

Waves

Wave on a rope

- Transverse (side-to-side) wave
- Wave travels, rope wiggles
- Amplitude
- Wavelength
- Wave speed
- Restoring force

Wave speed (tubing)

- Restoring force & wave speed
- Stiffer the material, faster the wave

Compression wave (slinky)

- Compression wave

Kinds of waves

- Water waves
- Sound (in air)
- Earthquakes
- Sound in water or metal
- Waves in the sun

Wave motion (wave tank)

- Diffraction