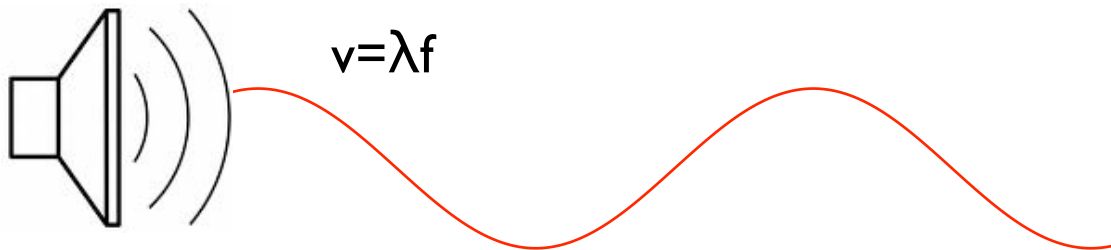




Standing Waves

- ▶ The speed of a wave is the product of the wavelength and the frequency of the wave
- ▶ By applying a controlled source of sound to a speaker you can generate a wave of a known frequency



- ▶ Standing waves produce a resonant enhancement of the sound in a pipe when the pipe length and sound wavelength have a certain relationship: Standing waves in a pipe must have a node (zero displacement) at the closed end of the pipe and an anti-node (maximum displacement) at the open end of the pipe

