves move \perp
to direction of wave

Sine wave 

example **light / water**

part
(of wave)

transverse

compressional

amplitude

distance
from crest to crest

Amount of
compression

wavelength

|crest|trough

|compression|
|rarefaction

frequency

crest/sec

Compression/sec

velocity

$$v = \lambda \cdot f$$

$$v = \lambda \cdot f$$