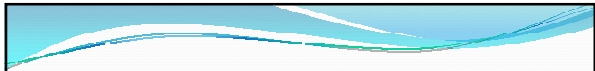




Waves & wave properties

Laboratory Follow-up



- Draw a transverse wave and label it with as many characteristics as you can



Describing a wave...

- Amplitude
- Wavelength
- Period
- Frequency
- Speed
- [Characteristics clip](#)

Types of waves

- Transverse
- Longitudinal
- Circular

Wave properties

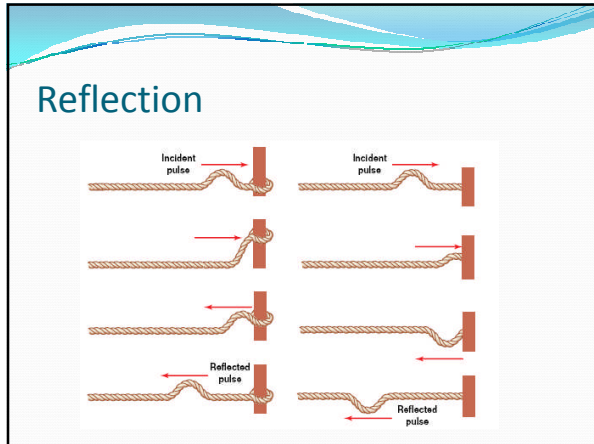
- Linear propagation
- Reflection
- Refraction
- Diffraction
- Interference

Linear Propagation

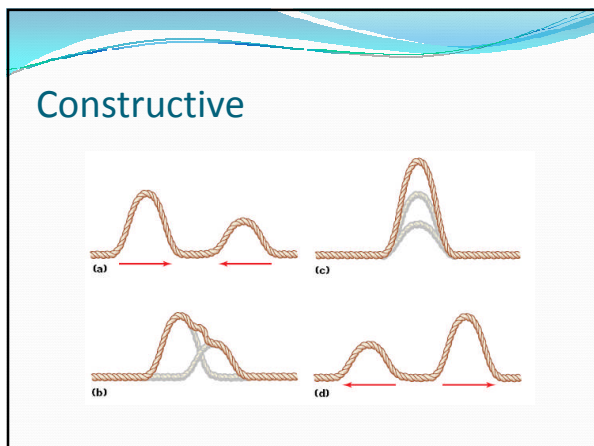
(a)

(b)

(a)







Destructive

Standing waves

- Animation
- Nodes, Antinodes
- Wavelengths
- Harmonics

Harmonic Series

	$\lambda_1 = 2L$	f_1	fundamental frequency, or first harmonic
	$\lambda_2 = L$	$f_2 = 2f_1$	second harmonic
	$\lambda_3 = \frac{2}{3}L$	$f_3 = 3f_1$	third harmonic
	$\lambda_4 = \frac{1}{2}L$	$f_4 = 4f_1$	fourth harmonic
