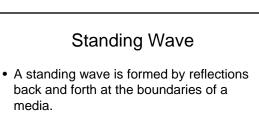
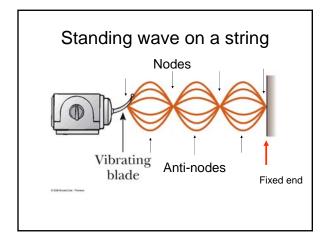


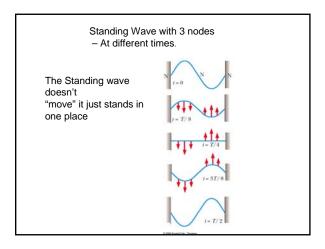
Standing Waves

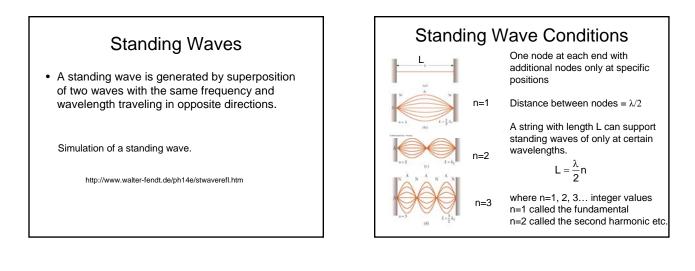
Standing waves (waves on a string) Standing waves in air columns.

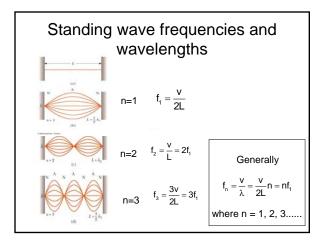


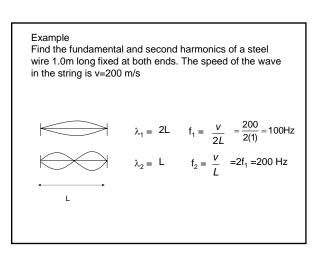
- The standing wave does not carry energy but serves to store energy.
- The standing wave stores energy of waves with specific wavelengths.

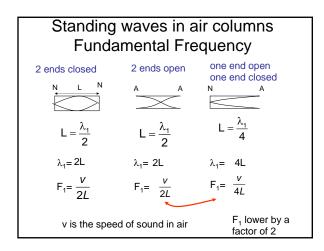


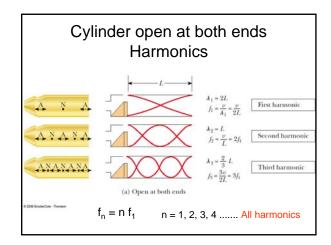


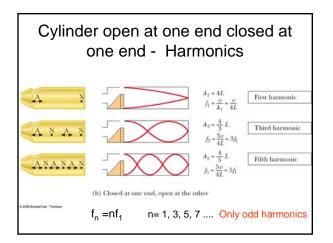


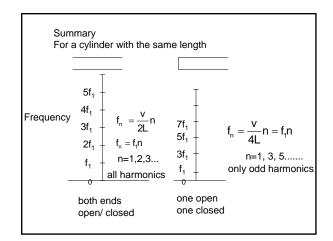


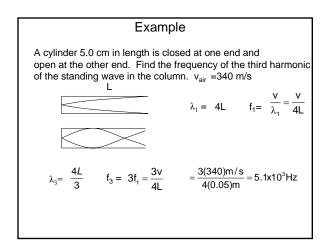


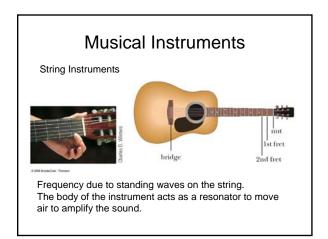


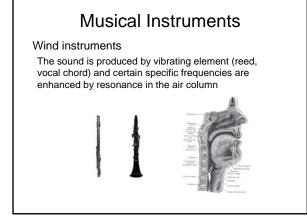


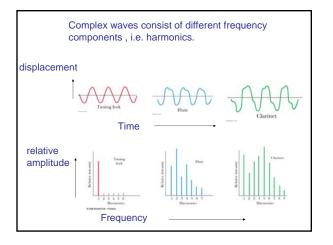












Complex waves

- In general sound waves are a combination of different frequencies.
- The superposition of waves with different frequencies gives rise to the characteristic quality (timbre) of the sound.
- The different frequencies can be determined by mathematical procedure called a Fourier Transform.