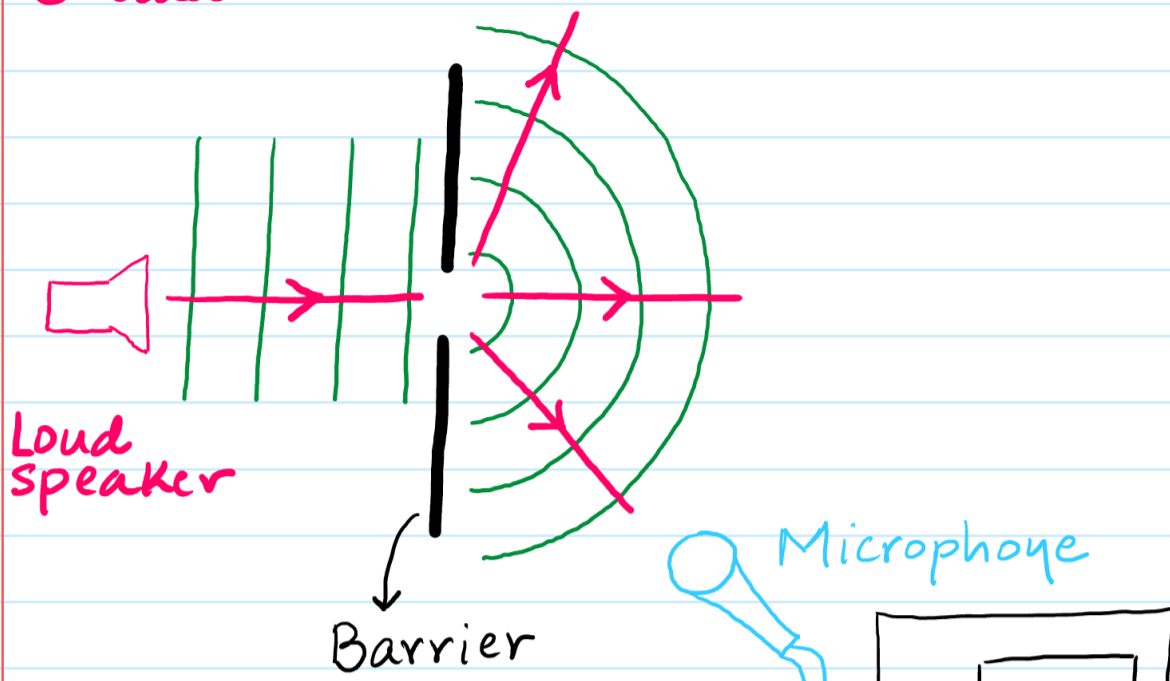


Exp. to show diffraction of Sound waves



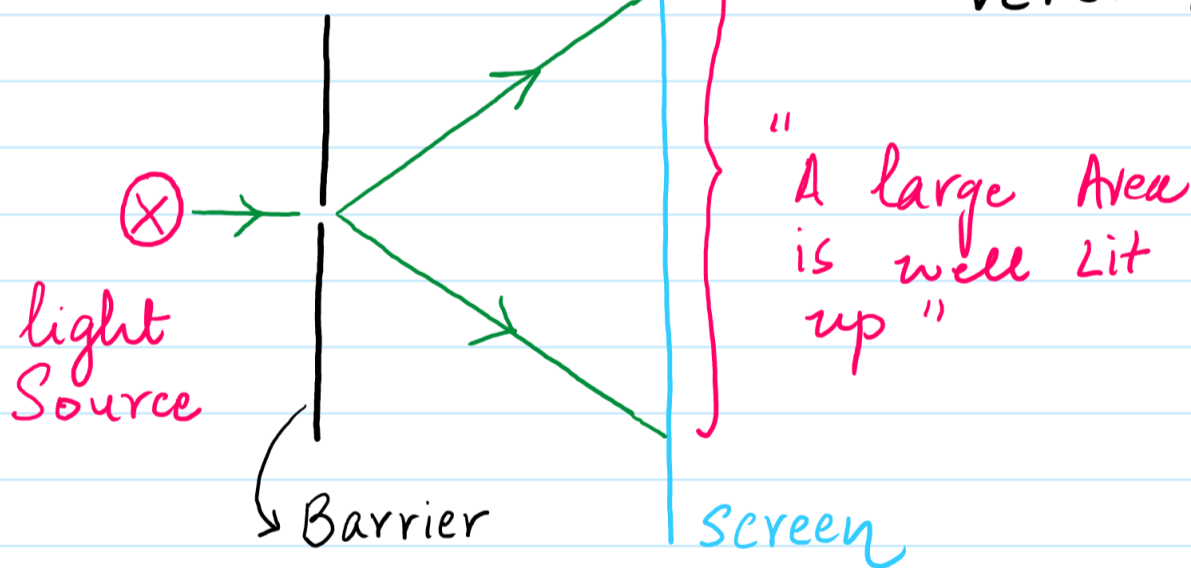
Apparatus

- 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 "Simplified Version" of light waves diffraction



Apparatus

- Lamp / Light Source
- Screen

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

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