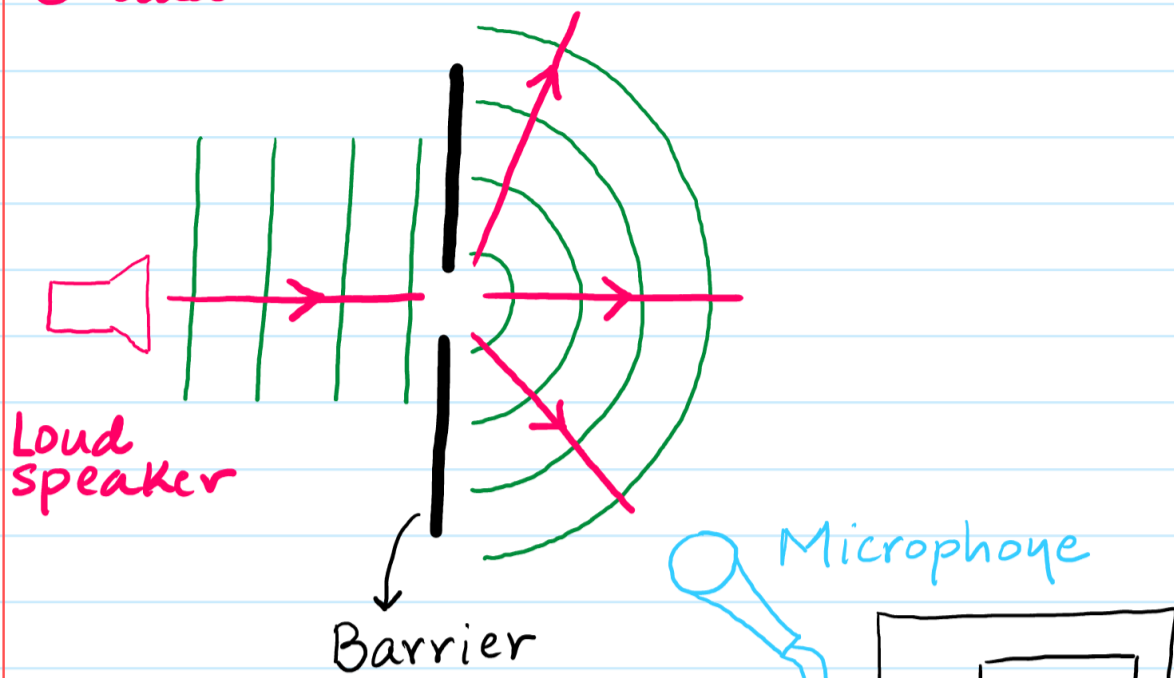


Exp. to show diffraction of Sound waves



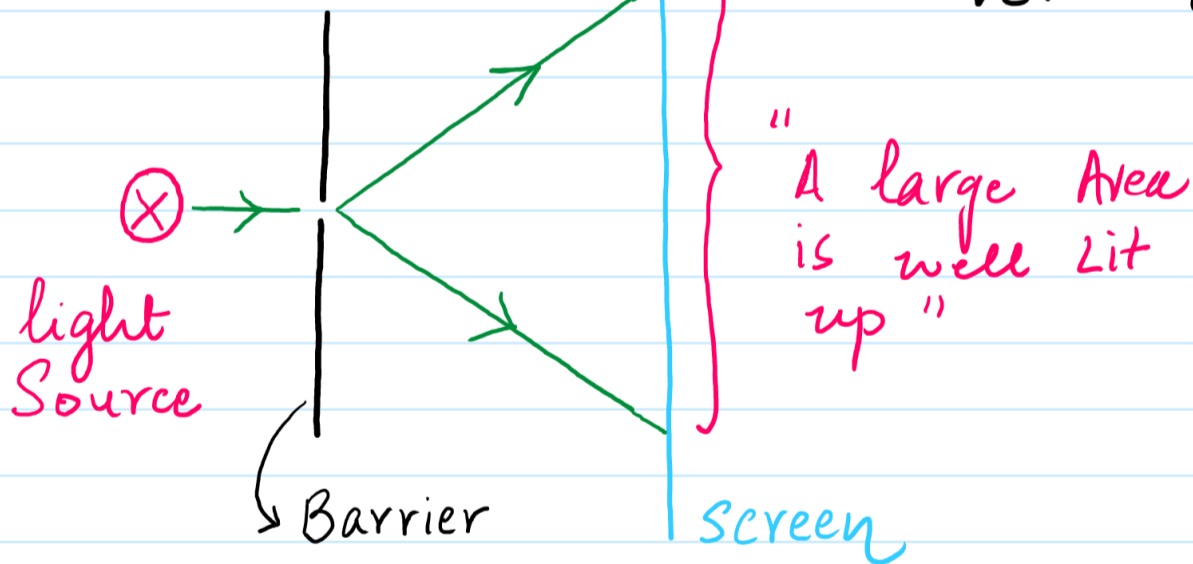
Apparatus

- Loudspeaker
- Receiver (microphone + C.R.O)
- Barrier with an opening (Size of the opening approx 0.5m (approximately equal to the wavelength of Sound waves)).

Precaution Sound proof Room

Observation :: A waveform is displayed on the screen of C.R.O indicating that Sound undergoes diffraction

② Experiment to show diffraction of light waves "Simplified Version"



Apparatus

- Lamp / Light Source
- Screen

Barrier with a much smaller gap (smaller than previous diagram) b/c  $\lambda$  Light is less than  $\lambda$  sound.  
gap (few cm or few mm)

Observation :: A large area on the screen is "LIT UP" indicating spreading of Light waves

END.