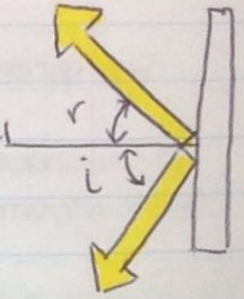


BEHAVIOR OF WAVES

Law of Reflection - the angle of incidence (i) of a wave is always equal to the angle of reflection.



Reflection - occurs when a wave strikes an object and bounces off it - all types of waves can be reflected (ex. sound, water, & light)



Refraction - bending of a wave caused by a change in its speed as it moves from one medium to another.

Pencil in water looks broken due to refraction

* The greater the change in speed the more the wave bends.

Diffraction - an object causes a wave to change direction and bend toward it.

* Both refraction and diffraction cause waves to bend however, refraction occurs when waves pass through an object while diffraction occurs when waves pass around an object.

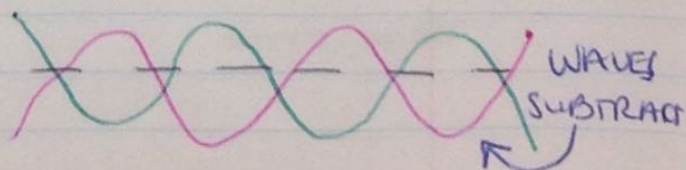
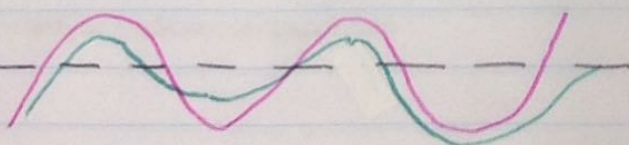
Interference - when two or more waves overlap and combine to form a new wave.

CONSTRUCTIVE

vs

DESTRUCTIVE

WAVES
ADD
→



WAVES
SUBTRACT
←