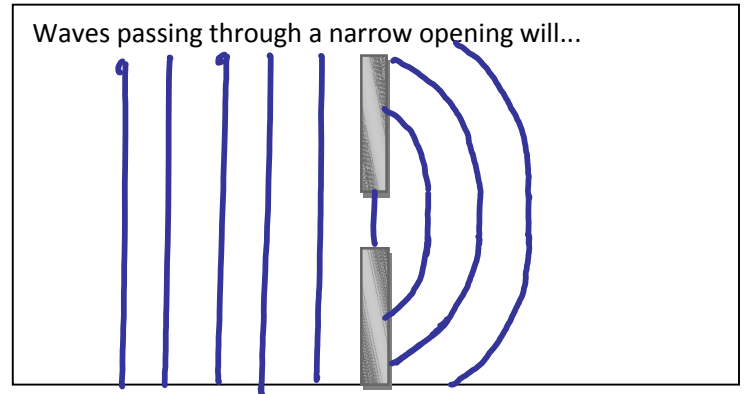
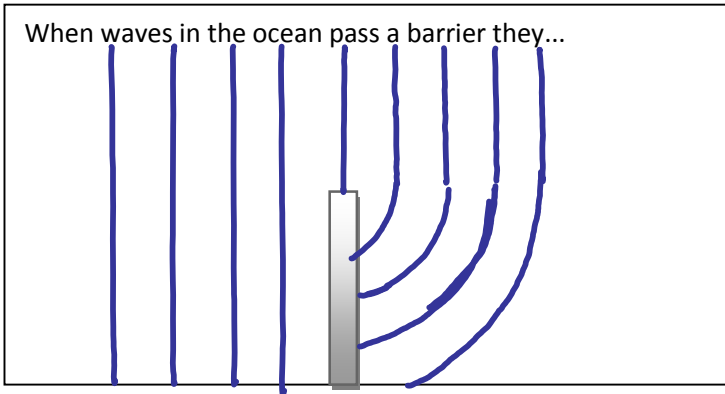


Unit 8: Waves

6 – Diffraction



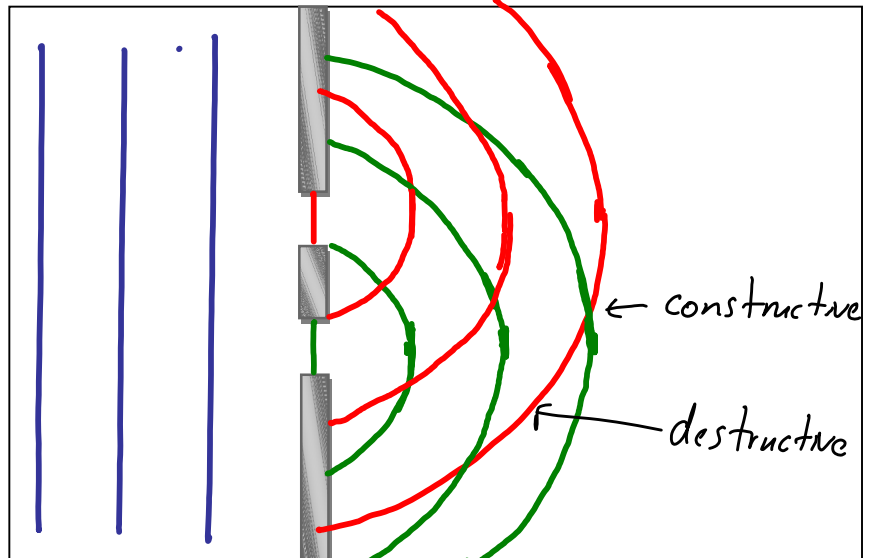
Diffraction:

Diffraction can be affected by:

- Wave speed: *faster waves diffract less*
- Wavelength: *shorter waves diffract less*
- Opening Size: *smaller openings diffract more*

When two crests meet we see constructive interference and an anti-node.

When a crest meets a trough we see destructive interference and a node.



- Rays of light travel as transverse waves.
- Normal light is unpolarized, meaning that it travels in all planes.

Polarization *filtering of light so that it can travel in only one plane.*

Polarization

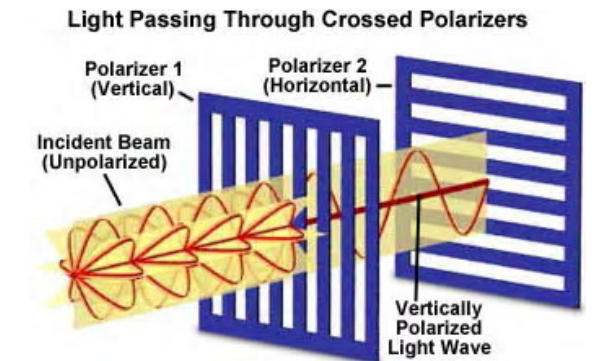
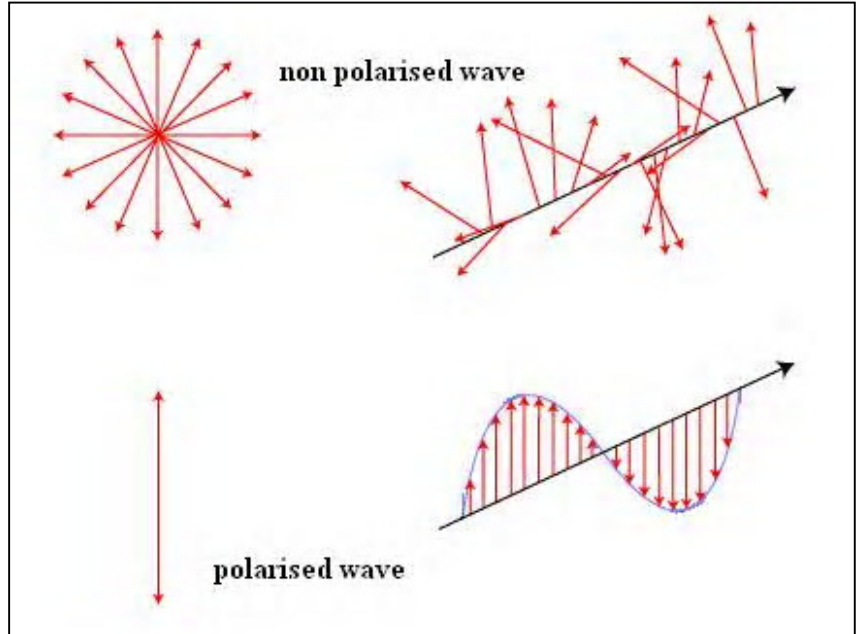


Figure 1