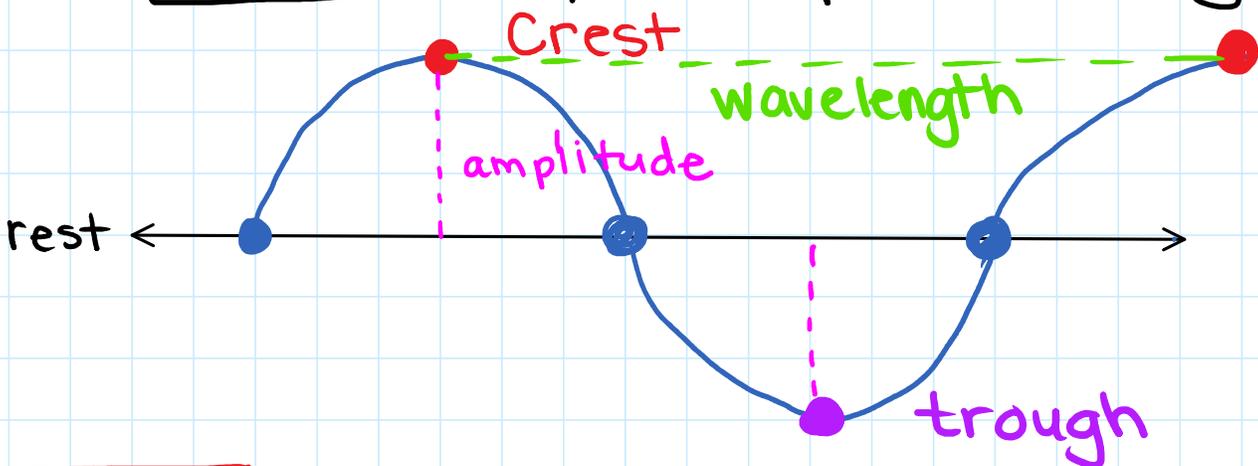(air, rocks, water)

Waves travel <u>through</u> ↑
they do not <u>move</u> them

- A |wave| transfers energy through space without causing "permanent displacement"

- |energy| is the capacity to apply force over a distance

- |force| is a push or pull on an object

rest

Crest

wavelength

amplitude

trough

|crest| highest point on a wave
|trough| lowest point on a wave
|wavelength| distance from crest to crest (or trough to trough)
|amplitude| height of a crest (or depth of a trough) from rest position

- |Frequency| is the number of motions in a given time. It is measured in |Hertz (Hz)|
⊛ the shorter the wavelength,

the greater the frequency.

- Two types of waves
  ① Transverse : move up and
                      down
  ② Compression : move back and
                        forth